Supreme Court of Nevada ADMINISTRATIVE OFFICE OF THE COURTS

ROBIN SWEET Director and State Court Administrator

JOHN MCCORMICK Assistant Court Administrator Judicial Programs and Services



RICHARD A. STEFANI Deputy Director Information Technology

VERISE V. CAMPBELL
Deputy Director
Foreclosure Mediation

MEETING NOTICE AND AGENDA

Committee to Study Evidence-Based Pretrial Release VIDEOCONFERENCE

Date and Time of Meeting: Friday, January 08, 2016 @ 1:30 p.m.

Place of Meeting:

Carson City	Las Vegas	
Supreme Court Courtroom	Regional Justice Center	
201 S. Carson Street	Supreme Court Courtroom	
Carson City, Nevada	200 Lewis Avenue	
-	Las Vegas, Nevada	
Teleconference Access: 1-877-336-1829, passcode 2469586		

AGENDA

- I. Call to Order
 - a. Call of Roll
 - b. Approval of 12-03-15 Meeting Summary * (**Tab 1**)
 - c. Opening Remarks
 - d. Public Comment
- II. Guest Speaker Presentations Ms. Lori Eville and Mr. Spurgeon "Kenny" Kennedy, *National Institute of Corrections* (**Tab 2**)
- III. Pilot Sites Discussion
 - a. Overview
 - b. Measuring What Matters: Outcome and Performance Measures for the Pretrial Services Field (Tab 3)
 - c. Risk Assessment Tools Review and Preferences Discussion
 - Kentucky (Tab 4)
 - Virginia (**Tab 5**)
 - Ohio (**Tab 6**)
 - Arizona (**Tab 7**)
 - District of Columbia/Federal PTRA (Tab 8)
 - d. Technology and Integration Concerns
- IV. Next Meeting Date: TBD
- V. Public Comment

Supreme Court Building ♦ 201 South Carson Street, Suite 250 ♦ Carson City, Nevada 89701 ♦ (775) 684-1700 • Fax (775) 684-1723

VI. Adjournment

- Action items are noted by * and typically include review, approval, denial, and/or postponement of specific items. Certain items may be referred to a
 subcommittee for additional review and action.
- Agenda items may be taken out of order at the discretion of the Chair in order to accommodate persons appearing before the Commission and/or to aid
 in the time efficiency of the meeting.
- If members of the public participate in the meeting, they must identify themselves when requested. Public comment is welcomed by the Commission but may be limited at the discretion of the Chair.
- The Commission is pleased to provide reasonable accommodations for members of the public who are disabled and wish to attend the meeting. If assistance is required, please notify Commission staff by phone or by email no later than two working days prior to the meeting, as follows: Jamie Gradick, (775) 687-9808 email: jgradick@nvcourts.nv.gov
- This meeting is exempt from the Nevada Open Meeting Law (NRS 241.030)
- At the discretion of the Chair, topics related to the administration of justice, judicial personnel, and judicial matters that are of a confidential nature may be closed to the public.
- Notice of this meeting was posted in the following locations: Nevada Supreme Court website: www.nevadajudiciary.us; Carson City: Supreme Court Building, Administrative Office of the Courts, 201 South Carson Street; Las Vegas: Regional Justice Center, 200 Lewis Avenue, 17th Floor.

TAB 1

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JUDICIAL COUNCIL OF THE STATE OF NEVADA

"To unite and promote Nevada's judiciary as an equal, independent and effective branch of government."

Committee to Study Evidence-Based Pretrial Release

Summary Prepared by Raquel Rodriguez and Jamie Gradick
December 03, 2015
1:30p.m. – 4:46 p.m.
Videoconference (Carson City, Las Vegas)

Members Present

Chief Justice James Hardesty, Chair Assemblyman Elliot Anderson

Judge Stephen Bishop

Jeremy Bosler Heather Condon Kowan Connolly Judge Gene Drakulich

Tad Fletcher

Joey Orduna Hastings Judge Douglas Herndon

Chris Hicks

Judge Kevin Higgins Judge Bita Khamsi

Phil Kohn

Judge Victor Miller Judge Michael Montero Judge Scott Pearson Judge Thomas Perkins Judge Melissa Saragosa Judge Elliott Sattler
Judge Mason Simons
Judge John Tatro
Judge Alan Tiras
Judge Ryan Toone
Judge Natalie Tyrrell
Anna Vasquez
Jeff Wells
Steven Wolfson

Guests

Kim Kampling

Dana Hlavac as proxy for Judge Kerns

Sandy Molina Ryan Sullivan **AOC Staff**

Jamie Gradick Stephanie Heying John McCormick

- I. Call to Order
 - Chief Justice Hardesty called the meeting to order at 1:30 p.m.
- II. Call of Roll
 - Ms. Gradick called roll; a quorum was present.
- III. Public Comment
 - There was no public comment.
- IV. Guest Speaker Presentations:
 - Chief Justice Hardesty asked Magistrate Judge Peggy Leen and Ms. Shiela Atkins to present to the Committee and thanked them for their availability.

- Magistrate Judge Leen provided a brief background to the Commission and provided a brief overview of the Federal Bail Reform Act which is a national standard by which all federal courts operate.
- The purpose of Congress in passing the Federal Bail Reform Act of 1984 was to address the alarming problem of individuals who committed offenses while on release.
- The primary two things the Federal Bail Reform act accomplished were to prohibit excessive monetary bail as an impediment for pretrial release and to authorize preventative detention.
- Federal courts now decide on who should be released, under what conditions they will be released, and if the individual is a serious flight risk, a danger to the community, the court has the authority to detain without bail.
- The federal courts decide which conditions or combination of conditions an individual will be released with and will reasonably assure the person will appear in court when required and not reoffend.
- Magistrate Judge Leen stated in her district an individual is rarely released on cash bond.
 Money is not the dependent factor for who is released and who is detained.
- An individual who is arrested or brought into federal custody will almost always be brought in for a preliminary hearing the same day, where they are appointed an attorney, reminded of their rights, given an opportunity to review their charges and are provided a decision from the court stating whether or not they are moving towards detaining the individual and if so, informed on which conditions would apply.
- Considerations taken into account to make the final decision are the Federal Bail Reform Act, statutory factors, the nature of the offense charge, personal characteristics of the accused individual, and the weight of the evidence.
- If the court decided to detain an individual the written detention order is entered and the person is notified on the record of the reasons the court has decided to detain that individual. If the individual is released they sign the bond paperwork and are released once they have been processed.
- Typical conditions of release require pretrial services to supervise the individual.
 Supervision requires drug or alcohol testing and/or mental health assessments and treatments, it may include verifying the individual is maintaining employment and residence, or GPS monitoring of an individual.
- There was a question regarding how drug and alcohol test and other treatments and
 assessments for supervising conditions were paid for. Magistrate Judge Leen stated payment
 was based on an individual's ability to pay, if the person could not pay, pretrial services
 would pay the expenses for the testing.
- An individual may be under supervision for three years or more, but on average an individual will remain under supervision for about one year.
- There was a question regarding how recommendations regarding supervision and release were assessed. Ms. Atkins stated in the national system a Pretrial Services Risk Assessment Tool has been used since 2009. Marie Van Ostrom, a pretrial services researcher, developed the tool.
- Ms. Atkins would forward links for articles written by Ms. Van Ostrom regarding legal and evidence- based practices for pretrial services to the Committee; Chief Justice Hardesty asked Ms. Atkins to provide a copy of the risk assessment tool, the interview worksheet, and a blank copy of the detention recommendation form to the Committee.
- Chief Justice Hardesty asked what validation was in place for the risk assessment tool. Ms.
 Atkins stated the tool had been validated twice since 2007 through researchers from the Administrative Office of U.S. Courts, the Federal Judicial Center, and the Federal Courts.
- The following questions are asked in the risk assessment tool:
 - ☐ The number of felony convictions
 - ☐ The number of prior failure to appear violations

The number of pending felonies or misdemeanors
The current risk offense type
The class of offense
The age of the defendant at the interview
The highest education level
Employment status
Residential status
Current drug problems
Citizenship status

- Chief Justice Hardesty asked Mr. Jeffrey Clayton, National Policy Director for the American Bail Coalition, to provide his presentation to the Committee. (See meeting materials packet for PowerPoint)
 - Mr. Clayton thanked the Committee for their time and provided a brief work history and background.
 - Mr. Clayton clarified a few assumptions individuals have about bail which includes the thought that 60% of all people, nationally, are "indigent" and cannot afford bail. There are at least ten other reasons which have been identified that explain why an individual would be in jail within bail that has been set but is not posted.
 - Mr. Clayton stated if studies are not conducted for the jails regarding their population inquiring who is there and what offenses were committed, only assumptions will be made in regards to correct information about the jail population.
 - A study conducted by the ACLU in the Los Angeles county jail found there were 10,545 pretrial indigents in the Los Angeles County Jail who were eligible for bail. The concept that masses of individuals sit in jail for extended periods of time was found to be largely false when one considers additional reasons for why an individual cannot post bail, such as: sentences for prior crimes, outstanding warrants, violent crimes, and high security crimes.
 - Although a bond may not be posted for an individual that does not mean the person could not afford their bail.
 - Chief Justice Hardesty asked Mr. Clayton to provide to the Committee other areas that should be tested to examine the reasons for when an individual is in jail with a no bail hold or has no bail; the information would be helpful once surveys are conducted in Nevada's jails.
 - Chief Justice Hardesty asked what the usual cost of bail is and what additional fees or charges are applied to an individual for bail. He also asked for more information regarding sliding scales for bails and information for how costs are determined.
 - Mr. Clayton would provide information to the Committee once he learned more regarding multiple bail charges based on a person's multiple criminal charges.
 - Mr. Clayton addressed risk assessment tools stating limitations of the tool include not being able to scientifically validate how to set bail and the tools do not help identify what will mitigate the risk presented. Risk assessment tools ask if there have been prior felonies but do not ask what the prior felonies were; the use of demographic factors for sentencing and for setting bail would be topics to consider.
 - Mr. Clayton stated that interviewing individuals before setting bail slows down the process and suggested that Committee think about what would happen be if a defendant challenged the validity of the risk assessment tool.
 - Mr. Clayton stated there are studies that support that surety bonds are effective. If an individual may be released on recognizance, they should not be put on bond.
 - Mr. Clayton referenced a study conducted by the *Journal of Law and Economics* from the University of Chicago which states "defendants released on a surety bond are 28% less

- likely to fail to appear." Mr. Clayton referenced other studies which support financial conditions for release.
- Mr. Clayton discussed revenues raised for the State by bond forfeiture; it's about finding a balance.
- Discussion was held regarding bail timelines and due process as a "cure" for constitutional time concerns regarding bail. Best practices are not always practical; bail schedules are necessary in those instances.
- Mr. Clayton suggested that bail reform should be addressed at the local level. Judicial discretion is key in bail decisions and in bail reform discussion; support giving judges more information but bail is a "tool" judges need to have access to.
- Mr. Clayton discussed concerns regarding indigent defendants. Moving to supervision-based model doesn't alleviate the problem; if an indigent defendant cannot afford bail, he/she cannot afford supervision costs. There are also concerns regarding creating a "debtor's prison" scenario or placing additional financial strain on counties.
- Chief Justice Hardesty asked Mr. Stephen Krimel with the Nevada Bail Agents' Association to deliver his presentation to those in attendance. (See meeting materials packet for PowerPoint)
 - Mr. Krimel introduced himself and provided a brief background on his experience in the bail industry.
 - Mr. Krimel addressed a series of bail system/bail reform studies and explained that the role of surety bail is and has been greatly misunderstood. The OR system is flawed and doesn't function as intended. Rather than benefiting indigents, the system resulted in benefiting "wealthy" defendants while providing no aid to indigents. Definitions being used (California's AB 2) were inaccurate and led to misinterpretation, misunderstandings, and misapplication.
 - Mr. Krimel discussed the question of "projecting into the future" in terms of potential for reoffending and recidivism is not one that courts give much respect to. CA Supreme Court in a 1981 case said that predictions of future behavior are "erroneous" and "unreliable." FTA is not something that can be easily predicted.
 - Mr. Krimel informed attendees that a records review of his bail bond company showed that, out of 541 bonds, only 41 failed to appear - 26 of those were exonerated, 3 reinstated and 2 are serving time. Gross FTA rate is 7.58%. There is no "matrix" or tool to ensure appearance or improve risk assessment.
 - Mr. Krimel discussed the importance of family integration into the bail bond process and the "support structure" that becomes essential, particularly for indigent defendants the use of this, the use of credit, and the willingness to waive collateral all lead to a low FTA rate; there are ways to do it successfully. Many in the industry are already following "best practices" to work with and benefit the defendant but because the industry has generally been left out of the discussions, the roles it plays aren't acknowledged.
 - Assemblyman Anderson asked whether there is data available on how many clients can and cannot afford the bail. Discussion was held regarding "myth" that clients are "turned down" because they can't afford bail; denial usually based upon safety factors rather than ability to pay. Mr. Krimel will work on gathering data on how many people are turned down for bail and why and will supply this and the tools his companies use when making these determinations to the Committee.
 - Discussion was held regarding states that have eliminated surety bail systems." Mr. Krimel explained that, while Kentucky "claims" to have done so, there are "bail kiosks" in the jails there for credit card/cash bail. Discussion was held regarding cash bail versus surety bail.
 - Discussion was held regarding the "handling fee" and what factors go into determining this. Each bond posted in Nevada results in a \$50 fee to the jail. Agencies charge 15% fee (set by legislature) to issue bond; no late fees or interest charges because they are "not lending institutions." Discussion was held regarding what happens to the fee when a court

voids a bond; Mr. Krimel explained that once a defendant leaves penal facility, the premium is "fully earned." Most agencies can/will issue a bond "rewrite" and give the client credit for the any premium already paid in those instances where a court changes the bond. If defendant hasn't been released yet, then it's not a consummated bond - the risk has not been created yet and the bond can likely be voided but the agency still has to pay the insurance company back from associated costs.

Chief Justice Hardesty thanked Mr. Clayton and Mr. Krimel for their presentations and
reiterated that the Committee does not have a predetermined outcome and is making an
objective effort to determine what is in the best interests of the State judiciary regarding
pretrial release; the Committee has never said or suggested that bail or financial conditions
should be eliminated.

V. Review of Risk Assessment Tools

- Chief Justice Hardesty reiterated that the purpose of implementing a tool is to provide judges with additional information when making pretrial release determinations. The Committee needs to determine what tool will function best in Nevada.
- Chief Justice Hardesty asked attendees to review and evaluate the tools provided in the meeting materials and come to the January 8th meeting ready to discuss the tools in depth in order to move towards making a selection.

VI. Pilot Site Program

- Chief Justice Hardesty informed attendees that he has asked courts in the largest jurisdictions and one rural court to participate in a pilot site program to test possible tools; the response of pilot site participants was favorable.
- Discussion was held regarding technology integrations and compatibility. The courts participating in the pilot site program will be bringing their respective IT to the table to start discussing how to make this work once a tool has been selected and integrated into the case management systems.
- Another critical issue is determining what data we need to be capturing and how to define that data. "FTA" for example, may have varying definitions among the courts and the players in the pretrial process. Chief Justice Hardesty suggested a "list" of information to capture be compiled; this will be discussed at the next meeting.
- Chief Justice Hardesty asked Committee members for feedback regarding what the Committee has learned thus far; taking all presentations and discussions into consideration, does the Committee still want to move forward?
 - Discussion was held regarding resources concerns; rural needs and resources will need to be considered as part of the process. Additionally, pretrial processes already in place will need to be re-evaluated and possibly changed in order to accommodate any reform.
 - Discussion was held regarding the need to identify why people are sitting in bail in order to determine if risk assessment would even be helpful; we need the bail statistics - how many individuals are in jail solely because they cannot make bail?
 - General consensus among Committee membership was to continue to move forward; concerns were expressed regarding providing sufficient information when caseloads (especially in Clark) are so heavy; how will a new process impact timing? What about possible constitutionality concerns associated with conducting interviews without defendants' attorneys present? How will this be implemented? Should come in with the probable cause review?
 - A suggestion was made that judges in other states already using some of these tools be invited to a future meeting - perhaps a judge from Maricopa County or Washington DC and a rural jurisdiction.

VI. Other Items/Discussion

• Discussion was held regarding indigency and chronic failure to appear; there are social dynamics that need to be part of the consideration.

VII. AdjournmentChief Justice Hardesty adjourned the meeting at 4:46 p.m.

TAB 2



Building a
Pretrial Justice
System

Elements of Effective Pretrial Programming: Overview



Session Goals

- ✓ Introduce the concepts of effective pretrial services systems and high functioning pretrial services agencies
- ✓ Prepare for active engagement in the development of proposals for the Indiana Pretrial Pilot Project



The Framework

Law

Organizational Theory

Standards

Research/EBPs



Guiding Principle of Decisions based on Risk

Goal:

To reasonably assure Community Safety and Court Appearance Maximize Release for appropriate defendants Provide legally permissible detention for truly risky defendants

Assumptions:

Most pretrial defendants present low to moderate risks of failure pretrial

Poor matching of supervision levels to risk levels may increase failure Poor detention decisions heighten the risk of future recidivism Low to moderate level conditions are effective in addressing risk



<u>Essential Elements of a Pretrial</u> <u>System</u>

- 1. Guiding principle of decisions based on risk
 - a) Appearance
 - b) Public Safety
- 2. Release options following arrest
 - a) Citation in lieu of arrest
 - b) Pre-arraignment release screening
 - c) Elimination of bond schedules
 - d) Diversion to non-criminal options
- 3. Statutory presumption of nonfinancial release and availability of detention without bail
- 4. Speedy prosecutorial case screening
- 5. Defense counsel at initial appearance



Essential Elements of a Pretrial Services Agency

- 6. Dedicated Pretrial Program
 - Operationalized Mission
- 7. Universal Screening
- 8. Validated Assessment Instruments
- 9. Sequential Bail Review
- 10. Risk-based Supervision
- 11. Performance measurement and Feedback



Recap

Element	Present	Missing	Improved
Dedicated Pretrial Services Program	•	•	•
Operationalized Mission	•	•	•
Universal Screening	•	•	•
Validated Assessment Instrument	•	•	•
Sequential Review of Release/Diversion Eligibility	•	•	•
Supervision to Match Risk	•	•	•
Performance Measurement	•	•	•





Building a
Pretrial Justice
System

Elements of Effective Pretrial Programming



The Framework

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Organizational Theory

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Effective Pretrial Systems



<u>Essential Elements of a Pretrial</u> <u>System</u>

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<u>Essential Elements of a Pretrial</u> <u>System</u>

- 6. Dedicated Pretrial Services Agency
 - 7. Universal Screening
 - 8. Risk assessment
 - 9. Sequential review of release/detention eligibility
 - 10. Risk-based supervision
 - 11. Performance measurement



Guiding Principle of Decisions based on Risk

Goal:

To reasonably assure Community Safety and Court Appearance Maximize Release for appropriate defendants Provide legally permissible detention for truly risky defendants

Assumptions:

Most pretrial defendants present low to moderate risks of failure pretrial

Poor matching of supervision levels to risk levels may increase failure Poor detention decisions heighten the risk of future recidivism Low to moderate level conditions are effective in addressing risk



Neither the Constitution nor our rules of criminal procedure permit a judge to base a pretrial release decision solely on the severity of the charged offense. Bail is not pretrial punishment and is not to be set solely on the basis of an accusation of a serious crime. As the United States Supreme Court has emphasized, "[t]o infer from the fact of indictment alone a need for bail in an unusually high amount is an arbitrary act." *Stack v. Boyle*, 342 U.S. at 6. (Rule 5-401) requires the judge to make an informed, individualized decision about each defendant and does not permit the judge to put a price tag on a person's pretrial liberty based solely on the charged offense.

State of New Mexico v. Brown No. 34,531. Decided: November 6, 2014



Release Options Following Arrest

The legal principle of release on the least restrictive conditions starts with the initial contact with law enforcement. High functioning jurisdictions use citation releases or summonses by law enforcement in lieu of custodial arrests for non-violent offenses when the individual's identity is confirmed and no reasonable cause exists to suggest the individual may be a risk to the community or miss the ensuing court date.



The Multnomah Example

Excluded:
Murder
Treason
Person crime w/
prior person
crime
3rd DUI
Weapons
Burg I
Sex Offender
Registry
Meth Man/Deal
(4,389/12%)

Arrest and Booking (35,965)

Release Eligible Defendants Screened by Recognizance Unit

Pre Initial Appearance ROR or Referral to Pretrial Supervision (13,289/37% of total) Defendant scores 0-9 on Recognizance Risk Assessment (4,935/14%)

> Traffic or Non-person Misdemeanor (8,355/23%)

> > Police and Recognizance Unit have override authority



Presumption of Nonfinancial Release/ Statutory Detention

- 1. State laws and local court rules stress the least restrictive conditions needed to ensure appearance and public safety. Non-financial release are the court's first option, followed by conditional supervision and financial conditions.
- 2. Money is used when non-financial options cannot reasonable assure court appearance. Statutes prohibit pretrial detention based on money.
- 3. Statutes include risk-based preventive detention. These procedures afford due process for defendants who pose unmanageable risks to public safety or are at high risk of failing to appear in court as well as a mechanism to detain those who cannot be released safely.



The D.C. Example

§ 23-1321. Release prior to trial.

- (a) Upon the appearance before a judicial officer of a person charged with an offense, other than murder in the first degree, murder in the second degree, or assault with intent to kill while armed, which shall be treated in accordance with the provisions of § 23-1325, the judicial officer shall issue an order that, pending trial, the person be:
 - (1) Released on personal recognizance or upon execution of an unsecured appearance bond under subsection (b) of this section;
 - (2) Released on a condition or combination of conditions under subsection (c) of this section;
 - (3) Temporarily detained to permit revocation of conditional release under § 23-1322;
 - (4) Detained under § 23-1322(b).



The D.C. Example

- (3) A judicial officer may not impose a financial condition under paragraph (1)(B)(xii) or (xiii) of this subsection to assure the safety of any other person or the community, but may impose such a financial condition to reasonably assure the defendant's presence at all court proceedings that does not result in the preventive detention of the person, except as provided in § 23-1322(b).
- (4) A person for whom conditions of release are imposed and who, after 24 hours from the time of the release hearing, continues to be detained as a result of inability to meet the conditions of release, shall upon application be entitled to have the conditions reviewed by the judicial officer who imposed them. Unless the conditions of release are amended and the person is thereupon released, on another condition or conditions, the judicial officer shall set forth in writing the reasons for requiring the conditions imposed.



Speedy Prosecutorial Case Screening

Jurisdictions should ensure that an experienced prosecutor screen criminal cases, preferably before initial court appearance.

- Early case screening allows for appropriate charging or timely dismissal as well as early diversion or problem-solving court eligibility determinations.
- Prosecutors can use the pretrial risk assessment instrument to aid in their bail arguments at the initial appearance, to include details needed to request preventive detention if available.



Defense Counsel at Initial Appearance

Defense counsel is engaged before initial appearance and is prepared to represent the defendant regarding pretrial release/detention.

- The U.S. Supreme Court has ruled in several opinions that the initial bail hearing is a critical stage in the criminal case because liberty is at stake.
 Therefore, this decision point requires legal representation.
- Defenders can use the pretrial risk assessment instrument to aid in their bail arguments at the initial appearance, to include offering rebuttal presumptions in cases where that is appropriate.



We have, for purposes of the right to counsel, pegged commencement to "the initiation of adversary judicial criminal proceedings—whether by way of formal charge, preliminary hearing, indictment, information, or arraignment," (United States v. Gouveia, 467 U. S. 180, 188 (1984) (quoting Kirby v. Illinois, 406 U. S. 682, 689 (1972) (plurality opinion)). The rule is not "mere formalism," but a recognition of the point at which "the government has committed itself to prosecute," "the adverse positions of government and defendant have solidified," and the accused "finds himself faced with the prosecutorial forces of organized society, and immersed in the intricacies of substantive and procedural criminal law." Kirby, supra, at 689.

We merely reaffirm what we have held before and what an overwhelming majority of American jurisdictions understand in practice: a criminal defendant's initial appearance before a judicial officer, where he learns the charge against him and his liberty is subject to restriction, marks the start of adversary judicial proceedings that trigger attachment of the Sixth Amendment right to counsel.

Rothgery v Gillespie County, 554 U.S. 191 (2008)

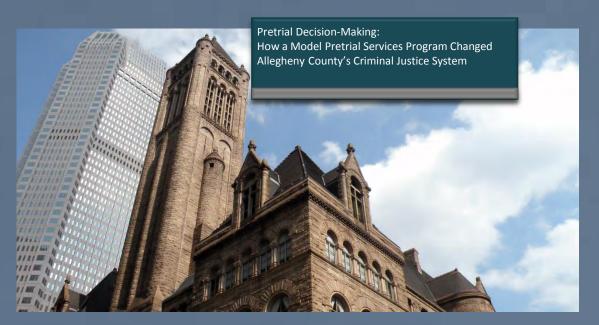


Dedicated Pretrial Services Agency

A dedicated pretrial services agency ensures that administration of essential functions occurs under a single organization goal and better coordination of these functions.

A single management structure also provides better staff direction and motivation to critical work priorities and clearer lines of communication. The justice system also has a single actor responsible for pretrial functions.





Within the first month after initiation of new pretrial practices in September 2007, the number of defendants processed through the Allegheny County Jail following preliminary arraignment decreased by 30 percent. Almost as quickly, Allegheny County's pretrial program went from outdated to exemplary; in fact, it is the only county-level program cited as a national model in an American Bar Association guide to pretrial release decision-making.

http://www.alleghenycounty.us/WorkArea/DownloadAsset.aspx?id=42084



Essential Elements of a Pretrial Services Agency

- 6. Dedicated Pretrial Program
 - Operationalized Mission
- 7. Universal Screening
- 8. Validated Assessment Instruments
- 9. Sequential Bail Review
- 10. Risk-based Supervision
- 11. Performance measurement and Feedback



Operationalized Mission

The mission statement identifies a program's desired outcomes, importance, and focus. It tells why the program is the best option to achieve the desired result.

- 1. Tells the world who you are, what you do, and why you're important.
- 2. Guides strategic and day-to-day operational decisions.
- 3. Provides a "brand" and focuses Leadership, Staff and Customers on goals and principles.
- 4. Clear leading message and principles for Management

Materials:

Beverly Goldberg, Creating Mission Statements For Smaller Groups -- A Statement Of Vision, Values, And Goals Improves Teamwork Peter C. Brinckerhoff, Mission-Based Management: Leading Your Not-for-Profit In the 21st Century



Operationalized Mission

Promote pretrial justice for defendants and minimize harm to the community.

Yamhill County, OR Pretrial Services



Mission

Strategic Goals

Strategic Objectives

Outcomes

Judicial Concurrence with PSA Recommendations

Continued Pretrial

Release

Risk-Based

Risk Assessment

Supervision

Appropriate Treatment

Effective Agency
Administration

Appearance

Safety

Continued Release

To promote pretrial justice and enhance community safety

Minimize Rearrest

Maximize Court Appearance



<u>Universal Screening</u>

Effective pretrial agencies screen for pretrial release consideration **all** defendants eligible for release by state statute and local court order. Programs do not exclude based on charge or other restriction not identified specifically by statute or local rule.



Universal Screening

- (a) Murder is not bailable when the proof is evident or the presumption strong. In all other cases, offenses are bailable.
- (b) A person charged with murder has the burden of proof that he should be admitted to bail.

Indiana Code § 35-33-8-2 : Murder; other offenses



Validated Assessment Instrument

Effective pretrial programs use validated assessment criteria to gauge individual defendant's suitability for release or detention pending trial. The assessment is empirically based—preferably using local research—to ensure that its factors are proven as the most predictive of future court appearance and rearrest pending trial. Separate instruments also may be used to predict the likelihood of new violent offenses, domestic violence charges, substance use disorders and mental health needs.



States with statutes that encourage the use of risk assessments in pretrial release decision making:

- Colorado
- Connecticut
- Delaware
- Hawaii
- Illinois
- Kansas
- Kentucky
- Maine
- Oklahoma
- South Carolina
- Virginia

Donna Lyons, "Predicting Pretrial Success: Criminal justice policy is using science to predict risk, helping courts make decisions about the conditions of pretrial release." State Legislatures, February 2014



Static

History of FTA

Previous Felonies

Previous Incarcerations

Pending Charges

Previous Misdemeanors

Dynamic

Substance Abuse

Residence

Employment



RAITYPE:

Fourth Generation: Explicit integration of risk/needs management into the assessment process. The goal of Fourth Generation RAIs extends beyond assessing risk and focuses on enhancing supervision and treatment. (Examples: Correctional Offender Management Profiling For Alternative Sanctions (COMPAS), Ohio Risk Assessment System (ORAS) and Wisconsin Risk and Needs Tool (WRN).

RAI METHOD:

Adjusted actuarial approach: The evaluator uses a risk instrument composed of a finite, weighted set of factors identified through validation as being associated with risk. When appropriate, overrides from an approved list of considerations that can raise or lower the assessed level of risk.



Ohio Risk Assessment System: Pretrial Assessment Tool

1. Age at First Arrest

o=33 or older

1=Under 33

2. Number of Failure-to-Appear Warrants Past 24

Months

o=None

1=One Warrant for FTA

2=Two or More FTA Warrants

3. Three or more Prior Jail Incarcerations

o=No

1=Yes

4. Employed at the Time of Arrest

o= Yes, Full-time

1= Yes, Part-time

2= Not Employed

5. Residential Stability

o=Lived at Current Residence Past Six Months

1=Not Lived at Same Residence

6. Illegal Drug Use During Past Six Months

o=No

1=Yes

7. Severe Drug Use Problem

o=No

1=Yes



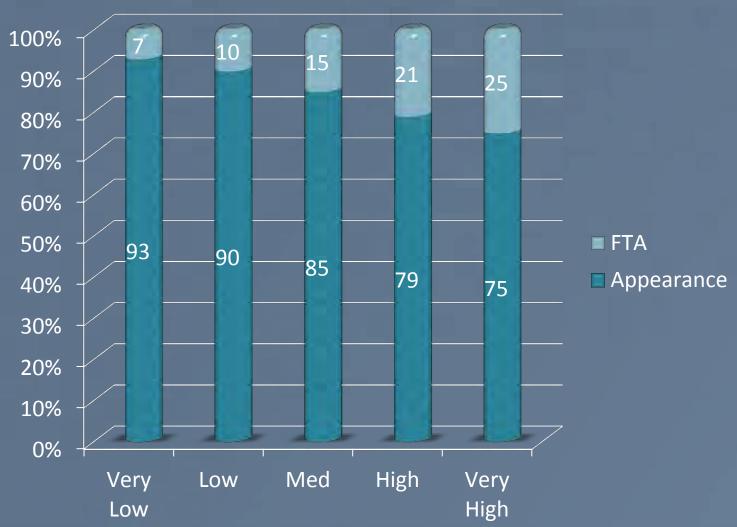
<u>Indiana Risk Assessment System:</u> Pretrial Assessment Tool

Reason for Override (note: overrides should not be based solely on offense):
Other Areas of Concern. Check all that Apply:
Low Intelligence*
Physical Handicap
Reading and Writing Limitations*
Mental Health Issues*
No Desire to Change/Participate in Programs*
Transportation
Child Care
Language
Ethnicity
Cultural Barriers
History of Abuse/Neglect
Interpersonal Anxiety
Other
*If these items are checked it is strongly recommended that further assessment be



conducted to determine level or severity.

Appearance Rate by RAI Level—Washington, DC



Safety Rate by RAI Level--Kentucky





Questions

Sequential Review of Release/Diversion Eligibility

- 1. Screening, assessment and recommendation at multiple decision points from initial appearance to adjudication.
- 2. Subsequent screening, assessment and recommendation that focus on new or updated information about the defendant .
- 3. Recommendations appropriate to newly assessed risk level.
- 4. Restrictions against conditions more stringent than the defendant's risk level suggests to "encourage" release.
- 5. Changes in supervision levels (both more or less restrictive) as a defendant's record of court appearance, arrest-free behavior and condition compliance warrants.

Risk-Based Supervision

Supervision levels tied to assessed risk levels greatly improve outcomes. Conversely, improper supervision produces poor outcomes and wastes resources. (The "risk principle").

According to available research, effective pretrial supervision includes:

- Notification to defendants of upcoming court dates
- Early and meaningful responses to defendant conduct
- Notification to the Court of defendant conduct and the possible need for supervision adjustment

Risk-Based Supervision

Drawing on data from two states, the Laura and John Arnold Foundation examined the likelihood of new criminal arrest and failure to appear for defendants released pretrial with supervision and those released without supervision. The study found that moderate- and high-risk defendants who received pretrial supervision were more likely to appear in court, and all defendants who were supervised pretrial for 180 days or more were less likely to be arrested for new criminal activity.

Risk-Based Supervision

Public Safety—Secured vs. Unsecured Bonds

Pretrial Risk Category	Unsecured Bond	Secured Bond
1 (lower)	93%	90%
2	84%	79%
3	69%	70%
4 (higher)	64%	58%
Average	85%	76%

Condition	Purpose	Strength of Evidence
Court Notification	FTA Reduction	✓ ✓ ✓ ✓ ✓Solid supervision practice for all risk levels. Can increase safety if FTA is considered a new charge. Continuing research on notification types.

Condition	Purpose	Strength of Evidence
Regular Reporting	FTA Reduction	✓No research on risk reduction. Good tool for court notification and conduct response for higher risk groups

Condition	Purpose	Strength of Evidence
Drug Testing	FTA Reduction Safety Promotion	✓✓Good deterrent of use, though risk reduction is limited to certain drugs. More technical violations from noncompliant tests. Keeping up with drug use trends is a must.

Condition	Purpose	Strength of Evidence
Electronic Surveillance	Safety Promotion	✓No evidence of risk reduction. Can encourage higher release rates but also more technical violations

Condition	Purpose	Strength of Evidence
Treatment	FTA Reduction Safety Promotion	✓✓Only for groups with assessed need. Greater benefit from mental health treatment than substance abuse.

Matrices

	Safety RAI					
Appearance RAI	Less Serious Misdemeanor	More Serious Misdemeanor	Less Serious or Non-Violent Felony	Driving Under the Influence	Domestic Violence	Statutory Serious or Violent Felony
Lower	Recognizance Release with Court Reminder	Recognizance Release with Court Reminder	Recognizance Release with Court Reminder	Recognizance Release with Basic Supervision	Recognizance Release with Basic Supervision	Detained, or Recognizance Release with Enhanced Supervision if Released
Medium	Recognizance Release with Basic Supervision	Recognizance Release with Basic Supervision	Recognizance Release with Basic Supervision	Recognizance Release with Enhanced Supervision	Recognizance Release with Enhanced Supervision	Detained, or Recognizance Release with Enhanced Supervision if Released
Higher	Detained, or Recognizance Release with Enhanced Supervision if Released	Detained or Recognizance Release with Enhanced Supervision if released	Detained, or Recognizance Release with Enhanced Supervision if Released			



Matrices

	Safety RAI				
Appearance RAI	Appearance RAI Lower		Higher		
Lower	Recognizance Release w/ Court Reminder	Basic Supervision	Basic Supervision		
Medium	Recognizance Release w/ Court Reminder	Basic Supervision	Enhanced Supervision		
Higher	Basic Supervision	Enhanced Supervision	Detained		

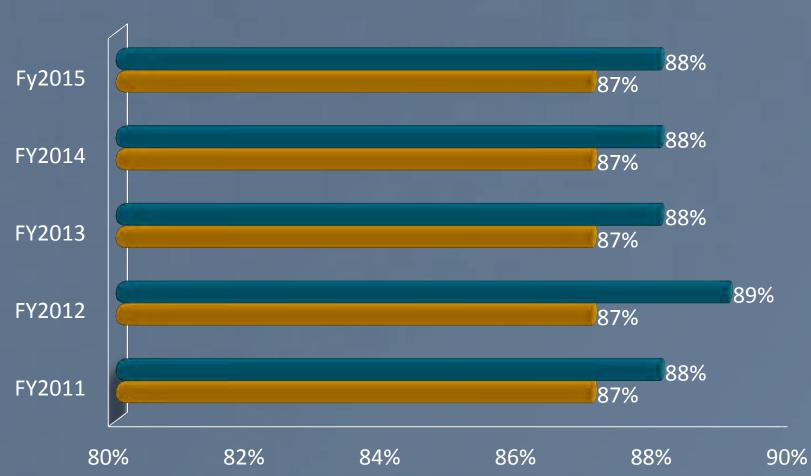
Performance Measurement

High-functioning pretrial systems collect and publish pretrial justice performance and outcome measures. At the least, these include:

- 1. Appearance Rate
- 2. Safety Rate
- 3. Community Placement

DC PSA Appearance Rates







Recap

Element	Present	Missing	Improved
Dedicated Pretrial Services Program	•	•	•
Operationalized Mission	•	•	•
Universal Screening	•	•	•
Validated Assessment Instrument	•	•	•
Sequential Review of Release/Diversion Eligibility	•	•	•
Supervision to Match Risk	•	•	•
Performance Measurement	•	•	•

Questions

"Change is Inevitable: Growth is Optional"

James Maxwell

Next Steps

Indiana Pretrial Release Pilot Project: Work Session

November 23, 2015- 10:00 a.m.- 3:00 p.m.

Indiana Judicial Center

Registration Contact:

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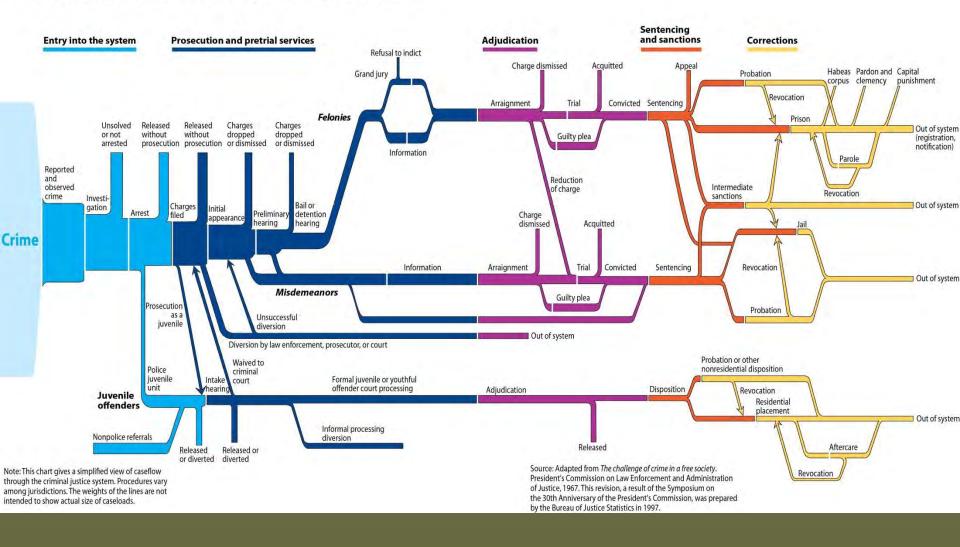
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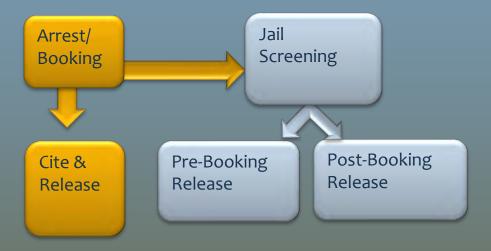
Mapping Essential Pretrial Elements

Spurgeon Kennedy Director, Office of Strategic Development Pretrial Services Agency for the District of Columbia

What is the sequence of events in the criminal justice system?



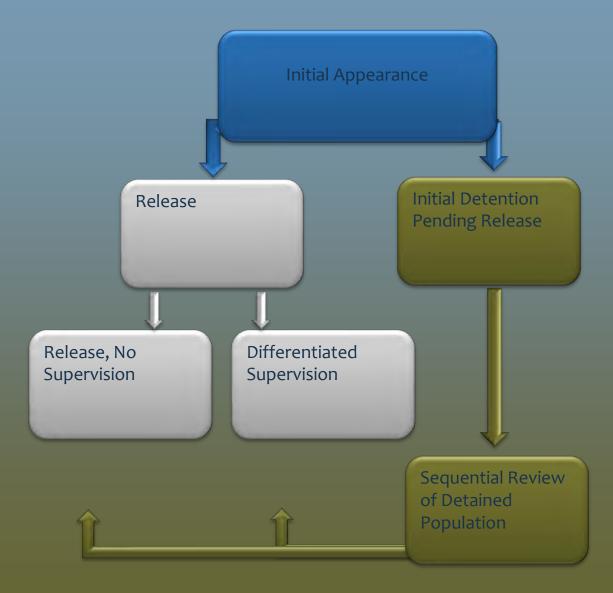
Arrest and Processing (Pre Initial Appearance)

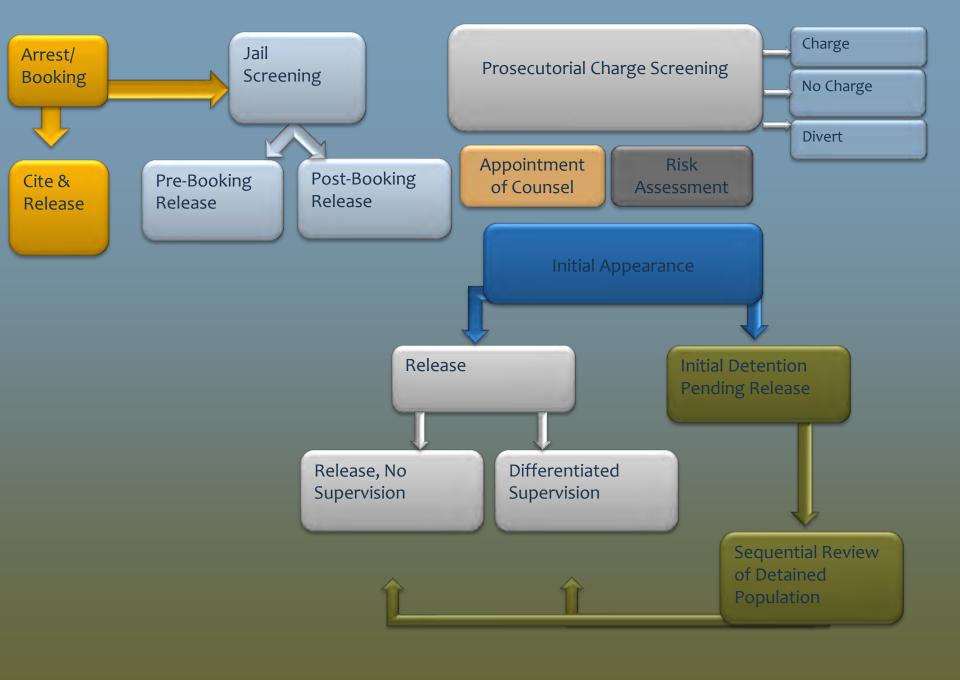


Initial Appearance Processing



Decisions and Outcomes





TAB 3



NATIONAL INSTITUTE OF CORRECTIONS

Measuring What Matters

Outcome and Performance Measures for the Pretrial Services Field



U.S. Department of Justice National Institute of Corrections 320 First Street, NW Washington, DC 20534

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NATIONAL INSTITUTE OF CORRECTIONS

Measuring What Matters

Outcome and Performance Measures for the Pretrial Services Field

The National Institute of Corrections Pretrial Executives Network

NIC Accession Number 025172

August 2011

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Acknowledgments

The National Institute of Corrections' (NIC) Pretrial Executive Network includes directors of established pretrial service programs nationwide. Its mission is to promote pretrial services programming as an integral part of state and local criminal justice systems. Its goals are to make pretrial programming relevant in national criminal justice funding, training, and technical assistance; encourage expanded research in the pretrial field; and identify best and promising practices in the pretrial release and diversion fields.

The Network would like to recognize and thank the following individuals for their contribution to this monograph:

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Foreword

This monograph presents recommended outcome and performance measures and mission-critical data for pretrial service programs. It is hoped that these suggested measures will enable pretrial service agencies to gauge more accurately their programs' effectiveness in meeting agency and justice system goals. The contributors to this monograph believe the recommended elements are definable and measurable for most pretrial service programs and are consistent with established national pretrial release standards and the mission and goals of individual pretrial programs. The monograph defines each measure and critical data element and identifies the data needed to track them. It also includes recommendations for programs to develop ambitious but reasonable target measures. Finally, the monograph's appendix lists examples of outcome and performance measures from three nationally representative pretrial service programs.

SUGGESTED OUTCOME MEASURES AND DEFINITIONS

Appearance Rate: The percentage of supervised defendants who make all scheduled court appearances.

Safety Rate: The percentage of supervised defendants who are not charged with a new offense during the pretrial stage.

Concurrence Rate: The ratio of defendants whose supervision level or detention status corresponds with their assessed risk of pretrial misconduct.

Success Rate: The percentage of released defendants who (1) are not revoked for technical violations of the conditions of their release, (2) appear for all scheduled court appearances, and (3) are not charged with a new offense during pretrial supervision.

Pretrial Detainee Length of Stay: The average length of stay in jail for pretrial detainees who are eligible by statute for pretrial release.

SUGGESTED PERFORMANCE MEASURES AND DEFINITIONS

Universal Screening: The percentage of defendants eligible for release by statute or local court rule that the program assesses for release eligibility.

Recommendation Rate: The percentage of time the program follows its risk assessment criteria when recommending release or detention.

Response to Defendant Conduct: The frequency of policy-approved responses to compliance and non-compliance with court-ordered release conditions.

Pretrial Intervention Rate: The pretrial agency's effectiveness at resolving outstanding bench warrants, arrest warrants, and capiases.

SUGGESTED MISSION CRITICAL DATA

Number of Defendants Released by Release Type and Condition: The number of release types ordered during a specified time frame.

Caseload Ratio: The number of supervised defendants divided by the number of case managers.

Time From Nonfinancial Release Order to Start of Pretrial Supervision: Time between a court's order of release and the pretrial agency's assumption of supervision.

Time on Pretrial Supervision: Time between the pretrial agency's assumption of supervision and the end of program supervision.

Pretrial Detention Rate: Proportion of pretrial defendants who are detained throughout pretrial case processing.

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Introduction

Performance Measurement: Assessing progress toward achieving pre-determined goals, including information on the efficiency with which resources are transformed into goods and services (outputs), the quality of those outputs and outcomes, and the effectiveness of operations in terms of their specific contributions to program objectives.

—National Performance Review, Serving the American Public: Best Practices in Performance Measurement (Washington, D.C.: Executive Office of the President, 1997).

The National Institute of Corrections' (NIC) Pretrial Executive Network includes directors of established pretrial service programs nationwide. The Network's mission is to promote pretrial services programming as an integral part of state and local criminal justice systems. Its goals are to make pretrial programming more prominent in national criminal justice funding, training, and technical assistance; encourage expanded research in the pretrial field; and identify best and promising practices in the pretrial release and diversion fields.

In 2010, the Network identified the need for consistent and meaningful data to track individual pretrial services program performance. Current information on pretrial programming is limited and usually does not describe individual program outcomes.¹ National data specific to pretrial program outcomes and performance would help individual programs measure their effectiveness in achieving their goals and objectives and in meeting the expectations of their justice systems. Consistent with public- and private-sector best practices,² pretrial services program outcome measures, performance measures, and mission-critical data would tie into the individual agency's mission, local justice system needs, state and local bail laws, and national pretrial release standards.

In October 2010, the Network commissioned a working group to develop suggested pretrial release outcome and performance measures and mission-critical data. This included identifying performance indicators based on the above-mentioned factors and recommending strategies for programs to develop ambitious but attainable measure targets. The working group relied on the Network's accepted definitions of outcome and performance measures and mission-critical data. They are presented here as follows:

Outcome measure: An indicator of an agency's effectiveness in achieving a stated mission or intended purpose.

Performance measure: A quantitative or qualitative characterization of performance.

Mission-critical data: Supporting data in areas strategically linked to outcome and performance measures. These data track progress in areas and on issues that supplement specific measures.

Scope of Outcome and Performance Measures

A central issue for the Network is whether certain recommended measures—such as appearance and safety rates—are indicators more of overall justice system performance than of the performance of individual programs. Appearance rates depend as much on the number of released defendants, their degrees of risk, and the number of court appearances (potential failure points) set as on the pretrial program's risk assessment and supervision protocols. Moreover, a pretrial services program's recommendation for release

or detention is not binding. In making pretrial release or detention decisions, courts consider other factors (such as strength of the evidence) that are not included in most risk assessment models. None of these external factors is fully under a pretrial program's control. However, the Network believes the measures identified are critical measures of pretrial program success and should be considered as individual agency indicators. Programs should use target measures to recognize and offset these external factors.

Supporting Business Practices

Outcome and performance measures require an organizational structure that supports critical function areas, includes adequate resources for risk assessment and risk management, and fosters strong collaborative relationships within the local criminal justice system and the broader community. For the suggested measures, the Network recommends the key organizational elements for pretrial services programs identified by national standards promulgated by the American Bar Association (ABA)³ and the National Association of Pretrial Services Agencies (NAPSA).⁴ These include:

- Policies and procedures that support the presumption of release under the least restrictive conditions needed to address appearance and public safety concerns.
- Interviews of all detainees eligible for release consideration that are structured to obtain the information needed to determine risk of nonappearance and rearrest and to exercise effective supervision.
- Risk assessment schemes that are based on locally researched content and applied equally and fairly.
- Recommendations for supervision conditions that match the defendant's individual risk level and specific risks of pretrial misconduct.
- Monitoring of defendants' compliance with release conditions and court appearance requirements.
- Graduated responses to defendants' compliance and noncompliance.
- Tracking of new arrests occurring during supervision.
- Court notification of program condition violations and new arrests.
- Timely notice to court of infractions and responses.
- Monitoring of the pretrial detainee population and revisiting release recommendations if defendants remain detained or if circumstances change.

Outcome Measures

Appearance Rate

Appearance rate measures the percentage of supervised defendants who make all scheduled court appearances. This is the most basic outcome measure for pretrial service programs. Nearly all such programs have as part of their mission the goal of maximizing appearance rates among released and supervised defendants. Program assessment and supervision strategies seek to minimize each defendant's risk of nonappearance. Further, state and local bail statutes and provisions encourage court appearance to promote the effective administration of justice and to bolster public confidence in the judicial system. Finally, national standards on pretrial release identify minimizing failures to appear as a central function for pretrial programs.

The recommended data for this outcome measure are cases with a verified pretrial release or placement to the pretrial program and the subset of this population that have no bench warrants or capiases issued for missed scheduled court appearances. Depending on its information management system, the program may also track the appearance rate of various defendant populations—such as those charged with violent crimes or those released conditionally, financially, or on personal recognizance—although the primary group targeted should be defendants released to the agency's supervision.

Pretrial programs should count all cases with issued bench warrants and capiases under this outcome measure, including instances when defendants subsequently return to court voluntarily and are not revoked. The recommended pretrial intervention performance measure allows programs to gauge their efforts in resolving warrants. As a supporting business practice, pretrial

services programs may also calculate and keep an adjusted appearance rate that considers defendant voluntary returns and warrant surrenders that the program brings about.

Safety Rate

Safety rate tracks the percentage of supervised defendants who are not charged with a new offense during the pretrial stage. A new offense is defined here as one with the following characteristics:

- The offense date occurs during the defendant's period of pretrial release.⁵
- It includes a prosecutorial decision to charge.
- It carries the potential of incarceration or community supervision upon conviction.

At least 36 states and the federal judicial system factor a defendant's potential threat to the public or to specific individuals into the pretrial release or detention decision. National pretrial release standards also identify public safety as a legitimate pretrial concern for local justice systems.

The recommended data for this outcome measure are the number of defendants with a verified pretrial release or placement to the pretrial program and the subset of this population with no rearrests on a new offense. Depending on the program's information capabilities, the outcome measure should include recorded local and national arrests. As a supporting business practice, pretrial programs also may track separate safety rates by charge type (for example, misdemeanors, felonies, or local ordinance offenses), severity (violent crimes, domestic violence offenses, or property crimes), or by various defendant populations.

Concurrence Rate

Concurrence rate is the ratio of defendants whose supervision level or detention status corresponds to their assessed risk of pretrial misconduct.

Conditions of supervision recommended and imposed do not have to match exactly; however, the overall supervision level should be comparable. For example, a recommendation for release on personal recognizance with no conditions and a subsequent conditional supervision release with a requirement to report to the pretrial services program weekly would not be defined as concurrent. This measure counts only defendants eligible by statute for pretrial release⁶ and is presented in the following matrix (exhibit 1):

Exhibit 1. Matrix of Assessment Versus Release Level

ASSESSED	RELEASE LEVEL				
LEVEL	Low	Medium	High	Detention	
Low	Х				
Medium		Х			
High			Х		
No Release				Х	

Concurrence rate is an excellent measure of success in helping courts apply supervision levels that match the defendant's identified risk level. This is a recognized best practice in the criminal justice field. (It is assumed that the individual pretrial program does not overtly attempt to fit its release/detention recommendations to a perceived court outcome.) The measure also complements appearance and safety rates by allowing pretrial programs to track subsequent failure by defendants originally recommended for detention.

The recommended data for this outcome measure are the number of release and detention recommendations and subsequent release and detention outcomes.

Success Rate

Success rate measures the percentage of released defendants who are (1) not revoked for technical violations due to condition violations, (2) appear for all scheduled court appearances, and (3) are not charged with a new offense during pretrial supervision. The measure excludes defendants who are detained following a guilty verdict and those revoked due to non-pretrial-related holds.

The recommended data for this outcome measure are the total number of defendants released to the program and the subset of this population that experiences no condition violations, failures to appear, or rearrests. Depending on the pretrial program's information system, revocations may show up as subsequent financial release or detention orders.

Pretrial Detainee Length of Stay

Detainee length of stay represents the average length of jail stay for pretrial detainees who are eligible by statute for pretrial release. This is a significant outcome measure for the estimated 27 percent of pretrial programs that are located within corrections departments⁷ and that have missions to help control jail populations, and it is a performance measure for other pretrial programs.

The recommended data for this outcome measure are admission and release dates for all pretrial-related jail detentions. *Release* as defined here is the defendant's full discharge from jail custody.

Performance Measures

Universal Screening

Universal screening reflects the percentage of defendants eligible for release by statute or local court rule that a program assesses for release. Screening includes any combination of pretrial interview, application of a risk assessment instrument, or measurement against other established criteria for release recommendation or program placement.

This measure conforms to national standards that encourage full screening of release-eligible defendants⁸ and state bail statutes that mandate release eligibility for certain defendant groups. When measuring screening, jurisdictions should go beyond initial arrest and court appearance and consider all detainees who become eligible for pretrial release consideration at any point before trial. (These screens may occur at initial arrest or court hearings and be submitted to the court once the defendant becomes eligible for release.)

The recommended data for this performance measure are the total number of release-eligible defendants and the subset of this population that the pretrial program screened.

Recommendation Rate

Recommendation rate reflects how frequently the pretrial program follows its risk assessment criteria when recommending release or detention. There are two potential data sources for this performance measure:

1) The pretrial program's total number of recommendations during a specific time frame and the number of these recommendations that conform to the release or detention level identified by the risk assessment.

2) The percentage of overrides to the risk assessment scheme.

Response to Defendant Conduct

Response to defendant conduct measures how often case managers respond appropriately (by recognized policy and procedure) to compliance and noncompliance with court-ordered release conditions. This measure conforms to national standards for pretrial supervision⁹ and evidence-based practices in criminal justice for swift, certain, and meaningful responses to defendant and offender conduct.

Response to defendant conduct requires pretrial programs to have in place clear definitions of compliance and noncompliance with conditions of supervision and procedures outlining appropriate case manager responses. The recommended data for this measure are the number of identified technical violations and the percentage of these violations with a noted appropriate staff response. This includes administrative responses by staff and recommendations for judicial action.

Pretrial Intervention Rate

The pretrial intervention rate measures the pretrial program's effectiveness at resolving outstanding bench warrants, arrest warrants, and capiases. The measure tracks the percentage of:

- Defendants with outstanding warrants who selfsurrender to the pretrial program, court, or law enforcement after being advised to do so by the pretrial program.
- Arrests brought about by pretrial program staff of supervised defendants with outstanding warrants.

Mission-Critical Data

Number of Defendants Released by Release Type and Condition

The number of defendants released by release type and condition tracks the number of defendants released by court-ordered release type, for example, personal recognizance, conditional supervision, or unsecured bond. For releases to the pretrial program, the data also track the frequency of individual release conditions.

Caseload Ratio

The caseload ratio is the number of supervised defendants divided by the number of case managers. The data include the pretrial program's overall caseload rates and rates for special populations such as defendants in high-risk supervision units, under specialized calendars, or under high-resource conditions such as electronic monitoring and global positioning surveillance.

Time From Nonfinancial Release Order to Start of Pretrial Supervision

Time from nonfinancial release order to start of pretrial supervision tracks the time between a court's order of release and the pretrial program's assumption of supervision. Data collected include the jail release date for cases involving initial detention or the actual date of the judicial order for defendants already in the community, and the first contact date with the pretrial program following release or the new judicial order.

The issuance of the judicial order is the most accurate indicator of the official start of pretrial agency supervision. However, evidence shows that too few pretrial programs receive timely notification of orders from the court to make this a practical indicator of when the agency first exercises supervision authority over the defendant. Therefore, the Network recommends the first contact date with the pretrial agency as a more realistic data source.

Time on Pretrial Supervision

The time on pretrial supervision is measured by the length of time between the pretrial program's assumption of supervision authority and the end of program supervision. Supervision begins with the defendant's first contact with the pretrial program and terminates following case disposition or the issuing of new release or detention requirements.

Pretrial Detention Rate

The pretrial detention rate is the proportion of pretrial defendants who are detained throughout pretrial case processing.

Setting Targets

Performance goal: A target level of an activity expressed as a tangible measurable objective, against which actual achievement can be compared.

 —National Performance Review, Serving the American Public: Best Practices in Performance Measurement (Washington, D.C.: Executive Office of the President, 1997).

A performance target is a numeric goal for an outcome or performance measure; for example, an appearance rate of 90 percent for all released defendants. It is a specific gauge of performance achieved against performance expected. Well-defined, ambitious, and attainable performance targets can help organizations deliver expected services and outcomes and identify needed programmatic and system strategic changes. Conversely, static or unreasonable targets can encourage lower expectations, thereby minimizing the program's influence as a system partner, or burden organizations with objectives that are inconsistent with its mission and resources.

Adopting the SMART Method

Given variances nationwide in defendant populations, court operations, and justice system practices, the Network believes recommended universal targets for each stated measure is impractical. Instead, the Network recommends that individual programs adopt the SMART (specific, measurable, achievable, realistic, and time-bound) method of setting effective targets.

SPECIFIC

Specific targets are clear and unambiguous. They describe exactly what is expected, when, and how

much. For example, a specific target for universal screening would be: "Interview 95 percent of defendants eligible by statute for pretrial release." Because the targets are specific, the pretrial program can easily measure progress toward meeting them.

MEASURABLE

An effective target answers the questions "how much" or "how many." Each target must be a set number or percentage that can be *measured*. Further, each target must be based on existing and retrievable data. Programs must assess their information management capacity to determine a target's feasibility.

ACHIEVABLE

Targets must be within the capacity of the organization to *achieve* while challenging the organization to improve its performance. They should be neither out of reach nor below an acceptable standard. Targets set too high or too low become meaningless and eventually worthless as indicators. The organization's most recent past performance (approximately the past 2 years) usually is a good indicator of what is feasible—at least as a beginning target.

REALISTIC

Realistic targets consider an organization's resources and the areas it actually can influence.

TIME BOUND

Effective targets have *fixed durations*—for example, a calendar or fiscal year—that allow time to achieve or calculate the outcome or performance measure.

Other Recommendations for Targets

- When establishing initial targets, set a minimum target and a stretch target. The minimum target should be one the program believes is the most manageable, whereas the stretch target would serve as the rate the program would strive to accomplish. Programs also can set a minimum target for the first year or two of performance measurement and a stretch target for future years.
- Consider trends to establish a target baseline. If past data exist for performance on a particular measurement, examine those data for trends that can serve as a baseline for setting targets for future performance.

- Use "SWOT" analysis to gauge the program's internal strengths and weaknesses, as well as its external opportunities and threats. Consider target rates that can help build on strengths and leverage opportunities as well as minimize weaknesses and threats.
- Get feedback from stakeholders; their expectations can yield insights in setting appropriate targets.
- If available, consider the performance targets of comparable pretrial programs. The appendix to this monograph includes sample outcome and performance measures.
- Consider current or planned internal or external initiatives that may affect established or potential targets.

Notes

- For example, see T. Cohen and T. Kyckelhahn, State Court Processing Statistics Data Limitations (Washington, D.C.: U.S. Department of Justice, Bureau of Justice Statistics, 2010).
- National Performance Review, Serving the American Public: Best Practices in Performance Measurement (Washington, D.C.: Executive Office of the President, 1997); National State Auditors Association, Best Practices in Performance Measurement: Developing Performance Measures (Lexington, KY: National State Auditors Association, 2004); Center for Performance Management, Performance Measurement in Practice (Washington, D.C.: International City/County Management Association, 2007): National Center for Public Performance, A Brief Guide for Performance Measurement in Local Government (Newark, NJ: Rutgers University, 2001).
- American Bar Association, Criminal Justice Standards on Pretrial Release: Third Edition (Washington, D.C.: American Bar Association, 2002).

- National Association of Pretrial Services Agencies, Standards on Pretrial Release: Third Edition (Washington, D.C.: National Association of Pretrial Services Agencies, 2004).
- 5. This excludes arrest warrants executed during the pretrial period for offenses committed before the defendant's case filing.
- 6. This excludes defendants detained on statutory holds, probation or parole warrants, or holds and detainers from other jurisdictions.
- 7. J. Clark and D.A. Henry, Pretrial Services Programming at the Start of the 21st Century: A Survey of Pretrial Services Programs (Washington, D.C.: U.S. Department of Justice, Bureau of Justice Assistance, 2003).
- 8. NAPSA Standard X-3; ABA Standard 10-4.2 (A)
- 9. NAPSA Standard 4.3; ABA Standard 10-1.10 (f)

Appendix A: Examples of Pretrial Release Program Measures

Pretrial Services Agency for the District of Columbia

OUTCOME MEASURES

- Rearrest rates: overall and for violent and drug crimes, for drug users and nonusers.
- Failure to appear (FTA) rates overall and by drug users and nonusers.
- Percentage of defendants remaining on release at the conclusion of their pretrial status without a pending request for removal or revocation due to noncompliance.

PERFORMANCE MEASURES

Risk Assessment

- Percentage of defendants who are assessed for risk of failure to appear and rearrest.
- Percentage of defendants for whom the Pretrial Services Agency (PSA) identifies eligibility for appropriate appearance and safety-based detention hearings.

Supervision

- Percentage of defendants who are in compliance with release conditions at the end of supervision.
- Percentage of defendants whose noncompliance is addressed by PSA either through the use of an administrative sanction or through recommendation for judicial action.

Treatment

- Percentage of referred defendants who are assessed for substance abuse treatment.
- Percentage of eligible assessed defendants placed in substance abuse treatment programs.
- Percentage of defendants who have a reduction in drug usage following placement in a sanctionsbased treatment program.
- Percentage of defendants connected to educational or employment services following assessment.
- Percentage of referred defendants who are assessed or screened for mental health treatment.
- Percentage of service-eligible assessed defendants connected to mental health services.

Partnerships

Number of agreements established and maintained with organizations and/or programs to provide education, employment, or treatment-related services or through which defendants can fulfill community service requirements.

Note: Outcome and performance measure targets are being revised for fiscal years 2011–13.

Multnomah County (Portland, OR) Pretrial Services

OUTCOME MEASURES

Percentage of interviewed defendants released on their own recognizance who return to court.

PERFORMANCE MEASURES

- Number of days from court referral to the Pretrial Services Program (PSP) to PSP's decision to accept supervision (Target = 7 Days).
- Rate of negative case closures—new arrests or FTA warrants.
- PSP rate of acceptance or denial of defendant supervision.

Kentucky Pretrial Services Department

OUTCOME MEASURES

- Appearance rate (Target=90%).
- Public safety rate (Target=90%).
- Supervision compliance rate (Target=85%).

PERFORMANCE MEASURES

- Investigation rate (Target=85%).
- Verification rate (Target=85%).
- Release rate by risk level:
 - Low (Target=85%).
 - Moderate (Target=75%).
 - High (Target=50%).

- Affidavit of indigence completion rate* (Target=95%).
- 24-hour reviews (Target=100%).
- * The Pretrial Department is mandated by statute to complete affidavits on all defendants that request a public defender.

MISSION CRITICAL DATA

- Number of pretrial interviews.
- Pretrial interview rate.
- Pretrial release rate.
- Number of defendants who are placed on conditional release.
- Number of defendants who report to the department.
- Number of defendants who are drug tested.
- Risk levels of supervised defendants.
- Defendant-to-case manager ratio.
- Savings to individual counties for department services.
- Number of defendants who receive pretrial diversion.
- Number of diversion community service hours completed.
- Amount of restitution paid to victims through diversion placements.

Appendix B: National Institute of Corrections Pretrial Executive Network

Penny Stinson, Maricopa Co. Adult Probation

Tara Boh Klute, Kentucky Pretrial Services

Greg Johnson, U.S. Pretrial Probation

Frank McCormick, Los Angeles County Probation Department

Susan Shaffer, District of Columbia Pretrial Services Agency

Cyndi Morton, Alachua County Department of Court Services

Thomas McCaffrey, Allegheny County Pretrial

Elizabeth Simoni, Maine Pretrial Services

Sharon Trexler, Montgomery County Department of Corrections

Barbara Hankey, Community Corrections, Oakland County Mary Pat Maher, Ramsey County Pretrial Services

Barbara Darbey, Pretrial Services Corporation

Jerome E. McElroy, New York City Criminal Justice Agency

Daniel Peterca, Cuyahoga County Court of Common Pleas

Wendy Niehaus, Department of Pretrial Services

Carol Oeller, Harris County Pretrial Services

Bill Penny, Multnomah County Community Corrections

Sharon Jones, Virginia Beach Pretrial/Community Corrections

Peter Keirs, President, National Association of Pretrial Services Agencies

Tim Murray, Executive Director, Pretrial Justice Institute

U.S. Department of Justice

National Institute of Corrections

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TAB 4

KENTUCKY PRE- PSA - COURT

Table 11 The Current And New Weighting Rules For The Revised Pretrial Risk Assessment Instrument.

	Scoring Items	Cur	rent	Modi	ified
		Yes	No	Yes	No
1	Does the defendant have a verified local address and has the defendant lived in the area for the past twelve months?		1		
2	Does the defendant have verified sufficient means of support?		1		1
3	Did a reference verify that he or she would be willing to attend court with the defendant or sign a surety bond?		1	Remo	oved
4	Is the defendant's current charge a Class A, B, or C Felony?	1		1	
5	Is the defendant charged with a new offense while there is a pending case?	5		7	
6	Does the defendant have an active warrant(s) for Failure to Appear prior to disposition? If no, does the defendant have a prior FTA for felony or misdemeanor?	4		2	
7	Does the defendant have prior FTA on his or her record for a criminal traffic violation?	1		1	
8	Does the defendant have prior misdemeanor convictions?	1		2	
9	Does the defendant have prior felony convictions?	1		1	
10	Does the defendant have prior violent crime convictions?	2	•	1	
11	Does the defendant have a history of drug/alcohol abuse?	2		2	
12	Does the defendant have a prior conviction for felony escape?	1	-	3	
13	Is the defendant currently on probation/ parole from a felony conviction?	2		1	
	Did you receive special education services in school for an emotional or behavioral problem?		Not l	Used	,
	Have you ever spoken to a counselor or psychologist about a personal problem?		Not l	Jsed	
	Violated conditions of pretrial release in last 12 mos	•	Nọt l	Used	
	If yes, was bond revoked?		Not	Used	
	1	L			

Table 12:
The Current And New Cut-Points For The Revised Pretrial Risk Assessment Instrument

	Current	Modified
Low	0-5	0-5
Moderate	6-12	6-13
High	13-High	14-High



Results from the First Six Months of the Public Safety Assessment - Court™ in Kentucky



Since adopting the Public Safety Assessment – Court on July 1, 2013, Kentucky's courts have achieved a truly remarkable result: They have been able to **reduce crime by close to 15%** among defendants on pretrial release, while at the same time increasing the percentage of defendants who are released before trial.

n July 1, 2013, judges in all 120 counties in the Commonwealth of Kentucky began using the Public Safety Assessment – Court™ (or PSA-Court™), a new data-driven risk assessment, to inform their decisions about which defendants can most safely be released from jail while they await trial, and which defendants should be detained because of the risks they pose to public safety. The first six months of results indicate that the PSA-Court is serving Kentucky well. Most importantly, they show that by using the risk assessment and applying their discretion, Kentucky judges have reduced crime, reduced jail populations, and led to a smarter, more effective use of criminal justice resources.

Kentucky has long been a leader in providing effective, research-based pretrial services — and, even prior to adopting the PSA-Court, the system was rightly seen as a national model. But since implementing the new risk assessment, Kentucky's courts have achieved a truly remarkable result: They have been able to *reduce crime by close to 15%* among defendants on pretrial release, while at the same time increasing the percentage of defendants who are released before trial. In short, the PSA-Court has assisted judges in making decisions that both better protect the public *and* more effectively use the Commonwealth's criminal justice resources.

The PSA-Court has proven to be highly accurate at identifying the small group of Kentucky defendants who are at an elevated risk of committing violence if released before trial. Indeed, defendants flagged by the PSA-Court as posing an increased risk of violence are, in fact, rearrested for violent acts at a rate 17 times that of defendants who are not flagged. In addition, the PSA-Court has been accurately evaluating the risk that a given defendant will commit a new crime or fail to come back to court if he is not detained.

The report below summarizes the first six months that the PSA-Court was used throughout Kentucky (July – December 2013). The underlying analysis was conducted by a research team led by Dr. Marie VanNostrand and relied on data (supplied by Kentucky's Administrative Office of the Courts) on the 56,866 defendants who were booked into jail and released during this period. Although the tool has been in effect for a year, many of the cases arising from January through June 2014 have not yet been resolved and, as such, they have not been included in this analysis. While we do not have sufficient outcome data to analyze the more recent cases, the results identified here continue to be seen in the data from January 2014 to the present.

SYSTEM IMPACTS

As noted above, Kentucky's courts have used the PSA-Court to help identify low-risk defendants who pose little threat to public safety and are therefore suitable for pretrial release. In the first six months that the PSA-Court was used, Kentucky increased to 70% the proportion of defendants released pending trial, up from 68% during the previous four years.

What makes the increase in release rate notable is that it has not come at the expense of public safety; to the contrary, it has been achieved alongside a *decrease* in pretrial crime. Since implementation of the PSA-Court, and as compared to the four years prior to July 1, 2013, the new criminal activity rate has dropped significantly. The average arrest rate for released defendants has declined from 10% to 8.5%. This represents a *15% reduction in pretrial crime*. Moreover, while more defendants are now being released, Kentucky has not seen any increase in the rate at which defendants miss court. In short, Kentucky is now detaining more high-risk and potentially violent defendants, while more low-risk defendants are being released. And crime is down.

In addition to the positive impacts on crime and pretrial incarceration, Pretrial Services has reported that the tool has allowed a more effective deployment of resources. In large part, this is because the PSA-Court can be completed without conducting a defendant interview. The streamlined assessment process permits Kentucky Pretrial Services to use its limited resources to mitigate risk through supervision and services. Moreover, although Kentucky statutes require brief defendant interviews, the overall time it takes to administer the risk assessment tool has decreased significantly; and Pretrial Services can now assess all defendants, not just those who consent to an interview and provide information that can be verified.

PREDICTIVE VALIDITY

The PSA-Court is made up of nine risk factors that can be obtained from administrative data (e.g., criminal history and current charge). These factors are weighted and combined to evaluate the risk that if a defendant is released before trial, he will: (1) commit a violent crime; (2) commit any new crime; or (3) fail to appear for court. Data from the first six months of Kentucky's use of the PSA-Court demonstrate that the assessment is predicting all three risks with a high degree of accuracy.²

"When training a new employee or speaking to a judge about the risk assessment, they often ask why some factors are counted and others are not. With this tool, it is much easier to explain the reasons why – and because of that it makes sense to the person you are explaining it to. I think this tool is much more accurate and easier to use than what we had in the past."

-Michael Greene, Pretrial Services Supervisor

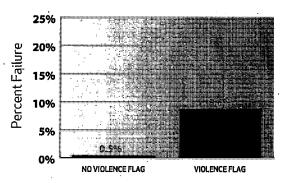
¹ Since a small number of cases from the July - December 2013 period remain open, there may be a slight increase in arrest rates as the remaining cases close. But the ultimate reduction in pretrial crime is estimated to fall between 10% and 15%.

² Since a small number of cases from the July – December 2013 period remain open, there may be a slight increase in failure rates as the remaining cases close.

NEW VIOLENT CRIMINAL ACTIVITY

During the first six months of the PSA-Court implementation, a select group of judges pilot-tested the PSA-Court's violence "flag," which identifies a small group of defendants who are significantly more likely to commit an act of violence if released before trial. Indeed, flagged defendants - just 6% of individuals who were released - were 17 times more likely to be arrested for new violent criminal activity than defendants who were not flagged. All Kentucky judges began receiving this information on July 1, 2014, which could potentially help improve public safety even further.

New Violent Criminal Activity - Pretrial

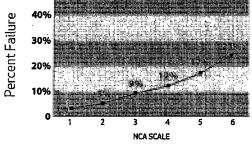


NEW CRIMINAL ACTIVITY AND FAILURE TO APPEAR

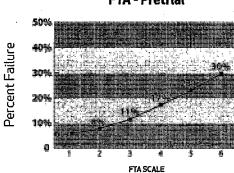
NCA - Pretrial

The new criminal activity (NCA) and failure to appear (FTA) scales classify a defendant's risk from one to six, with one representing the lowest risk and six representing the highest. As can be seen in the graphs below, the scales accurately group defendants according to the risk they pose of being arrested for new criminal activity or failure to appear while on pretrial release. With each increase in risk score, defendants become significantly more likely to fail.





FTA - Pretrial



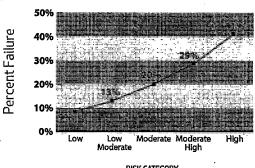
"Thanks in large part to the risk assessment tool, Kentucky judges have a pretty good grasp on making appropriate release decisions. When used correctly and in conjunction with other factors which may appear, the instrument is extremely helpful in aiding courts with making good release decisions."

- Circuit Court Judge David Tapp

ANY FAILURE

Although not a part of the PSA-Court, Kentucky uses the NCA and FTA scales to create an additional measure of pretrial failure. This "Any Failure" measure represents any type of pretrial failure - NCA, FTA, or both. The scores from the NCA and FTA scales are added together and, as can be seen in the graph, the combined Any Failure rate increases with each corresponding increase in risk level.

Any Failure - Pretrial



RISK CATEGORY

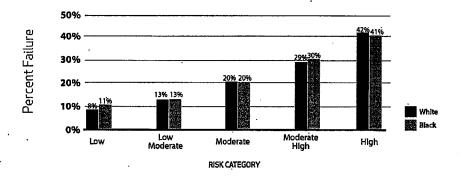
RACE AND GENDER

Data from Kentucky's first six months using the PSA-Court were also closely examined to determine whether the instrument had any discriminatory impact on minorities or women. What it revealed is that the tool is both racially neutral and gender neutral. It accurately classifies defendants' risk levels regardless of their race or gender, meaning it does not have a discriminatory impact.

RACE³

As we see in the chart below, black and white defendants at each risk level fail at virtually indistinguishable rates, which demonstrates that the PSA-Court is assessing risk equally well for both whites and blacks, and is not discriminating on the basis of race.

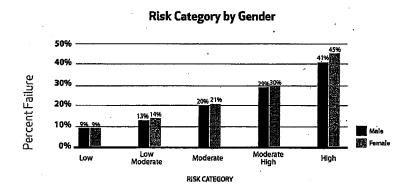
Risk Category by Race



In Kentucky, over 96% of the population is either black or white. As a result, other racial groups are not sufficiently represented in the sample to perform the analysis.

GENDER

Similarly, when we look at gender, we see that men and women in the same risk category fail at almost exactly the same rate. This indicates that the PSA-Court is assessing risk accurately for both genders and is not discriminating on that basis.



"The instrument is a valuable tool and one that I rely on, along with my judicial discretion, to set an appropriate bond, taking into account the current offense, the criminal history of the accused, and the likelihood of reappearance in court if released."

-District Court Judge Ann Bailey Smith

CONCLUSION

Kentucky is highly regarded nationally as a leader in providing effective pretrial services and has remained at the forefront of the field for the past four decades. The Commonwealth's decision to be the first site in the nation to adopt the PSA-Court is in keeping with that tradition. The first six months of results indicate that the PSA-Court is serving the state well. Most importantly, the results show that by using the risk assessment and applying their discretion, Kentucky judges have effectively made pretrial decisions that have reduced crime, reduced jail populations, and led to a smarter and more effective use of criminal justice resources.

"The performance of the PSA – Court in Kentucky is truly remarkable. Being able to accurately identify defendants with an elevated risk of violence, as well as being able to distinguish between the risks of new criminal activity and failure to appear, has proven invaluable. Because it is based on administrative data, Pretrial Services is able to conduct risk assessments on all cases within 24 hours of arrest and provide the Courts with critical information to inform the pretrial release decision-making process."

-Tara Klute, General Manager Kentucky Pretrial Services

Kentucky Pretrial

Risk Assessment Instrument Validation

Prepared by

James Austin Roger Ocker Avi Bhati

The JFA Institute

October 29, 2010

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Introduction

In 2009, the Kentucky Pretrial Services Agency (KPSA) made a request to the Pretrial Justice Institute (PJI) to receive technical assistance on its risk assessment instrument. PJI has an award from the Bureau of Justice Assistance, U.S. Department of Justice, to provide technical assistance for a wide variety of correctional agencies. The primary partner with PJI is the JFA Institute, which responds to all referrals made by PJI. One of JFA's organizational capabilities is to conduct validation studies of risk assessment instruments. For this reason the KPSA request was forwarded to JFA to complete.

The KPSA has been using a risk assessment instrument for a number of years. The instrument itself was designed based on other pretrial risk assessment instruments that have been validated in other jurisdictions. But the KPSA instrument had never been tested by an external agency on people who had been arrested, detained and subsequently released on pretrial status. Thus the task of this study was to determine the extent to which the current instrument was valid.

Research Methods

Kentucky created pretrial services in 1976 to replace for-profit commercial bail bonding services and is one, of only a few states, that has outlawed commercial bail bonding. Unlike many other jurisdictions, KPSA is part of the state's court system. Furthermore, because it is a statewide agency, all of the its functions and data are standardized. Such a statewide structure greatly enhances the ability to conduct a meaningful validation effort.

Data on the Kentucky pretrial release population were obtained and analyzed to assess the extent to which the instrument needed to be modified and, if so, what items needed to be dropped and what additional items needed to be introduced into a modified instrument.

The data used to complete this analysis were based on all cases where a pretrial interview was conducted by the various pretrial services agencies that are located throughout Kentucky. Specifically, there were 52,344 interviews conducted between July 1, 2009 and September 30, 2009. For these interviews, 38, 478 or 74% were released pre-trial. For each case, it was recorded where the person was re-arrested or failed to appear (FTA).

Table 1 shows the basic demographic attributes of the persons who were interviewed and released pretrial. Also included are the FTA, pretrial re-arrest rates, and a composite FTA/re-arrest rate. As in most jurisdictions, the FTA, re-arrest and combined rates are relatively low. Specifically, the FTA rate is 8%, the re-arrest rate 7%, and the combined rate 14%. The table also shows relative associations of each item and the three measures of success/failure on pretrial release.

Tables 2, 3, 4 and 5 repeat this type of analysis for measures that reflect the current charge (Table 2), substance abuse measures (Table 3), and mental health (Tables 4 and 5). In all of these tables there are some items that have no meaningful statistical relationships and others that do have a statistically significant relationship. However, it should be emphasized that because the base rates are so low, there will be few items that have very strong relationships with pretrial release outcomes.

Tables 6, 7, and 8 summarize this same analysis for the 13-item risk instrument. Here, one can see that the current instrument items and scale are associated with pretrial arrest and FTA rates. There are some items that either have a very modest association or have little variance in the scoring results. For example, item 3. ("Reference verified willingness to attend court or

sign surety bond") has little if any statistical association with the failure rates. The table also shows two additional items (14 and 15), which were test items to see if that would add to the overall risk assessment instrument's predictive capabilities. As indicated, they show that less than 2% of the assessed cases are being scored into one of the two categories. With such a lack of variance they are unlikely to have much predictive abilities.

In summary, the current 13-item instrument is producing a strong association between the risk levels of low, moderate and high and FTA and pretrial arrest rates. It is also noteworthy that the vast majority of the released defendants are either low (45%) or moderate risk (22%) to either Fail To Appear (FTA) or be re-arrested for a new crime while under pretrial release status.

Use of Special Conditions

The data files also contained information on the use of special conditions. Table 9 shows the extent to which they are being used with most of the conditions being drug testing and special monitoring requirements. We also looked at those persons who received the special conditions of drug testing, special monitoring and notification requirements but are low risk cases. These three conditions have the most low risk cases to do such an analysis. As shown in Table 10, about half of the special condition populations are scored as low risk. More significantly, these low risk cases have higher failure rates than the "average" low risk pretrial releasee. While one cannot say that the special conditions caused the higher rates, the statistical association suggests that imposing such conditions is not beneficial.

Can The Current Instrument Be Improved?

There are two areas to be explored here. First is whether the current instrument can be made more efficient by reducing the number of items being used by the staff? Making the instrument more parsimonious would reduce the burden to staff without jeopardizing the validity of the instrument. Second, are there any items that are not being used that might enhance the validity of the instrument?

To answer these two questions required more sophisticated multivariate analysis. The first task was to re-weight the items included in the current instrument. In doing so, a few considerations should be pointed out:

- 1. When there was a conflict among the risk models, e.g., a variable has a negative effect on FTA but a positive effect on re-arrest, the re-arrest risk measure model was used to trump the FTA risk model. Examples include items #1 and #4.
- In some cases, a slight change in the statistical significance cut-off value of 95% would have brought an item into the model (e.g., Risk Item 15). In such cases, the variable was included in the item in accordance with consideration 1 noted above.

Once a modified instrument was constructed, additional variables were included in the analysis—one variable group at a time—to assess their contribution to the discriminating power of the instrument. These additional variables included the following:

- 1. Substance abuse related questions: These variables did not add sufficiently to the model's predictive power and were therefore ignored.
- Mental health related questions: These variables did not add sufficiently to the model's predictive power and were therefore ignored.
- 3. Mental health history related questions: As a group, mental health history related questions improved the explanatory power of the model. However, individually only two of them were found to be statistically significant. These include "Received special

- education services in school for emotional/behavioral problems?" and "Spoken to counselor or psychologist about personal problem?".
- 4. Domestic violence related questions: As a group, domestic violence related questions did improve the models. However, only two of them were statistically significant individually. These included "Any record of prior DV restraining order") and "Was a weapon used?". However, only a handful (1.2%) of suspects in the sample had affirmative responses to these questions.
- 5. Removal of current risk instrument items: The current risk instrument included items 1 through 13. Items 14 and 15 "Violated conditions of release in past 12 months—and if so, was bond revoked?" were deleted from the revised current instrument. These items were either statistically insignificant or had incorrect effect directions. Similarly, item 3 added little to the predictive attributes of the instrument. So all three can be removed from further consideration.

Based on the above considerations, one new version of the instrument was developed which simply removed item 3 and re-weighted the remaining 12 items. In addition to new weights for the revised risk assessment instruments, the cut-points needed to classify suspects as low, moderate, or high risk were modified as well. Tables 10 and 11 show these changes and provide the cut-points for the 12-item instrument.

Finally, Figures 1, 2, and 3 provide a side-by-side comparison of the current and the revised instruments on risk measures. In general, the modified version performs basically the same as the current version of the risk assessment instrument but without using item 3. It should also be emphasized that although some of the other items that have a significant bi-variate relationship but were excluded form the final instrument can be used as a basis for over-riding the risk level or making a final risk recommendation.

TABLE 1
FAILURE RATE BY DEMOGRAPHICS

ltem	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
Base	38,478		8.0%	7.0%	14.1%
Sex					
Female	10,678	27.8%	7.7%	6.5%	13.3%
Male	27,695	72.0%	8.2%	7.3%	14.4%
Unknown	105	0.3%	3.8%	2.9%	5.7%
Race					
American Indian	117	0.3%	6.0%	3.4%	9.4%
Asian	64	0.2%	4.7%	3.1%	7.8%
Black	6,854	17.8%	9.8%	7.2%	16.0%
Other	738	1.9%	11.5%	2.0%	13.3%
Unknown	448	1.2%	5.8%	1.8%	7.4%
White	30,257	78.6%	7.6%	7.2%	13.8%
Marital Status					
Divorced	5,810	15.1%	7.6%	7.4%	13.9%
Married	7,889	20.5%	6.8%	6.2%	12.1%
Separated	2,501	6.5%	8.9%	8.3%	15.9%
Single	20,714	53.8%	8.5%	7.3%	14.9%
Unknown	1,112	2.9%	6.6%	3.1%	9.4%
Widowed	452	1.2%	8.8%	8.2%	15.7%
Education					
AA	607	1.6%	8.7%	6.1%	13.5%
BA/BS	906	2.4%	5.5%	4.0%	8.5%
Vocational	328	0.9%	7.6%	5.2%	11.9%
GED	3,760	9.8%	8.9%	8.9%	16.2%
HS	9,939	25.8%	7.4%	6.7%	13.3%
Less than HS	10,369	26.9%	9.1%	8.9%	16.8%
Null	6,782	17.6%	7.8%	4.8%	11.9%
Post graduate	334	0.9%	3.6%	3.6%	7.2%
Some college	5,453	14.2%	7.4%	6.6%	13.2%
On Supervised Probation					·
No	36,379	94.5%	8.0%	6.8%	13.9%
Yes	2,099	5.5%	8.6%	10.5%	17.8%
Supplied an email address					
No	30,215	78.5%	7.9%	6.6%	13.5%
Yes	8,263	21.5%	8.7%	8.6%	16.0%
Verified Address					
No	11,492	29.9%	8.9%	5.7%	13.3%
Yes	26,986	70.1%	7.7%	7.9%	14.4%
Verified Occupation					
No	12,504	32.5%	9.1%	5.5%	13.8%
Yes	25,974	67.5%	7.5%	7.8%	14.2%

TABLE 2
FAILURE RATE BY CHARGE

	I AIL	OKE KATE D	CHARGE		
Item	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
Base	38,478		8.0%	7.0%	14.1%
Charge Level					
Felony	9,122	23.7%	6.0%	10.1%	15.2%
Misdemeanor	26,346	68.5%	8.8%	6.4%	14.1%
0	1,512	3.9%	5.6%	2.8%	8.1%
٧	1,356	3.5%	9.5%	5.0%	13.6%
Unknown	152	0.4%	9.9%	3.3%	12.5%
Charge Class					
A	14,388	37.4%	7.5%	6.9%	13.3%
В	12,650	32.9%	9.9%	6.0%	14.9%
С	2,091	5.4%	4.7%	11.0%	14.5%
D	6,317	16.4%	6.7%	9.7%	15.5%
X	2,880	7.5%	7.5%	3.9%	10.7%
Unknown	152	0.4%	9.9%	3.3%	12.5%

TABLE 3
FAILURE RATE BY SUBSTANCE ABUSE ITEMS

ltem	N .	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
Base	38,478		8.0%	7.0%	14.1%
Have you ever felt you sh	nould cut down on yo	ur drinking?			
No	25,182	65.4%	8.1%	7.2%	14.3%
Yes	8,007	20.8%	7.8%	8.8%	15.4%
Null	5,289	13. 7 %	7.8%	3.7%	10.9%
Have people annoyed yo	u criticizing your drin	king/drug use	?		
No	29,230	76.0%	8.0%	7.2%	14.1%
Yes	3,959	10.3%	8.2%	10.3%	17.0%
Null	5,289	13.7%	7.8%	3.7%	10.9%
Have you felt guilty about	t your drinking/drug (ıse?			
No	26,649	69.3%	8.0%	7.1%	14.1%
Yes	6,540	17.0%	8.2%	9.5%	16.4%
Null	5,289	13.7%	7.8%	3.7%	10.9%
Drink in the morning to ge	et rid of hangover/us	e drugs to cha	ange effects of	other drugs	
No	30,997	80.6%	7.9%	7.4%	14.3%
Yes	2,165	5.6%	9.6%	10.4%	18.3%
Null	5,316	13.8%	7.8%	3.7%	10.9%
Willing to participate in re	sidential treatment				
No	27,179	70.6%	8.1%	7.1%	14.2%
Yes	6,008	15.6%	7.9%	9.8%	16.4%
Null	5,291	13.8%	7.8%	3.7%	10.9%

TABLE 4
FAILURE RATE BY MENTAL HEALTH ITEMS

FAILURE RATE BY MENTAL HEALTH ITEMS								
ltem	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest			
Base	38,478		8.0%	7.0%	14.1%			
Past 30 days how often of	lo you fee	l nervous						
None of the time	21,046	54.7%	8.1%	6.9%	14.1%			
A little of the time	3,856	10.0%	7.7%	8.1%	14.6%			
Some of the time	3,831	10.0%	7.9%	8.5%	15.2%			
Most of the time	1,716	4.5%	7.4%	9.1%	15.2%			
All of the time	2,737	7.1%	8.6%	10.0%	17.2%			
Null	5,292	13.8%	7.8%	3.7%	10.9%			
Past 30 days how often of	lo you fee	I hopeless						
None of the time	27,050	70.3%	8.0%	7.3%	14.3%			
A little of the time	2,195	5.7%	7.5%	8.0%	14.5%			
Some of the time	1,972	5.1%	8.6%	9.4%	16.7%			
Most of the time	870	2.3%	7.8%	8.6%	15.2%			
All of the time	1,099	2.9%	9.3%	10.3%	18.5%			
Null	5,292	13.8%	7.8%	3.7%	10.9%			
Past 30 days how often of	io you fee	l restless o	or fldgety		,			
None of the time	23,839	62.0%	8.2%	7.2%	14.3%			
A little of the time	2,839	7.4%	6.8%	7.7%	13.5%			
Some of the time	3,180	8.3%	8.1%	8.7%	15.6%			
Most of the time	1,364	3.5%	7.6%	9.0%	15.5%			
All of the time	1,964	5.1%	8.9%	9.4%	16.8%			
Null	5,292	13.8%	7.8%	3.7%	10.9%			
Past 30 days how often of								
None of the time	26,819	69.7%	8.1%	7.2%	14.3%			
A little of the time	2,088	5.4%	8.0%	9.2%	16.2%			
Some of the time	2,065	5.4%	7.5%	8.7%	15.5%			
Most of the time	939	2.4%	6.8%	9.4%	15.1%			
All of the time	1,275	3.3%	9.3%	8.5%	16.6%			
Nuli	5,292	13.8%	7.8%	3.7%	10.9%			
Past 30 days how often d								
None of the time	27,194	70.7%	8.0%	7.3%	14.3%			
A little of the time	1,742	4.5%	7.0%	9.8%	15.8%			
Some of the time	2,016	5.2%	9.1%	8.7%	16.4%			
Most of the time	908	2.4%	8.4%	8.1%	15.4%			
All of the time	1,326	3.4%	8.1%	8.7%	15.7%			
Null	5,292	13.8%	7.8%	3.7%	10.9%			
Past 30 days how often d								
None of the time	28,903	75.1%	8.1%	7.3%	14.4%			
A little of the time	1,344	3.5%	6.8%	10.5%	16.3%			
Some of the time	1,445	3.8%	8.7%	8.0%	15.6%			
Most of the time	598	1.6%	6.9%	8.9%	14.2%			
All of the time	896	2.3%	9.4%	9.6%	17.6%			
Null	5,292	13.8%	7.8%	3.7%	10.9%			

TABLE 5
FAILURE RATE BY MENTAL HEALTH HISTORY

Item	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
Base	38,478		8.0%	7.0%	14.1%
Has doctor prescribed meds for emotional problem					
No	24,337	63.2%	8.0%	7.0%	14.1%
Yes	8,547	22.2%	8.0%	9.3%	15.9%
Have you been hospitalized for emotional problem			•		
No .	29,448	76.5%	8.0%	7.3%	14.2%
Yes	3,443	8.9%	8.7%	10.0%	17.3%
Did you have special schooling for emotional problems					
No	30,953	80.4%	8.0%	7.3%	14.3%
Yes	1,937	5.0%	9.6%	11.6%	20.0%
Ever spoken to a counselor or psychologist					
No	24,335	63.2%	8.0%	6.9%	14.0%
Yes	8,551	22.2%	8.2%	9.4%	16.3%
Ever received treatment for drug/alcohol abuse					
No	26,476	68.8%	8.0%	7.1%	14.1%
Yes	6,417	16.7%	8.3%	9.8%	16.7%

TABLE 6
FAILURE RATE BY RISK ASSESSMENT SCORE ITEMS

FAILURE RATE BY RISK ASSESSMENT SCORE ITEMS								
Item	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest			
1. Verified local a	ddress & li	ved in area	for past 1	2 months				
No	2,856	7.4%	11.1%	6.3%	16.5%			
Yes	24,227	63.0%	7.2%	8.1%	14.2%			
2. Verified sufficient	ent means	of support	· · · · · · · · · · · · · · · · · · ·					
No	13,798	35.9%	8.4%	9.1%	16.2%			
Yes	13,287	34.5%	6.9%	6.7%	12.7%			
3. Reference ver	ified willing	ness to atte	end court o	r sign suret	y bond			
No	2,195	5.7%	8.7%	9.2%	16.5%			
Yes	24,889	64.7%	7.6%	7.8%	14.3%			
4. Current charge	class A, E	or C felon	У					
No	24,404	63.4%	8.0%	7.5%	14.4%			
Yes	2,677	7.0%	4.6%	11.3%	14.8%			
5. Charged w/ ne	w offense	while case	pending					
No	21,258	55.2%	6.9%	5.6%	11.7%			
Yes	5,822	15.1%	10.5%	16.4%	24.5%			
6. Active warrant	or prior FT	A	<u> </u>					
No	22,325	58.0%	6.6%	7.5%	13.2%			
Yes	4,753	12.4%	12.5%	9.7%	20.3%			
7. Prior FTA for ti	raffic violati	on						
No	22,465	58.4%	6.9%	7.4%	13.4%			
Yes	4,614	12.0%	11.5%	10.1%	19.7%			
8. Prior misdeme	anor convi	ction						
No	8,769	22.8%	6.3%	4.7%	10.4%			
Yes	18,311	47.6%	8.3%	9.4%	16.4%			
9. Prior felony co	nviction							
No	20,416	53.1%	7.1%	6.9%	13.1%			
Yes	6,664	17.3%	9.3%	10.9%	18.6%			
10. Prior violent o	rime convi	ction						
No	21,770	56.6%	7.4%	7.0%	13.4%			
Yes	5,309	13.8%	8.7%	11.6%	18.8%			
11. History of dru	g/alcohol a	buse						
No	23,865	62.0%	7.5%	7.2%	13.7%			
Yes	3,214	8.4%	9.1%	13.0%	20.4%			
12. Prior conviction		/ escape						
No	26,536	69.0%	7.6%	7.8%	14.2%			
Yes	541	1.4%	12.6%	14.4%	25.0%			
13. On probation	parole for	felony conv	viction					
No	24,933	64.8%	7.5%	7.6%	14.0%			
Yes	2,142	5.6%	9.6%	11.0%	19.4%			

Item	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
14. Test Item: V	iolated cond	itions of pre	etrial relea	se in last 12	mos.
No	32,516	84.5%	8.1%	7.4%	14.5%
Yes	671	1.7%	7.6%	14.0%	20.3%
15. Test Item: If	yes, was bo	nd revoked	?		
No	32,383	84.2%	8.0%	7.6%	14.6%
Yes	153	0.4%	5.2%	11.1%	15.7%

TABLE 7
FAILURE RATE BY RISK ASSESSMENT SCORE

	TAILORE RATE DE RISK ASSESSMENT SCORE								
Risk Score	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest				
Base	38,478		8.0%	7.0%	14.1%				
0	2,898	7.5%	4.0%	2.9%	6.8%				
1	4,909	12.8%	4.9%	3.9%	8.4%				
. 2	3,863	10.0%	6.5%	5.0%	10.8%				
3	2,143	5.6%	7.0%	6.8%	12.7%				
4	1,780	4.6%	7.1%	6.1%	12.1%				
5	1,838	4.8%	8.9%	8.3%	16.4%				
6	2,066	5.4%	8.9%	9.8%	17.4%				
7	1,887	4.9%	9.9%	11.3%	19.3%				
8	1,292	3.4%	10.8%	13.1%	22.0%				
9	1,074	2.8%	11.6%	14.5%	23.9%				
10	878	2.3%	10.6%	13.8%	22.0%				
11	798	2.1%	12.4%	15.2%	24.6%				
12	620	1.6%	12.1%	14.5%	25.0%				
13	360	0.9%	11.7%	17.5%	26.9%				
14	261	0.7%	13.0%	16.9%	26.8%				
15	166	0.4%	10.2%	12.1%	28.3%				
16	123	0.3%	15.4%	18.7%	30.9%				
17	79	0.2%	11.4%	20.3%	29.1%				
18	36	0.1%	11.1%	13.9%	25.0%				
19+	18	0.0%	7.1%	35.7%	39.9%				
Null	11,389	29.6%	8.9%	5.0%	13.2%				

TABLE 8
FAILURE RATE BY SCORED RISK LEVEL

		<u> </u>	JO:125 :110	,,,	
Risk Level	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest
Base	38,478		8.0%	7.0%	14.1%
Low	17,311	45.0%	6.0%	5.0%	10.4%
Moderate	8,519	22.1%	10.4%	12.5%	20.9%
High	1,031	2.7%	12.1%	18.3%	57.8%
Ineligible	5,722	14.9%	8.4%	4.0%	11.8%
Not Verified	5,895	15.3%	9.4%	6.2%	14.8%

TABLE 9
FAILURE RATE BY RELEASE CONDITIONS

FAILURE RATE BY RELEASE CONDITIONS									
Item	N	%	FTA rate	Rearrest Rate	Either FTA or Rearrest				
Base	38,478		8.0%	7.0%	14.1%				
Condition - Drug test									
No	37,621	97.8%	8.0%	6.9%	13.9%				
Yes	857	2.2%	7.4%	14.6%	20.3%				
Condition – Reporting									
No	37,253	96.8%	8.0%	6.8%	13.9%				
Yes	1,225	3.2%	8.5%	13.1%	20.4%				
Condition - Court Notify									
No	38,304	99.5%	8.0%	7.0%	14.1%				
Yes	174	0.5%	10.3%	10.3%	17.8%				
Condition - Curfew									
No	38,339	99.6%	8.0%	7.0%	14.1%				
Yes	139	0.4%	6.5%	13.7%	17.3%				
Condition - Home incarceration									
No	38,455	99.9%	8.0%	7.0%	14.1%				
Yes	23	0.1%	8.7%	8.7%	17.4%				
Condition - Mental health treatment									
No	38,471	100.0%	8.0%	7.0%	14.1%				
Yes	7	0.0%	14.3%	28.6%	28.6%				
Condition - drug/alcohol treatment									
No	38,455	99.9%	8.0%	7.0%	14.1%				
Yes	23	0.1%	4.3%	17.4%	21.7%				
Condition - Other									
No	38,251	99.4%	8.0%	7.0%	14.0%				
Yes	227	0.6%	17.2%	12.3%	25.6%				

Table 10
SUPERVISION CONDITIONS VS. RISK LEVEL

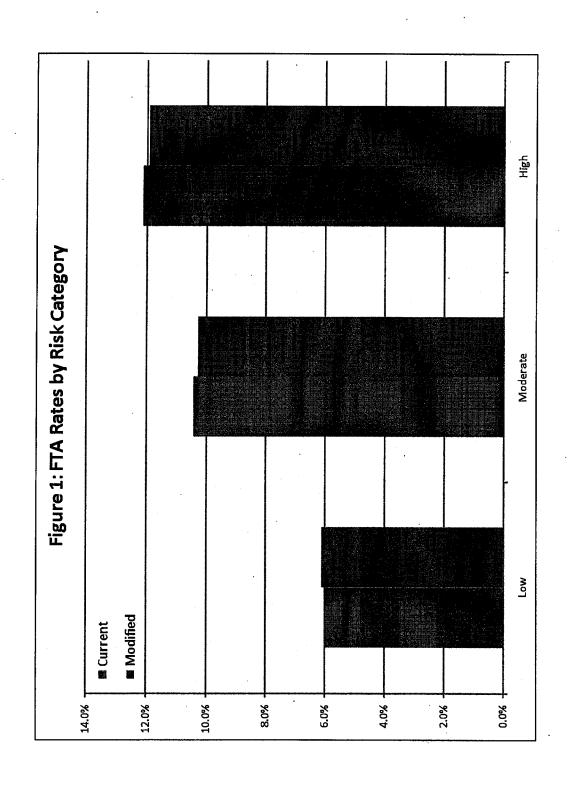
Yes Condition	N	% of Special Conditions	FTA rate	Rearrest Rate	Either FTA or Rearrest
All Low Risk	17,311		6.0	5.0	10.4
Low Risk Condition - Drug test	419	49%	7.2%	8.1%	14.3%
Low Risk Condition - Reporting	565	46%	3.4%	8.1%	13.6%
Low Risk Condition - Notification	82	47%	7.3%	6.1%	11.0%

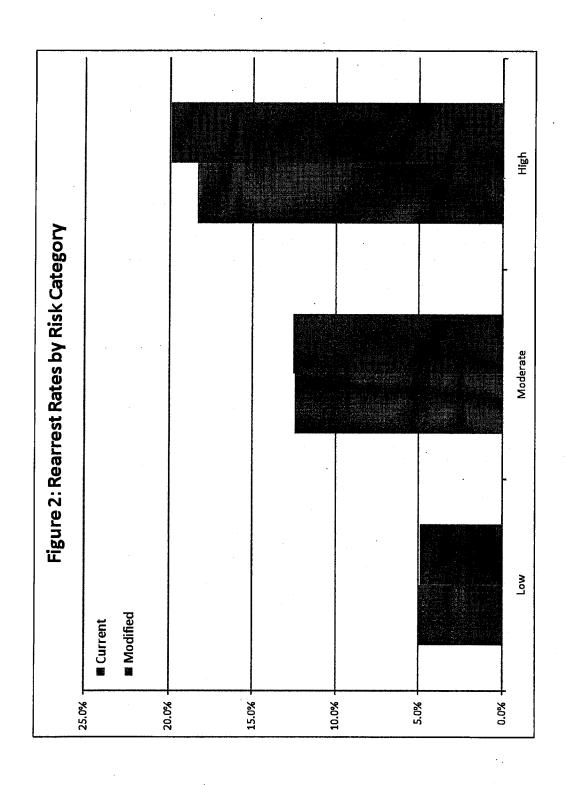
Table 11
The Current And New Weighting Rules For The Revised Pretrial Risk Assessment Instrument.

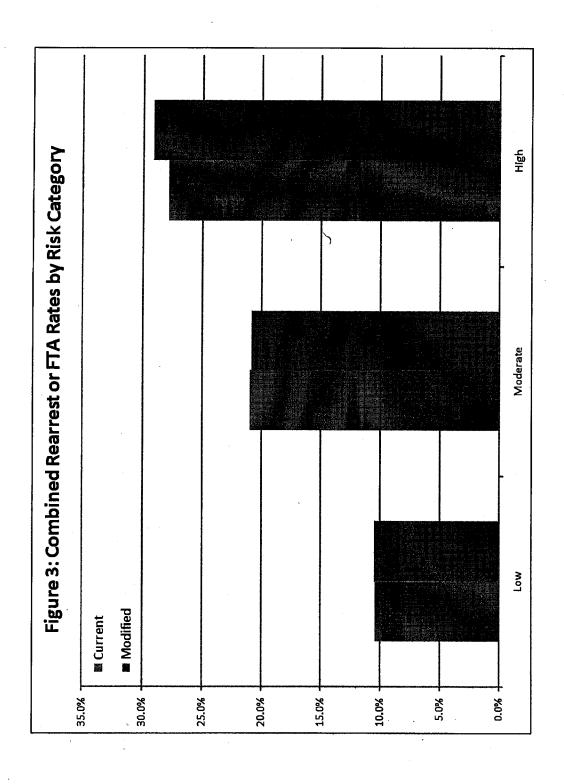
	Scoring Items	Current		Modified	
		Yes	No	Yes	No
1	Does the defendant have a verified local address and has the defendant lived in the area for the past twelve months?		1		2
2	Does the defendant have verified sufficient means of support?		1		1
3	Did a reference verify that he or she would be willing to attend court with the defendant or sign a surety bond?	1 Removed		ved	
4	Is the defendant's current charge a Class A, B, or C Felony?	1		1	
5	Is the defendant charged with a new offense while there is a pending case?	5		7	
6	Does the defendant have an active warrant(s) for Failure to Appear prior to disposition? If no, does the defendant have a prior FTA for felony or misdemeanor?	4		2	
7	Does the defendant have prior FTA on his or her record for a criminal traffic violation?	.1		1	
8	Does the defendant have prior misdemeanor convictions?	1		2	
9	Does the defendant have prior felony convictions?	1		1	
10	Does the defendant have prior violent crime convictions?	2		1	
11	Does the defendant have a history of drug/alcohol abuse?	2		2	
12	Does the defendant have a prior conviction for felony escape?	1		3	
13	Is the defendant currently on probation/ parole from a felony conviction?	2		1	
	Did you receive special education services in school for an emotional or behavioral problem?	Not Used			
	Have you ever spoken to a counselor or psychologist about a personal problem?				
, , , , , , , , , , , , , , , , , , , ,	Violated conditions of pretrial release in last 12 mos	Not Used			
	If yes, was bond revoked?	Not Used			

Table 12:
The Current And New Cut-Points For The Revised Pretrial Risk Assessment Instrument

	Current	Modified
Low	0-5	0-5
Moderate	6-12	6-13
High	13-High	14-High







TAB 5

Appendix C

REVISED VIRGINIA PRETRIAL RISK ASSESSMENT TOOL

	SED VIRGINIA	FREIRIAL RISK ASSESSI	ILDIVI		T ~
Risk Factor		Criteria Assigned Points		Score	
1. Charge Type	If the current offense is a drug offense (MCS,			1 Point	
	DCS, PCS, incl	uding attempts) or is an offe	nse		
	charged under	ORS Chapter 166 or 181.			
2. Pending	If the defendant had one or more charge(s)			1 Point	
Charges	pending in cou	rt at the time of arrest.			
3. Outstanding		t had one or more warrant(s)	1 Point	
Warrant(s)	1	another locality for charges			
	_ 	e current arrest.			
4. Criminal		t had one or more misdemea	nor	1 Point	
History	or felony convi				
5. Two or more		t had two or more failure to	•	2 Points	
Failure to Appear	appear events.				
Events					
6. Current		t has had three or more add	ress	1 Point	
Residence	changes in the				
7. Employment		t is employed, in school, or		1 Point	
		ged as a primary caregiver fo	or a		
		an 20 hours per week.	· · ·		
8. History of Drug	If the defendan	t has a history of drug abuse	·•	1 Point	
Abuse					
SCORE					
Risk Score		5 - 6			
Appearance Rate		75%	457	.7.7.248 (6)	
Safety Rate	1(0)(2%	93%		(219) 146	
Success Rate	\$70.0%	59%		20%	
Presumptive					
Release Decision	Release on	Release to PRS	Refer	to PRS	Detain
·	Recognizance	•			
Risk Level	Low	Medium	High		
Supervision	None	Basic Monitoring	Pretrial Supervision		vision
,		-Phone Reporting	Phon	e Reporting	weekly
		-Check-in physically after	-Che	ck-in physic	ally
		court appearances	after	court appea	rances
	1 .	-LEDS Monitoring	-LED	S Monitori	ng
		-Case management	-Case management		
		meetings as needed		ings as need	
			-Substance testing if		g if
•			order		
				tronic moni	
	l	· ·	-Hon	ie/field visit	S

ASSESSMENT: The defendant's risk score of is consistent with defendants with a success rate of and safety rate of The defendant's criminal history includes (similar, varied, unrelated) offenses in the past 3 years and lifetime. The defendant has prior FTA's in the past 3 years, and lifetime.
Factors to consider indicating the possibility of violations if released:
RECOMMENDATION:
Defendant be released on their own Recognizance
Defendant be released to Pretrial Release Services, with the following special conditions:
0
0
Defendant be referred to PRS for further investigation, e.g., establish victim safety plan, verify alternate housing and/or treatment resources, Release be denied. It does not appear any conditions of supervision would be adequate to assure that the defendant would comply with the terms of pretrial release.
Pretrial Case Manager Date

Appendix G

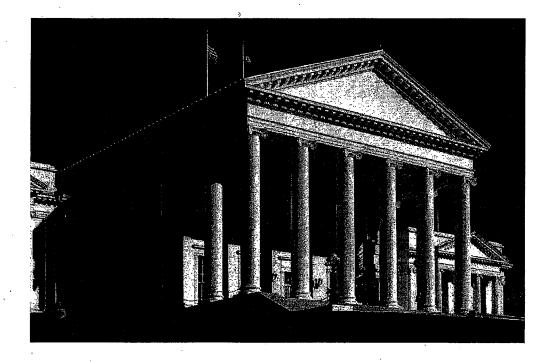
Virginia Pretrial Risk Assessment Instrument

	Instrument Com	pletion Date
First Name	Last Name	Race
SSN		DOB
Arrest Date		A.
Charge(s)		
Bond Type	Bond Amount	
Risk Factors		
1. Charge Type	Fieldny	or Misdemeanor
2. Pending Charge(s)	Yes or	No
3. Outstanding Warrant(s)	Yes or	No.
4. Criminal History	Yes or	No
5. Two or More Failure to Appear Convig	ions Yes or	No
6. Two or More Violent Convictions 🥨	Yes or	No
7. Length at Current Residence	Léss th	an 1 Year or 1 Year or More
8. Employed/ Primary Child Caregiver	Yes or	No
9. History of Drug Abuse	Yes or	No
Risk Level	3 4	5
low	AVERAGE	HIGH
Risks[actor(s))		
		•
Comments/Recommendations	***************************************	•

The second secon		wangari Panasi
Ut acguides and the	Thit emospheria is charge by the source transet. I was atteory	i I primi
chancing charge (s)	if the steer than the bar or proper charge (steer) is a resulting the court at the bine of the arrester (see	
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PRETRIAL RISK ASSESSMENT IN VIRGINIA



May 1, 2009

The Virginia Pretrial Risk Assessment Instrument



Sponsored by the Virginia Department of Criminal Justice Services in Partnership with the Virginia Community Criminal Justice Association

Research Conducted and Report Provided by Luminosity, Inc.

Marie VanNostrand, Ph.D. Kenneth J. Rose Luminosity, Inc. wishes to acknowledge the leadership of the Department of Criminal Justice Services (DCJS) and the Virginia Community Criminal Justice Association (VCCJA) in advancing the research and practices of pretrial services in the Commonwealth of Virginia and for serving as a model for other localities and states across the country. The success of this project is a direct result of the hard work and expertise of the many individuals who participated in the validation study and revised the Virginia Pretrial Risk Assessment Instrument (VPRAI). We apologize in advance for any omission in the list of those individuals acknowledged below.

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Pretrial Risk Assessment in Virginia

THE VIRGINIA PRETRIAL RISK ASSESSMENT INSTRUMENT (VPRAI)

BACKGROUND

There are currently 29 pretrial services agencies serving 80 of Virginia's 134 cities and counties. All Virginia pretrial services agencies operate under the authority of the Pretrial Services Act¹ and are funded in whole or part by the Virginia Department of Criminal Justice Services (DCJS). DCJS administers general appropriation funds designated for the purpose of supporting the Pretrial Services Act (PSA) as discretionary grants to local units of government.

The field of pretrial services contains two primary sub-fields; pretrial release and pretrial diversion. Pretrial release generally involves the provision of information to judicial officers to assist them in making the pretrial release/detention decision, as well as the monitoring and supervision of persons released from custody while awaiting disposition of criminal charges. Pretrial diversion is a dispositional alternative for pretrial defendants. Defendants voluntarily enter into a diversion program in lieu of standard prosecution and court proceedings. Virginia pretrial services agencies provide pretrial release related services and do not provide pretrial diversion related services.²

The Pretrial Services Act was enacted into law with the purpose of providing more effective protection of society by establishing pretrial services agencies that will assist judicial officers in discharging their duties related to determining bail. The Act states that "such agencies are intended to provide better information and services for use by judicial officers in determining the risk to public safety and the assurance of appearance of persons ... other than an offense punishable by death, who are pending trial or hearing." In addition, in accordance with Virginia Code § 19.2-152.3 the Department of Criminal Justice Services was required to develop risk assessment and other instruments to be used by pretrial services agencies in assisting judicial officers in discharging their duties relating to determining bail for pretrial defendants.

The duties and responsibilities of pretrial services agencies are detailed in Virginia Code § 19.2-152.4:3 - Duties and responsibilities of local pretrial services officers. Pretrial services agencies are required to supervise and assist all defendants placed on pretrial supervision by any judicial officer to ensure compliance with the terms and conditions of bail. In order to assist judicial officers in discharging their duties related to determining bail for pretrial defendants, pretrial services officers are required to provide the following services:

¹ Article 5 (§19.2-152.2 et seq.) of Chapter 9 of Title 19.2

² The primary distinction between pretrial release and diversion is the nature of participation on the defendant's part. Participation in pretrial diversion is voluntary whereas the pretrial release decision and the setting of terms and conditions of release are a result of a judicial decision regarding the defendant. Pretrial release allows for the defendant to be monitored in the community while following the standard court process pending trial, whereas pretrial diversion allows the defendant to voluntarily enter into a diversion program and avoid standard prosecution. Should a defendant fail diversion, however, he will be returned to the court process for prosecution. See Marie VanNostrand, Ph.D. Legal and Evidence-based Practices: Application of Legal Principles, Laws, and Research to the Field of Pretrial Services (National Institute of Corrections and Crime and Justice Institute, 2007)

- Investigate and interview defendants arrested on state and local warrants and who are
 detained in jails located in jurisdictions served by the agency while awaiting a hearing before
 any court that is considering or reconsidering bail, at initial appearance, advisement or
 arraignment, or at other subsequent hearings; and
- 2. Present a pretrial investigation report with recommendations to assist courts in discharging their duties related to granting or reconsidering bail.

Consistent with the Code of Virginia, the Virginia Department of Criminal Justice Services in partnership with the Virginia Community Criminal Justice Association and Luminosity, Inc., developed, implemented, and validated the Virginia Pretrial Risk Assessment Instrument (VPRAI) for use by pretrial services agencies. An overview of pretrial risk assessment generally, the development and validation of the VPRAI, and instructions for instrument completion are provided in this report.

PRETRIAL RISK ASSESSMENT

The purpose of a pretrial risk assessment instrument is to identify the likelihood of failure to appear in court and the danger to the community posed by a defendant pending trial. A pretrial risk assessment instrument should use research-based objective criteria to identify the likelihood of failure to appear in court and danger to the community pending trial.³

The use of an objective and research-based risk assessment instrument by pretrial services agencies to assist judicial officers in making bail decisions is strongly recommended by both American Bar Association⁴ and National Association of Pretrial Services Agencies⁵ Standards. Additionally, pretrial risk assessment instruments should be consistent with the concept of Pretrial Justice.⁶

Pretrial risk assessment research conducted over the past 30 years has identified common factors that are predictive of failure to appear in court and/or danger to the community including the following:

- ♦ Current Charge(s)
- ♦ Pending Charges at Time of Arrest
- History of Criminal Arrests and Convictions
- ◆ Active Community Supervision at Time of Arrest (e.g. Pretrial, Probation, Parole)
- ♦ History of Failure to Appear
- ♦ History of Violence
- ♦ Residence Stability
- Employment Stability
- ♦ Community Ties
- ♦ Substance Abuse

Pretrial Justice

The honoring of the presumption of innocence, the right to bail that is not excessive, and all other legal and constitutional rights afforded to accused persons awaiting trial while balancing these individual rights with the need to protect the community, maintain the integrity of the judicial process, and assure court appearance

In fact, the largest study on pretrial risk assessment was recently completed for the federal court system. An analysis of over 500,000 cases processed through the federal pretrial services system between fiscal years 2001 and 2007 revealed the best predictors of pretrial failure (failure to appear and/or being a danger to the community pending trial) included primary charge, pending charges, prior misdemeanor arrests, prior felony arrests, prior failures to appear, employment status, residence status, and substance abuse.⁷

³ National Institute of Justice, Pretrial Services Programs: Responsibilities and Potential (Washington, D.C.: U.S. Department of Justice, U.S. Government Printing Office, 2001) pg.46 "Programs that assess risks of pretrial misconduct in an exclusively subjective manner are more than twice as likely to have a jail population that exceeds its capacity than those programs that assess risk exclusively through an objective risk assessment instrument—56 percent, compared to 27 percent. Forty-seven percent of programs that add subjective input to an objective instrument are in jurisdictions with overcrowded jails."

⁴ American Bar Association Standards for Criminal Justice Standards on Pretrial Release, Third Edition (2002)

⁵ National Association of Pretrial Services Agencies Standards on Pretrial Release, Third Edition (2004)

VanNostrand, Marie and Gena Keebler. Our Journey Toward Pretrial Justice in Federal Probation, Volume 71, Number 2, (September 2007) pp. 20-25

⁷ VanNostrand, Marie and Gena Keebler. Pretrial Risk Assessment in the Federal Court: For the Purpose of Expanding the Use of Alternatives to Detention (Department of Justice, Office of Federal Detention Trustee, 2009)

Pretrial risk assessment instruments must be guided by Pretrial Services Legal and Evidence-based Practices.⁸ Pretrial Services Legal and Evidence-based Practices are interventions and practices that are consistent with the legal and constitutional rights afforded to accused persons awaiting trial and methods research have proven to be effective in reducing unnecessary detention while assuring court appearance and the safety of the community during the pretrial stage. There are guiding practices for pretrial risk assessment development according to LEBP.

 A pretrial risk assessment instrument should be proven through research to predict risk of failure to appear and danger to the community pending trial - An appropriate risk assessment

instrument for pretrial services is one that is developed using generally accepted research methods to predict the likelihood of failure to appear and danger to the community pending trial. A pretrial risk assessment instrument should be validated to ensure it is an accurate predictor of pretrial risk in the community or communities in which it is being applied.

2. The instrument should equitably classify defendants regardless of their race, ethnicity, gender, or financial status - An instrument that is proven through research to effectively predict the likelihood of failure to appear and danger to the community for an entire population may also be found to result in disparate classification and treatment of certain defendants. For example, an instrument may accurately categorize defendants generally, but may also over-classify defendants of a particular race or socioeconomic status. Overclassification involves the classification of a group of defendants into higher risk levels than the actual risk level of the group. The result of such over-classification is the unequal and unfair treatment of certain defendants; frequently minorities and the poor. A risk assessment instrument should be proven through research methods to equitably classify defendants regardless of their race, ethnicity, gender or financial status.9

Pretrial Services Legal and **Evidence-based Practices** are interventions and practices that are consistent with the legal and constitutional rights afforded to accused persons awaiting trial and methods research have proven to be effective in reducing unnecessary detention while assuring court appearance and the safety of the community during the pretrial stage

3. Factors utilized in the instrument should be consistent with applicable state statutes - Bail statutes and pretrial services acts, if applicable, should be consulted to ensure that factors included in a pretrial risk assessment instrument are allowable for the purposes of bail consideration.

An objective and research-based risk assessment instrument is intended to identify (1) "low risk" defendants who can be safely released into the community with limited or no conditions pending trial; (2) "moderate" and "higher" risk defendants whose risk can be minimized by utilizing appropriate release conditions, community resources, and/or interventions upon release; and (3) the "highest risk"

⁸ Marie VanNostrand, Ph.D. Legal and Evidence-based Practices: Application of Legal Principles, Laws, and Research to the Field of Pretrial Services (National Institute of Corrections and Crime and Justice Institute, 2007)

⁹ See Marle VanNostrand, Ph.D. Assessing Risk Among Pretrial Defendants in Virginia: The Virginia Pretrial Risk Assessment Instrument (Richmond, VA: Virginia Department of Criminal Justice Services, 2003) pp. 11-14 for a research methods model of ensuring equitable classification of groups

defendants, those for whom no condition or combination of conditions can reasonably assure the safety of the community or appearance in court, so they can be detained pending trial.

The intended use of an objective and research-based pretrial risk assessment instrument is consistent with the evidence-based practice "risk principle." As it relates to the post-conviction field, research has demonstrated that evidence-based interventions directed towards offenders with a moderate to high risk of committing new crimes will result in better outcomes for both offenders and the community. Conversely, treatment resources targeted to low-risk offenders produce little, if any, positive effect. In fact, despite the appealing logic of involving low-risk individuals in intensive programming to prevent them from graduating to more serious behavior, numerous studies show that certain programs may actually worsen their outcomes. By limiting supervision and services for low-risk offenders and focusing on those who present greater risk, probation and parole agencies can devote limited treatment and supervision resources where they will provide the most benefit to public safety. 10

Recent research conducted specifically for pretrial defendants confirms the applicability of this principle to the pretrial services field. The pretrial risk assessment study for the federal court referenced above also examined the use of alternatives to pretrial detention including, but not limited to, the following: third-party custodian, substance abuse testing, substance abuse treatment, location monitoring, halfway house, community housing or shelter, mental health treatment, sex offender

treatment, and computer monitoring. The research examined the effectiveness of the alternatives to pretrial detention while considering risk and the most significant findings are provided

below.

Release conditions that include alternatives to pretrial detention - with the exception of mental health treatment, when appropriate - generally decrease the likelihood of success pending trial for lower risk defendants and should be required sparingly.

- Alternatives to pretrial detention are most appropriate for moderate and higher risk defendants as it allows for pretrial release while generally increasing pretrial success. Alternatives to pretrial detention should be imposed for this population when a defendant presents a specific risk of pretrial failure that can be addressed by a specific alternative.
- Defendants identified as moderate and higher risk are the most suited for pretrial release – both programmatically and economically - with conditions of alternatives to pretrial detention. The pretrial release of these defendants can be maximized by minimizing the likelihood of pretrial failure through participation in alternatives to detention.

Lower risk defendants who were required to participate in alternatives to detention pending trial were more likely to fail pending trial

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Moderate and higher risk defendants who were required to participate in alternatives to detention pending trial were more likely to succeed pending trial

¹⁰ Putting Public Safety First: 13 Strategies for Successful Supervision and Reentry (The Pew Center on the States, 2008).

A pretrial risk assessment serves as the foundation for a recommendation regarding bail. Pretrial services agencies are tasked with identifying the least restrictive terms and conditions of bail that will reasonably assure a defendant will appear for court and not present a danger to the community pending trial. Recommendations regarding bail are guided by statute (Virginia Code §19.2-123), pretrial services legal and evidence-based practices, and the evidence-based practice "risk principle."

ORIGINAL VIRGINIA PRETRIAL RISK ASSESSMENT INSTRUMENT (VPRAI)

The Virginia Pretrial Risk Assessment Instrument was developed in accordance with the statutory requirement for the Department of Criminal Justice Services to develop risk assessment and other instruments to be used by pretrial services agencies in assisting judicial officers in discharging their duties relating to determining bail for pretrial defendants. The purpose of the VPRAI is to identify the likelihood of failure to appear in court and the danger to the community posed by a defendant pending trial and to assist pretrial officers in making a bail recommendation.

A brief summary of the VPRAI development and implementation is provided here. See the document Assessing Risk among Pretrial Defendants in Virginia: the Virginia Pretrial Risk Assessment Instrument for a complete description of the instrument development.¹¹

Dataset

The dataset used to conduct the research was collected from a sample of defendants arrested in select Virginia localities between July 1, 1998 and June 30, 1999. The defendants were arrested in one of seven localities: Hampton, Fredericksburg, Spotsylvania, Emporia, Brunswick, Sussex, and Greensville. The localities included in the dataset varied substantially in community characteristics including: community type (urban, rural, and suburban); number of persons, households, and families; sex; race; median family income; percentage of people below poverty level; and education level.

Data were collected from a number of sources including those listed below.

- 1. Personal interviews were conducted with defendants, either face-to-face or by video teleconference, after arrest and prior to the initial bail hearing with a judicial officer.
- Arrest warrants, criminal history records (i.e., National Criminal Information Center [NCIC], Virginia Criminal Information Network [VCIN], Department of Motor Vehicles [DMV], Virginia Court Automated Information System [CAIS], local police records), and court records were reviewed.
- 3. References provided by the defendant were contacted to verify certain information.
- 4. Current and prior adult criminal justice supervision records were consulted as needed.

The final sample used for the analysis included 1,971 adults (18 years or older or juveniles previously certified as adults by the Court) arrested for one or more jailable offense(s) (Class I and II misdemeanors, unclassified misdemeanors that carry a penalty of jail time, and all felonies), who were released pending trial. The cases were tracked until final disposition through the use of court and other official records to determine the pretrial outcome. The dataset was finalized in 2001.

Variables

Pretrial outcome – success or failure pending trial – was the dependent variable. Consistent with the intent of bail, pretrial failure was defined as failing to appear for court and/or being a danger to the community pending trial. Failure to appear was measured by a defendant's failure to appear for a scheduled court appearance pending trial which resulted in the issuance of a capias. Danger to the

¹¹ Marie VanNostrand, Ph.D. Assessing Risk Among Pretrial Defendants in Virginia: The Virginia Pretrial Risk Assessment Instrument (Richmond, VA: Virginia Department of Criminal Justice Services, 2003)

community was measured by the presence of a new arrest for a crime that was allegedly committed while the defendant was released pending trial. Defendants who were deemed to have failed to appear and/or to have been a danger to the community pending trial were classified "failure" and those defendants who experienced neither and remained in the community during the entire time pending trial were classified "successful."

There were 50 variables classified as independent variables (risk factors), which were measures of the following: demographic characteristics, physical and mental health, substance abuse, residence, transportation, employment and school status, income, the charge(s) against the defendant, and criminal history.

Methodology and Results

The analysis consisted of univariate, bivariate, and multivariate analysis. The univariate analysis including descriptive statistics of the dependent variable (pretrial outcome – success or failure pending trial) and each independent variable (risk factor). The bivariate analysis included an examination of the relationship between each risk factor and pretrial outcome. The risk factors found to be statistically significantly related to pretrial outcome were identified and used to conduct the multivariate analysis. The multivariate technique logistic regression was used to identify nine. statistically significant predictors of pretrial outcome.

- 1. Primary Charge Type Defendants charged with a felony are more likely to fail pending trial than defendants charged with a misdemeanor.
- 2. Pending Charge(s) Defendants who have pending charge(s) at the time of their arrest are more likely to fail pending trial.
- 3. Outstanding Warrant(s) Defendants who have outstanding warrant(s) in another locality for charges unrelated to the current arrest are more likely to fail pending trial.
- 4. Criminal History Defendants with at least one prior misdemeanor or felony conviction are more likely to fail pending trial.
- 5. Two or More Failure to Appear Convictions Defendants with two or more failure to appear convictions are more likely to fail pending trial.

predictors of pretrial outcome include -Primary Charge Type

The statistically significant

- √ Pending Charge(s)
- ✓ Outstanding Warrant(s)
- ✓ Criminal History
- ✓ Prior Failures to Appear
- ✓ Prior Violent Convictions
- ✓ Length at Current Residence
- ✓ Employment/Primary Child
- Caregiver Status ✓ History of Drug Abuse
- Two or More Violent Convictions Defendants with two or more violent convictions are more likely to fail pending trial.
- 7. Length at Current Residence Defendants who have lived at their current residence for less than one year are more likely to fail pending trial.
- 8. Employed/Primary Child Caregiver Defendants who have not been employed continuously at one or more jobs during the two years prior to their arrest or who are not the primary caregiver for a child at the time of their arrest are more likely to fail pending trial.
- 9. History of Drug Abuse Defendants with a history of drug abuse are more likely to fall pending trial.

Based on the logistic regression model results the risk factors were assigned weights or "points." The points included 1 point for all factors, with the exception of Two or More Failure to Appear Convictions, which was assigned 2 points due to the predictive strength of the risk factor. The points were totaled to create a score from 0 to 10. The scores were then used to create risk levels. As a result, the VPRAI consists of five risk levels including low, below average, average, above average, and high as shown in the following figure.

Risk % Failure to New Total Risk Level Population Score Appear Arrest Failure 0, 1 471 Low 24% 4% 6% 10% Average 3 412 21% 11% 16% 27% 240V/ High 5 - 10295 37% 15% 16% 53%

Figure 1. Risk Levels and Pretrial Outcome

Data Source: Virginia Department of Criminal Justice Services, VPRAI access database. Sample of defendants arrested in select Virginia localities between July 1, 1998 and June 30, 1999. The defendants were arrested in one of seven localities: Hampton, Fredericksburg, Spotsylvania, Emporia, Brunswick, Sussex, and Greensville. n= 1,971

Source: Assessing Risk Among Pretrial Defendants in Virginia: The Virginia Pretrial Risk Assessment Instrument (Richmond, VA: Virginia Department of Criminal Justice Services, 2003)

Implementation

The instrument was completed in 2002 and automated in the statewide Pretrial and Community Corrections Case Management System (PTCC). The VPRAI was implemented by all Virginia pretrial services agencies using a phased in approach between July 2003 and December 2004. Implementation included pilot testing, onsite training to all agency staff and local community criminal justice boards, and post-implementation technical assistance and support. An instruction manual, investigation guide and training and resource manual were developed to assist the agencies in the successful implementation of the pretrial risk assessment instrument.¹²

¹² See the Virginia Pretrial Investigation Guide, Virginia Pretrial Training and Resource Manual, and Virginia Pretrial Risk Assessment Instruction Manual - http://www.dcjs.virginia.gov/corrections/resources.cfm?menuLevel=5&mlD=13

VPRAI VALIDATION

By January 2005 all pretrial services agencies in Virginia were using the VPRAI to identify the likelihood of failure to appear in court and the danger to the community posed by a defendant pending trial and to assist pretrial officers in making a bail recommendation. After two years of statewide use the Virginia Department of Criminal Justice Services and the Virginia Community Criminal Justice Association partnered with Luminosity, Inc. to conduct a validation study. The primary purpose of validation is to confirm predictive validity — in this case that the instrument is able to predict future failure to appear for court and danger to the community pending trial for defendants in Virginia. Although the original instrument was research based, it remains desirable to confirm the predictive validity and ensure that circumstances that can change over time (e.g. crime patterns, law enforcement practices, drug usage, population demographics) have not impacted the accuracy of the instrument.

A VPRAI Validation Advisory Committee was formed to spearhead this initiative. The committee was composed of DCJS staff members and representatives from 10 pretrial services agencies. The committee worked together for nine months between March and October 2007 to conduct the VPRAI validation - an overview of the study is provided here.

Datasets

Primary and secondary datasets were used for analysis. The primary dataset consisted of a random sample of up to 50013 cases from each of the 10 participating pretrial services agency (n=4,378). The sample was selected from the population of defendants who were arrested January 1 -December 30, 2005 who had both a pretrial investigation and VPRAI completed. A final sample containing pretrial outcomes of at least 2500 cases was desired for the study. Acknowledging that some defendants are not released pending trial and would need to be excluded from the study, an over sampling was conducted to ensure the minimum number of cases for the study. Each agency was provided the information relating to their respective sample so that they could identify the cases in the Pretrial and Community Corrections Case Management System (PTCC), determine the case dispositions and pretrial outcomes (success or failure by type), and enter the results into PTCC. Case dispositions and pretrial outcomes could not be identified for 106 cases which left a sample of 4,272. Of the remaining defendants, 65% were released pending trial while 35% were detained the entire time pending trial. For this reason, the final dataset used for analysis consisted of 2, 778 defendants who were arrested between January 1 and December 30, 2005 who had both a pretrial investigation and VPRAI completed, were released pending trial, and a case disposition and pretrial outcome was determined. For this dataset pretrial failure included failing to appear for court and/or new arrest pending trial.

The secondary dataset consisted of all defendants released to the supervision of a pretrial services agency between January 1 and December 30, 2005. The sample included 7,174 defendants and consisted of persons released with a condition of pretrial supervision to any of the 29 pretrial services agencies serving 80 Virginia localities. The case dispositions and pretrial outcomes were known for these defendants; therefore, the existing data was simply extracted from PTCC. For this dataset pretrial failure was determined based on the reason a case was closed and included failing to appear for court, new arrest pending trial and bail revocation due to technical violations of supervision.

¹³ Two of the ten agencies had less than 500 cases for 2005; therefore, all cases were included in the analysis.

Methodology and Results

The first step in the validation process was to examine the accuracy of the VPRAI as a whole. Both datasets were used individually to determine how well the instrument classified defendants likelihood of pretrial failure (see figures 2 and 3).

Figure 2. Original VPRAI Pretrial Outcome by Risk Level – 10 Agency Random Sample

Risk Level	Success	Failure
	36.1%	13.9%
Below Average	82.1%	17.9%
Average 1.3	72.6%	27.4%
Above Average	66.8%	33.2%
High Land	63:0%	37.0%
Total Success/Failure Rates	72.5%	27.5%

Data Source: Virginia Department of Criminal Justice Services, PTCC (Pretrial and Community Corrections Case Management System). Random sample of defendants arrested in 10 Virginia localities January 1 -December 30, 2005 who had both a pretrial investigation and VPRAI completed. n = 2,778

Note: For this dataset pretrial failure included failing to appear for court and/or new arrest pending trial.

Figure 3. Original VPRAI Pretrial Outcome by Risk Level –
All Defendants Released with Pretrial Supervision

Risk Level	Success	Failure
Low	92.8%	72%
Below Average	87.4%	12.6%
Average 2	82.0%	18.0%
Above Average	75.7%	24.3%
High: A	-67.7%	32.3%
Total Success/Failure Rates	82.0%	18.0%

Data Source: Virginia Department of Criminal Justice Services, PTCC (Pretrial and Community Corrections Case Management System). All defendants arrested January 1 – December 30, 2005 and released with a condition of pretrial supervision to any of the 29 pretrial services agencies serving 80 Virginia localities. n=7,174

Note: For this dataset pretrial failure included failing to appear for court, new arrest pending trial and bail revocations due to technical violations of supervision.

As can be seen in figures 2 and 3, as the pretrial risk level increased (as classified by the VPRAI during the pretrial investigation) the failure rates increased. The VPRAI, as originally developed, accurately classifies defendants according to their likelihood of pretrial failure. A closer examination of both datasets reveals that the VPRAI also accurately classifies defendants by the type of pretrial

failure. Although the VPRAI was found to be a valid predictor of pretrial outcome, additional analysis was conducted to determine if the accuracy of the instrument could be improved. Individual bivariate analysis of the risk factors revealed that Outstanding Warrants was not a statistically significant predictor of pretrial outcome while the remaining 8 risk factors remained good predictors. Multivariate analysis further revealed that a revised instrument consisting of 8 risk factors (excluding Outstanding Warrants) was a slightly better predictor of pretrial outcome when compared to the original 9 factor model.

Figure 4. Revised VPRAI Pretrial Outcome Type by Risk Level - 10 Agency Random Sample

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Risk Level	Success	FTA	New Arrest
Low	86.7%	1.6%	11.7%
Below Average	81.9%	4.1%	14.0%
Average	72.5%	5.8%	21.7%
Above Average	67.2%	6.6%	26.2%
High E	63.5%	7.0%	29.5%
Total Success/Failure Rates	72.5%	5.5%	21.5%

Data Source: Virginia Department of Criminal Justice Services, PTCC (Pretrial and Community Corrections Case Management System). Random sample of defendants arrested in 10 Virginia localities January 1 – December 30, 2005 who had both a pretrial investigation and VPRAI completed. n= 2, 778

Although the purpose of a pretrial risk assessment is to predict the risk of failure to appear and danger to the community pending trial, additional analysis was conducted to determine if the revised VPRAI (excluding Outstanding Warrants) also accurately predicted risk of technical violations. As can be seen in figure 5, the revised VPRAI also accurately classified defendants in five levels of risk based on the likelihood of pretrial failure including technical violations.

Figure 5. Revised VPRAI Pretrial Outcome by Risk Level – All Defendants Released with Pretrial Supervision

Risk Level	Success	FTA	New Arrest	Technical Violation
Below Average	87.5%	5.6%	1.6%	5.3%
Awaraga - Link 2				
Above Average	76.3%	7.0%	4.2%	12.5%
High		3.05		
Total Success/Failure Rates	82.0%	6.2%	2.9%	8.9%

Data Source: Virginia Department of Criminal Justice Services, PTCC (Pretrial and Community Corrections Case Management System). All defendants arrested January 1 - December 30, 2005 and released with a condition of pretrial supervision to any of the 29 pretrial services agencies serving 80 Virginia localities. n = 7,174

Revised Validated VPRAI

The revised and validated VPRAI consists of eight risk factors. Minor revisions to the descriptions of the risk factors were made during the validation study based on the advisory committee's experience with implementation and use of the VPRAI and to improve understanding of the risk factors. The eight risk factors are provided below (see next section VPRAI Completion Instructions for detailed definitions of each factor).

- 1. **Primary Charge Type** Defendants charged with a felony are more likely to fail pending trial than defendants charged with a misdemeanor.
- 2. **Pending Charge(s)** Defendants who have pending charge(s) at the time of their arrest are more likely to fail pending trial.
- 3. Criminal History Defendants with at least one prior misdemeanor or felony conviction are more likely to fail pending trial.
- 4. Two or More Failures to Appear— Defendants with two or more failures to appear are more likely to fail pending trial.
- 5. Two or More Violent Convictions Defendants with two or more violent convictions are more likely to fail pending trial.
- 6. Length at Current Residence Defendants who live at their current residence for less than one year are more likely to fail pending trial.
- 7. Employed/Primary Caregiver Defendants who have not been employed continuously at one or more jobs during the two years prior to their arrest or who are not a primary caregiver are more likely to fail pending trial.
- 8. **History of Drug Abuse** Defendants with a history of drug abuse are more likely to fail pending trial.

The weights and scoring, including 1 point for all factors with the exception of Two or More Failures to Appear which is assigned 2 points, remains unchanged. The points are totaled to create a score from 0 to 9 and are used to create five risk levels including low, below average, average, above average, and high as shown in figure 6. The risk levels represent the likelihood of pretrial failure including failing to appear in court and danger to the community pending trial.

Risk Level Risk Score

Low 0, 1

Below Average 2

Average 3

Above Average 4

High 5-9

Figure 6. Revised VPRAI Risk Levels

VPRAI COMPLETION INSTRUCTIONS

Eligibility

A VPRAI examines a defendant's status at the time of the arrest as it relates to the current charges, pending charges, criminal history, residence, employment, primary caregiver, and history of drug abuse. For this reason, the instrument is primarily intended to be completed after arrest and presented to the Court at first appearance. Completing the instrument soon after arrest increases the likelihood of capturing the most accurate information as it relates to the defendant's status at the time of his/her arrest and should be done so within 7 days.

A pretrial investigation must be conducted prior to completing the VPRAI (see Virginia Pretrial Investigation Guide). Defendants who do not meet all of the criteria listed below are not eligible for instrument completion as part of the pretrial investigation. Additionally, a VPRAI is required for all eligible defendants and should be completed by following the instructions provided herein.

- 1. The defendant must be an adult -18 years or older or a juvenile previously certified as an adult by the court.
- The defendant must not be incarcerated at the time of the arrest or when the warrants were served. Defendants who were incarcerated for unrelated charges at the time the new warrants were served are not eligible.
- 3. The defendant must have been arrested for one or more jailable offense(s) Class 1 and 2 misdemeanors (M1 and M2), unclassified misdemeanor (M9) that carry a penalty of jail time, or any felony. Class 3 misdemeanors, Class 4 misdemeanors, and any Class 9 misdemeanors, which carry a maximum penalty of a fine, are not eligible for instrument completion.
- 4. The defendant must have been arrested for a criminal offense (includes criminal traffic charges but NOT traffic infractions). Defendants charged solely with the following are not eligible:
 - a. civil offense
 - b. FTA or capias due to an underlying charge from a civil court
 - c. fugitive warrant/warrant of extradition

The VPRAI is automated and contained in the Pretrial and Community Corrections Case Management System (PTCC). The appendix contains an example of a completed instrument created from sample data. The VPRAI can be created after completing four tabs contained in the Screening sub-module of the Screening module of PTCC. The four tabs include the following: Screening, VPRAI (Step 1), VPRAI (Step 2), and VPRAI (Step 3).

Screening.

The following information required for the VPRAI is entered into the Screening tab: First Name, Last Name, Race, Social Security Number (SSN), Sex, Date of Birth (DOB), Primary Charge Classification (PCC), Arrest Date, Jail, Screened In, and Investigated Yes (see figure 7).

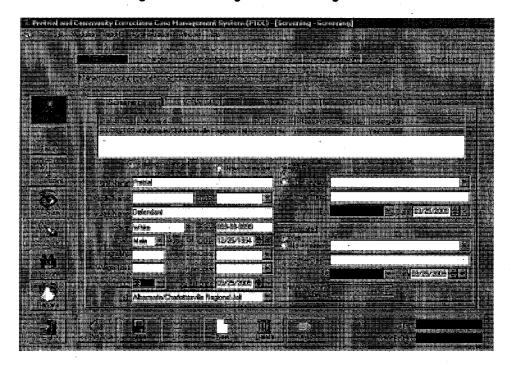


Figure 7. Screening Tab in Screening Module

VPRAI (STEP 1)

The following information required for the VPRAI is entered into the VPRAI (Step 1) tab: Instrument Completion Date, Arrest Information, Research Factors, and Risk Factors. The Risk Level is a calculated field which resides on this tab (see figure 8).

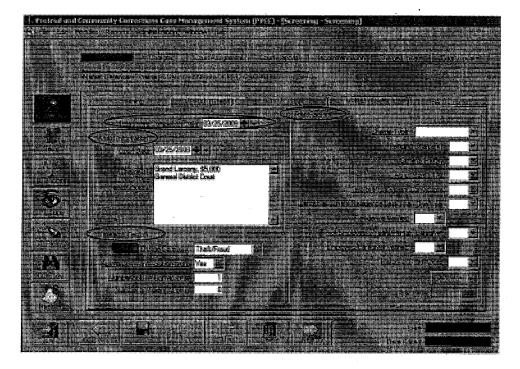


Figure 8. VPRAI (Step 1) Tab in Screening Module

Research Factors

Four research factors are collected for future VPRAI validation and research initiatives. Guidance for selecting accurate responses to the factors is provided below.

- Charge Category There are 8 options for charge category including Violent, Firearm, Drug, Theft/Fraud, Failure to Appear, DUI, Traffic/Non-DUI, and Other. To identify the charge category follow the steps below.
 - a. <u>Violent</u> Determine if any of the charges are a violent offense violent offenses include the following: Murder, Manslaughter, Mob-related felonies, Kidnapping, Abduction, Malicious Wounding, Robbery, Carjacking, Arson, Assault (simple assault or assault & battery/misdemeanor or felony), and Sex Offenses (Rape, Sexual Assault/Battery, Carnal Knowledge of a Child, Forcible Sodomy).
 - Charges of burglary and possession or brandishing a firearm are **not** counted as violent. A charge of <u>attempt</u> or being <u>an accessory before the fact</u> to commit any of the offenses is counted. A charge of <u>conspiring</u> or being <u>an accessory after the fact</u> to commit any of the offenses is **not** counted.
 - If any of the charges are violent select Violent for this factor and continue to the next research factor; otherwise, continue to step b.
 - b. <u>Firearm</u> Determine if any of the charges are a firearm offense firearm offenses include any charge relating to possession, use, or manufacturing a firearm. Examples

include shooting at a vehicle, discharging a weapon in a public place, brandishing, illegally carrying a concealed weapon, or removing or altering the serial number or other identification number on a firearm. If any of the charges are a firearm offense select Firearm for this factor and continue to the next research factor; otherwise, continue to step c.

- c. <u>Drug</u> Determine if any of the charges are a drug related offense drug related offenses include schedules i, ii, iii, iv, v and vi drugs, imitation controlled substances, counterfeit controlled substances, and drug paraphernalia. Note: Drug related offense does not include an alcohol related offense. If any of the charges are drug related select Drug for this factor and continue to the next research factor; otherwise, continue to step d.
- d. Theft/Fraud Determine if any of the charges are a theft/fraud offense theft/fraud offenses include the following: any charge related to larceny, burglary, fraud, concealment, embezzlement, forgery, uttering, and bad check. If any of the charges are theft/fraud related select Theft/Fraud for this factor and continue to the next research factor; otherwise, continue to step e.
- e. <u>Failure to Appear</u> If any of the charges are a failure to appear select Failure to Appear for this factor and continue to the next research factor; otherwise, continue to step f.
- f. <u>Driving Under the Influence (DUI)</u> If any of the charges are a Driving Under the Influence select DUI for this factor and continue to the next research factor; otherwise, continue to step g.
- g. <u>Traffic/Non-DUI</u> If any of the charges are a traffic offense other than a DUI select Traffic/Non-DUI for this factor and continue to the next research factor; otherwise, continue to step h.
- h. Other If none of the charges meet the criteria above select Other for this factor and continue to the next research factor.

2. Active Community Supervision

- Select Yes if the defendant was under any active community criminal justice supervision including state or local probation, parole, pretrial services, alcohol safety action program (ASAP), drug court, day reporting, or any other form of active criminal justice supervision at the time of the arrest. Active supervision does NOT include unsupervised probation, a term of good behavior, or release on bail without pretrial supervision.
- Select No if the defendant was not on active community criminal justice supervision at the time of the arrest.
- 3. Number of FTA Convictions Enter the number of convictions as an adult for Failure to Appear or Contempt of Court that was a result of failure to appear.
- 4. Number of Violent Arrests Enter the number of arrests (count each charge) for a violent offense as an adult; regardless of the case disposition (guilty, not guilty, nolle prosequi, dismissed). Violent offenses include the following: Murder, Manslaughter, Mob-related felonies, Kidnapping, Abduction, Malicious Wounding, Robbery, Carjacking, Arson, Assault

(simple assault or assault & battery/misdemeanor or felony), and Sex Offenses (Rape, Sexual Assault/Battery, Carnal Knowledge of a Child, Forcible Sodomy).

Arrests for burglary and possession or brandishing a firearm are **not** counted as violent arrests. An arrest for <u>attempt</u> or being <u>an accessory before the fact</u> to commit any of the offenses is counted. An arrest for <u>conspiring</u> or being <u>an accessory after the fact</u> to commit any of the offenses is **not** counted.

Risk Factors

The VPRAI calculates a defendant's level of risk based on the eight (8) risk factors listed below.

Responses to these risk factors are entered in the appropriate sections on this tab (see Figure 8: VPRAI (Step 1) Tab in Screening Module, p.16). Guidance for selecting accurate responses to the factors is provided below.

- 1. Charge Type Select Misdemeanor or Felony to indicate whether the most serious charge classification for the arrest event is a misdemeanor or a felony.
 - If there is only one charge select the classification for that charge (Misdemeanor or Felony).
 - For a capias or FTA warrant count the charge type of the most serious underlying charge.
 - Select Misdemeanor when there are multiple charges and all of the charges have a charge classification of misdemeanor.
 - Select Felony when there are multiple charges and one or more of the charges is a felony.
- 2. Pending Charge(s) Pending charge(s) require: 1) that the defendant was previously arrested for one or more charges for jailable offenses that have not been "disposed of"; 2) was arrested for a new crime that was allegedly committed while released on bail pending trial; and 3) that a future court date has been set or that a warrant has been issued for failure to appear. A charge with a disposition of "deferred" is NOT counted as a pending charge.
 - Select Yes if the defendant had one or more charges for jailable offenses pending in a criminal or traffic (not civil) court at the time of arrest.
 - Select No if the defendant had no pending charge(s) at the time of arrest.
 - Exception: If the current arrest is solely for a failure to appear, the underlying charge related to the failure to appear does not constitute a pending charge.
 - ♦ The following scenarios **DO NOT** constitute a pending charge:
 - A defendant is arrested, remains incarcerated pending trial, and is served with new warrants: or
 - A defendant is arrested, released pending trial, and is arrested for a charge with an alleged offense date that is prior to the first arrest.
- 3. Criminal History A conviction for a jailable offense is counted as a prior criminal history. Note: A charge with a disposition of "deferred" is NOT counted as a conviction.
 - Select Yes if the defendant has at least one adult misdemeanor or felony conviction in the past.

- Select No if the defendant has no misdemeanor or felony conviction in the past.
- 4. Two or More Failures to Appear An arrest for failure to appear, bail jumping, or contempt of court that was a result of failing to appear is counted. A failure to appear for a single court appearance is counted once regardless of the number of FTA charges related to the one court appearance. An arrest for failure to appear is not counted if there is confirmation that the defendant was in custody (jail or prison) when the failure to appear occurred.
 - Select Yes if the defendant has failed to appear in court two or more times as an adult.
 - Select No if the defendant has not failed to appear two or more times as an adult.
- 5. Two or More Violent Convictions Violent convictions are defined for the purposes of risk assessment to include the following: Murder, Manslaughter, Kidnapping, Abduction, Malicious Wounding, Robbery, Carjacking, Arson, Assault (simple assault or assault & battery/misdemeanor or felony), and Sex Offenses (Rape, Sexual Assault/Battery, Carnal Knowledge of a Child, Forcible Sodomy.

Convictions for burglary and possession or brandishing a firearm are **not** counted as violent convictions. A conviction for <u>attempt</u> or being <u>an accessory before the fact</u> to commit any of the offenses is counted. A conviction for <u>conspiring</u> or being <u>an accessory after the fact</u> to commit any of the offenses is <u>not</u> counted.

- Select Yes if the defendant has two or more prior violent convictions as an adult.
- Select No if the defendant does not have two or more prior violent convictions.
- (A) Length at Current Residence Less than One Year A residence is where the defendant currently lives and does not include non-residences such as a jail, prison, halfway house, hospital, or shelter.
 - Select Yes to indicate if the defendant has lived at his residence for less than one year, is homeless, or does not have a stable residence.
 - Select No if the defendant has lived at his current residence for one year or more.
 - (B) Residence Verified Select **Yes** or **No** to indicate whether the residence information was verified by a reference or other secondary source.
- 7. (A) Not Employed 2 Years/Primary Caregiver Employment includes part or full time as long as the defendant worked regularly and consistently for a minimum of 20 hours per week. A defendant is considered a primary caregiver if he or she is responsible for, and consistently cares for, at least one dependent child (under the age of 18) or disabled or elderly family member, living with the defendant at the time of the arrest.
 - Select Yes if the defendant was unemployed at the time of the arrest, had a significant gap in employment over the two years prior to the arrest, is retired, disabled or a student <u>and</u> was not a primary caregiver at the time of arrest.
 - Select No if the defendant has been employed relatively consistently at one or more
 jobs during the two years prior to the arrest.
 - Select No if the defendant was a primary caregiver at the time of the arrest.

- (B) Employed/Caregiver Verified Select **Yes or No** to indicate whether the employed/primary caregiver information was verified by a reference or other secondary source.
- 8. History of Drug Abuse For the purposes of risk assessment drug abuse includes any illegal or prescription drugs and does not include alcohol. Consideration should be given to the information provided by the defendant, criminal history, information contained in supervision records, and any information provided by references regarding drug use (excluding alcohol).

Examples: Indications of a history of drug abuse: 1) previously used illegal substance(s) repeatedly (this is to be distinguished from short-term experimental use); 2) defendant admits to previously abusing illegal or prescription drugs; 3) the criminal history contains drug related convictions; and 4) the defendant received drug treatment in the past.

Any one or a combination of the factors above can be used to determine whether or not the defendant has a history of drug abuse.

- Select Yes to indicate the defendant has a history of drug abuse.
- Select No if the defendant does not have a history of drug abuse.

Risk Level

After selecting responses to the eight risk factors the risk level is automatically calculated in PTCC by selecting the Calculate Risk button. The defendant's level of risk is identified as one of the following: Low, Below Average, Average, Above Average, or High (see figure 9).

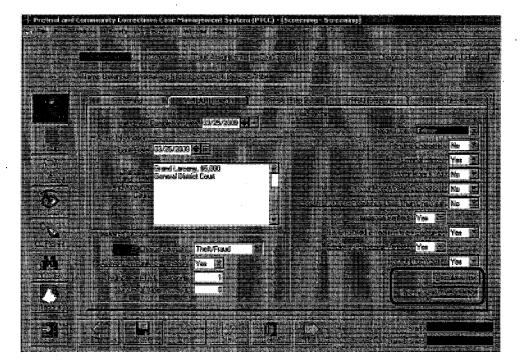


Figure 9. VPRAI (Step 1) Tab in Screening Module: Risk Level Calculated

VPRAI (STEP 2)

The VPRAI (Step 2) tab shows the results of the risk factors by displaying a statement related to each risk factor in the Risk Assessment section. The risk level is also displayed in the Risk Level section. The section regarding Meets Presumption of No Bail §19.2-120 contained in the From Magistrate's Bail Determination Checklist section has been disabled and is no longer used. Additional considerations related to risk are entered in the Additional Considerations section (see figure 10).

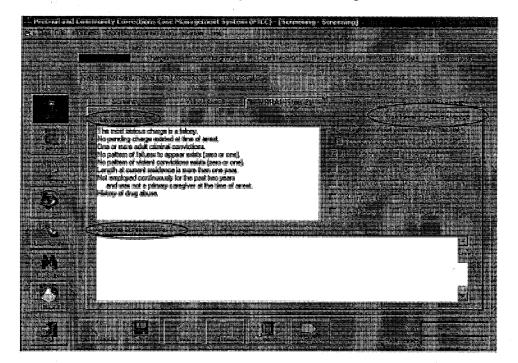


Figure 10. VPRAI (Step 2) Tab in Screening Module

Additional considerations include information deemed important for the judicial officer to consider when making the bail decision. Additional considerations should include areas of risk that have been identified during the pretrial investigation that are not accounted for in the eight (8) primary risk factors detailed previously as well as mitigating factors (factors that may mitigate the seriousness of any of the eight (8) primary risk factors that were identified for the defendant) and positive factors that are relevant to the bail decision.

VPRAI (STEP 3)

The following information for the VPRAI is entered into the VPRAI (Step 3) tab: Recommendation, Recommended Conditions of Release, and Additional Comments/Recommendations. The VPRAI report is also created from this tab (see figure 11).

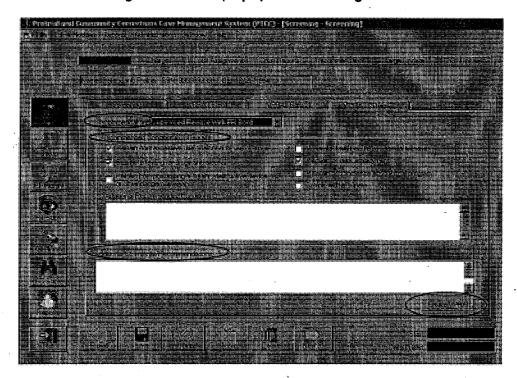


Figure 11. VPRAI (Step 3) Tab in Screening Module

Recommendation

The Recommendation section contains eight (8) options for a bail recommendation and includes the following:

- 1. Personal Recognizance;
- 2. Reduced Bond;
- 3. Same Bond;
- 4. Supervised Release with PR Bond;
- 5. Supervised Release with Secure Bond;
- 6. Increased Bond;
- 7. No Bond; and
- 8. No Recommendation.

One of the eight options must be selected.

Recommended Conditions of Release

Conditions of release can be recommended if the bail recommendation entered in the Recommendation section is either Supervised Release with PR Bond or Supervised Release with Secure Bond. There are seven (7) common conditions that can be recommended by selecting the box next to recommended condition (see Figure 11: VPRAI (Step 3) Tab in Screening Module, p. 22). The common conditions include:

- 1. Refrain from excessive use of alcohol or use of drugs;
- 2. Submit to testing for drugs and alcohol;
- 3. Refrain from possessing a firearm, destructive device, or other dangerous weapon;
- 4. No contact with victim or potential witness;
- 5. Maintain or seek employment;
- 6. Maintain or commence educational program; and
- 7. Comply with a curfew.

Other conditions of release permitted by the Code of Virginia can be entered in the Additional Recommended Conditions of Release section.

Additional Comments/Recommendations

Information related to the bail recommendation that is not included in the Recommendation and Recommended Conditions of Release sections can be entered here.

Create VPRAI

The VPRAI report is created by the PTCC software and uses information entered into the four tabs contained in the screening module of PTCC including the Screening, VPRAI (Step 1), VPRAI (Step 2), and VPRAI (Step 3) tabs. Select the Create VPRAI button to view and print the VPRAI report.

APPENDIX - EXAMPLE VPRAI REPORT USING SAMPLE DATA

Virginia Pretrial Risk Assessment Instrument

Instrument Completion Date: 05/02/2009

Court Date: 05/02/2009

First Name: VPRAL

Last Name: Test

Race: Other

SSN: 999-99-9999

Sex: Male

DOB: 05/02/1971

Charge(s): Grand Larceny \$5,000, General District Court

Recommendation

Personal Recognizance Reduced Bond

Same Bond S

Supervised Release

Increased Bond

No Bond

. dan ata Marian sanahan a.

- Conditions of Release

 Refrain from excessive use of alcohol or use of drugs
 - Submit to testing for drugs and alcohol
 - Maintain or seek employment
 - Complete substance screening and assessment by the CSB

Additional Comments Recommendations

The combination of the recommended conditions of release with pretrial supervision will address the risk concerns identified by our assessment. Financial conditions are not needed in this case to address the potential for failure to appear in court.

Risk Assessment

Factors Considered

- No pending charge existed at time of arrest
- No pattern of failures to appear exists (zero or one)
- No pattern of violent convictions exists (zero or one)
- Length at current residence is more than one year
- The most serious charge is a felony
- One or more adult criminal convictions
- Not employed continuously for the past two years and was not a primary caregiver at the time of arrest.
- History of drug abuse
- The pretrial risk assessment identifies the defendant's risk level as above average

Additional Considerations

Although the defendant has not been employed continuously for the past two years, he recently obtained employment at American Auto Repair. This information was verified through the defendant's employer, John Sullivan.

Confidential - Further disclosure prohibited by law pursuant to \$2.2-3706 and \$19.2-152.4.2 of the Code of Virginia.

TAB 6

OHIO RISK ASSESSMENT SYSTEM; PRETRIAL ASSESSMENT TOOL (ORAS-PAT) Date of Assessment: _ Name: Case#: Name of Assessor: _ Age at First Arrest 0=33 or older 1=Under 33 Number of Failure-to-Appear Warrants Past 24 Months 2. 0=None 1=One Warrant for FTA 2=Two or More FTA Warrants Three or more Prior Jail Incarcerations 0=No 1=Yes Employed at the Time of Arrest 0= Yes, Full-time 1= Yes, Part-time 2= Not Employed Residential Stability 5. 0=Lived at Current Residence Past Six Months 1=Not Lived at Same Residence Illegal Drug Use During Past Six Months 6. 0=No 1=Yes 7. Severe Drug Use Problem 0=No 1=Yes Total Score: % of Failure to Appear Scores Rating % of Failures % of New Arrest 0-2 Low 5% 5% 0% 3-5 Moderate 18% 12% 7% 29% 15% 17% 6+ High

Please State Reason if Professional Override:					
Reason for Override (note: overrides should not be based solely on offense):					
Other Areas of Concern. Check all that Apply:					
Low Intelligence*					
Physical Handicap	•				
Reading and Writing Limitations*					
Mental Health Issues*	,				
No Desire to Change/Participate in Programs*					
Transportation					
Child Care					
Language	·				
Ethnicity					
Cultural Barriers	•				
History of Abuse/Neglect					
Interpersonal Anxiety					
Other	_				

Pretrial Tool

- Assess at time of arrest/jail
- Aids in bail, release, formal supervision decisions
- Sources of information
- Face-to-face interview
- File review
- Collateral info
- 5-10 minutes
- Re-assessment
- No re-assessment

Pretrial Assessment Tool (ORAS-PAT)

Seven Items

Failure To Appear

Classifies based on

Risk of Reoffending



OHIO RISK ASSESSMENT SYSTEM: MISDEMEANOR SCREENING TOOL (ORAS-MST)

Name:	Date of Assessment:	
Name.	Date of Assessment.	
Case#:	Name of Assessor:	
1. Most Serious Arrest Under Age 18		
0 = None		
1 = Yes, Misdemeanor		
2 = Yes, Felony		
2. Number of Prior Adult Felony Convictions		
0 = None		
1 = One or Two		
2 = Three or More	•	
3. Currently Employed/School		
0 = Yes, Full-time, Disabled, or Retired	· · · · · · · · · · · · · · · · · · ·	
1 = Not Employed or Employed Part-time		
4. Drug Use Caused Problems		
0 = None		
1 = Past	,	
2 = Current		
5. Current Offense Heroin Related		
$0 = N_0$		
4 = Yes		
6. Criminal Attitudes		
0 = No/Limited Criminal Attitudes	<u> </u>	
1 = Some Criminal Attitudes		
2 = Significant Criminal Attitudes		

			T	OTAL SC	ORE:
Risk Categories f	or MALES		Risk Categories	for FEMA	LES
Rating	Rating	Re-arrest Rate	Rating	Score	Re-arrest Rate
Low	0 - 1	25%	Low	0 - 3	31%
Moderate / High	2 - 13	48%	Moderate / High	4 - 13	42%

OHIO RISK ASSESSMENT SYSTEM: MISDEMEANOR ASSESSMENT TOOL (ORAS-MAT)

Name:	Date of Assessment:	
Case#:	Name of Assessor:	
 Most Serious Arrest Under Age 18 0 = None 1 = Yes, Misdemeanor 2 = Yes, Felony 		
2. Number of Prior Adult Felony Convictions 0 = None 1 = One or Two 2 = Three or More		
3. Highest Education 0 = High School Graduate or Higher 1 = Less than High School or GED		
4. Ever Suspended or Expelled from School $0 = No$ $1 = Yes$		
5. Currently Employed/School 0 = Yes, Full-time, Disabled, or Retired 1 = Not Employed or Employed Part-time		
6. Better Use of Time 0 = No, Most Time Structured 1 = Yes, Lots of Free Time		
7. Drug Use Caused Problems 0 = None 1 = Past 2 = Current		
8. Drug Use Caused Problems with Employment 0 = No 1 = Yes		

9. Current Offense Heroin Related $0 = No$ $4 = Yes$	
10. Criminal Friends	
0 = None	
1 = Some	
2 = Majority	,
11. Contact with Past Criminal Peers	
0 = No contact with Criminal Peers	
1 = At Risk of Contacting Criminal Peers	
2 = Contact or Actively Seeks out Criminal Peers	
	
12. Criminal Attitudes	
0 = No/Limited Criminal Attitudes	
1 = Some Criminal Attitudes	•
2 = Significant Criminal Attitudes	•

			•		
Risk Categorie	s for MALES	7.3	Risk Categori	es for FEMALE	S
Rating	Rating	Re-arrest Rate	Rating	Score	Re-arrest Rate
Low	0 - 2	19%	Low	0 - 3	31%
Moderate	3 – 7	38%	Moderate	4 - 8	42%
Low	8 - 21	53%	High	9-21	55%

Professional Override: YES NO						
Reason for Overrid	Reason for Override (note: overrides should not be based solely on offense):					
Final Level: LOW	MODERATE HIGH					
Recommendations:						
LOW	Minimum supervision or non-reporting supervision					
MODERATE	Regular supervision; programming should be provided for moderate and high need areas					
HIGH	Enhanced supervision; programming should be provided for moderate and high need areas					
Other Areas of Conce	ern. Check all that Apply:					
Mental Health	cap /riting Limitations* Issues* hange/Participate in Programs* rs se/Neglect					
*If these items are chedetermine level or sev	ecked it is strongly recommended that further assessment be conducted to verity.					

In 2006, the Department of Rehabilitation and Corrections (DRC) contracted with the University of Cincinnati, Center for Criminal Justice Research, to create a set of research-driven tools that would provide risk assessments at multiple points in the criminal justice system validated on an Ohio offender population. Not all offenders are equal in their risk to reoffend, or their need for treatment and programming. Informed by a commitment to the principles of evidence-based practice, the intent was to separate adult offenders into risk groups determined by their likelihood of recidivating, and to identify dynamic risk factors (or criminogenic needs) to guide and prioritize appropriate and effective programmatic intervention.

The Ohio Risk Assessment System (ORAS) has since been created using a research design that involved conducting in-depth structured interviews of over 1,800 offenders at different stages in the justice system: pretrial, community supervision, prison intake, and community reentry. After the interviews were conducted, offenders were tracked for approximately one year to gather follow-up information on recidivism. Six assessment instruments have since been created: the Pretrial Assessment Tool (PAT), the Community Supervision Tool (CST), the Community Supervision Screening Tool (CSST), the Prison Intake Tool (PIT), the Prison Screening Intake Tool (PSIT), and a Reentry Tool (RT). (See the chart on the next page summarizing the variables associated with the four primary assessment instruments and the principal stages to which they apply.)

Counties in Ohio presently rely on a wide array of predictive tools creating a great deal of variation in the assessment of offenders' risks and needs. The launching of ORAS which will occur in April 2011 is designed to facilitate greater objectivity and consistency in the assessment of offender risk across jurisdictions. The tools developed under ORAS are non-proprietary, and will be made available to authorized users (those certified in the application of the tools) at no cost. Training of staff on the various ORAS instruments is already underway supported by the Corrections Training Academy (DRC).

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The individualized assessments under ORAS are not intended to dictate to decision-makers what to do, or to remove professional judgment. Rather, the results are designed to better inform the decisions that are made at different stages of criminal justice processing. The tools provide for professional overrides and for making sentencing or placement decisions that depart from the ORAS-associated recommendations.

An ORAS Oversight Committee has been established to guide the implementation of this important initiative, and to ensure ongoing cross system communication. Its membership consists of key stakeholders from the Department of Rehabilitation and Correction, the Attorney General's Office, the Office of the Ohio Public Defender, the Ohio Supreme Court, the Ohio Judicial Conference, the Department of Youth Services, and external community correctional agencies representing probation departments, halfway houses and community-based correctional facilities.

There are numerous benefits to be gained by the adoption of ORAS statewide. The assessment of risk and needs will permit the sorting of outcomes and the placement of offenders into different risk levels for the first time by gender. The use of the tools will provide recommended levels of community supervision, and suggest programmatic and placement options. Over time with proper implementation

state, regional, and site-specific county profiles will be available offering offender descriptions, and identifying gaps in services and local resources. Finally, ORAS will also assist in the more efficient allocation of staff support and supervision activities.

This is an exciting time for Ohio. No other state or adult criminal justice agency has developed such a system with interconnected assessment tools that can be deployed at various stages in the justice system. Once ORAS is in place, it will enhance the effectiveness of the criminal justice system, thereby contributing to greater public safety, reduced recidivism, and successful offender reintegration.

Ohio Risk Assessment System (ORAS) University of Cincinnati – Center for Criminal Justice Research

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ORAS Locations (Current and Upcoming)

- Alabama
- California:
- Monterey County
- Ventura County
- Calaveras Co

- Alachua County
- Orange County
- Osceola County
- Seminole County

Kansas City

Yolo County Connecticut Colorado Florida:

- Indiana
- Montana
- Pennsylvania
- Dauphin County
- York County
- Ohio
- Oklahoma
- Texas (they have conducted a validation study)
- Vermont
- New Hampshire

CREATION AND VALIDATION OF THE OHIO RISK ASSESSMENT SYSTEM FINAL REPORT

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July, 2009

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Warren County Pretrial Services, Cuyahoga County Pretrial Services, Summit County Pretrial Services, Butler County Pretrial Services, Hamilton County Pretrial Services, Franklin County Pretrial Services, Richland County Pretrial Services, Summit County Pretrial Services.

Lorain Correctional Institution, Correctional Reception Center, Belmont Correctional Institution, Pickaway Correctional Institution, Trumbull Correctional Institution, Ross Correctional Institution, Ohio Reformatory for Women, Southeastern Correctional Institution, North Central Correctional Institution, London Correctional Institution, Lebanon Correctional Institution, and Warren Correctional Institution.

River City Community Based Correctional Center, Community Correctional Center of Butler, Clermont, and Warren Counties, Franklin County Community Based Correctional Facility, Western Ohio Regional Treatment and Habilitation Center, NorthWest Community Corrections Center, Summit County Community Based Correctional Facility, Community Corrections Association, Inc., Eastern Ohio Correction Center, Turtle Creek Center Halfway House, and Oriana House operated facilities.

Columbiana County Probation Services, Franklin County Probation, Cuyahoga County Probation Services, Hamilton County Probation Services, Warren County Probation Services, Montgomery County Probation Services, Clermont County Probation Services, Butler County Probation Services, and Wood County Probation Services.

EXECUTIVE SUMMARY

This report outlines the development and validation of the Ohio Risk Assessment System. The Ohio Department of Rehabilitation and Corrections contracted with the University of Cincinnati, Center for Criminal Justice Research to create a risk assessment system that would provide assessments at multiple points in the criminal justice system and that was validated on an Ohio population. A major goal of the project was to develop assessments that abided by the principles of effective classification by constructing assessments that 1) separated Ohio offenders into risk groups based on their likelihood to recidivate, 2) identified dynamic risk factors that can be used to prioritize programmatic needs, and 3) identify potential barriers to treatment.

The Ohio Risk Assessment System was created using a prospective design that involved conducting in-depth structured interviews of over 1,800 offenders at the following stages in Ohio's justice system: pretrial, community supervision, prison intake, and community reentry. After interviews were conducted, offenders were tracked for approximately one year to gather follow-up information on recidivism. Five assessment instruments were created using items that were related to recidivism: The Pretrial Assessment Tool, The Community Supervision Tool, The Community Supervision Screening Tool, The Prison Intake Tool, and the Reentry Tool.

Validation involved examining the predictive power of the assessment instruments. The results reveal that all assessment instruments are able to significantly distinguish between risk levels. Moreover, r values are relatively large and, depending upon the assessment instrument, range from .22 to .44. Concurrent validity also was examined by comparing the predictive power of each assessment tool to the LSI-R and the Wisconsin Risk/Needs instruments. These results revealed that the instruments for the Ohio Risk Assessment System performed as well if not better than both of the other instruments.

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Ohio Risk Assessment System (ORAS) University of Cincinnati – Center for Criminal Justice Research

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ORAS Locations (Current and Upcoming)

- Alabama
- California:
- Monterey County
- Ventura County
- Yolo County
- Calaveras Co
- Colorado
- Connecticut
- Florida:
- Alachua County
- Orange County
- Osceola County
- Seminole County
- Kansas City

- Indiana
- Montana
- Pennsylvania
- Dauphin County
- York County
- Ohio
- Oklahoma
- Texas (they have conducted a validation study)
- Vermont
- New Hampshire

CREATION AND VALIDATION OF THE OHIO RISK ASSESSMENT SYSTEM FINAL REPORT

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Lorain Correctional Institution, Correctional Reception Center, Belmont Correctional Institution, Pickaway Correctional Institution, Trumbull Correctional Institution, Ross Correctional Institution, Ohio Reformatory for Women, Southeastern Correctional Institution, North Central Correctional Institution, London Correctional Institution, Lebanon Correctional Institution, and Warren Correctional Institution.

River City Community Based Correctional Center, Community Correctional Center of Butler, Clermont, and Warren Counties, Franklin County Community Based Correctional Facility, Western Ohio Regional Treatment and Habilitation Center, NorthWest Community Corrections Center, Summit County Community Based Correctional Facility, Community Corrections Association, Inc., Eastern Ohio Correction Center, Turtle Creek Center Halfway House, and Oriana House operated facilities.

Columbiana County Probation Services, Franklin County Probation, Cuyahoga County Probation Services, Hamilton County Probation Services, Warren County Probation Services, Montgomery County Probation Services, Clermont County Probation Services, Butler County Probation Services, and Wood County Probation Services.

EXECUTIVE SUMMARY

This report outlines the development and validation of the Ohio Risk Assessment System. The Ohio Department of Rehabilitation and Corrections contracted with the University of Cincinnati, Center for Criminal Justice Research to create a risk assessment system that would provide assessments at multiple points in the criminal justice system and that was validated on an Ohio population. A major goal of the project was to develop assessments that abided by the principles of effective classification by constructing assessments that 1) separated Ohio offenders into risk groups based on their likelihood to recidivate, 2) identified dynamic risk factors that can be used to prioritize programmatic needs, and 3) identify potential barriers to treatment.

The Ohio Risk Assessment System was created using a prospective design that involved conducting in-depth structured interviews of over 1,800 offenders at the following stages in Ohio's justice system: pretrial, community supervision, prison intake, and community reentry. After interviews were conducted, offenders were tracked for approximately one year to gather follow-up information on recidivism. Five assessment instruments were created using items that were related to recidivism: The Pretrial Assessment Tool, The Community Supervision Tool, The Community Supervision Screening Tool, The Prison Intake Tool, and the Reentry Tool.

Validation involved examining the predictive power of the assessment instruments. The results reveal that all assessment instruments are able to significantly distinguish between risk levels. Moreover, r values are relatively large and, depending upon the assessment instrument, range from .22 to .44. Concurrent validity also was examined by comparing the predictive power of each assessment tool to the LSI-R and the Wisconsin Risk/Needs instruments. These results revealed that the instruments for the Ohio Risk Assessment System performed as well if not better than both of the other instruments.

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INTRODUCTION

In 2006, the Ohio Department of Rehabilitation and Corrections (ODRC) contracted with the University of Cincinnati, Center for Criminal Justice Research to develop a risk and needs assessment system that improved consistency and facilitated communication across criminal justice agencies. The goal was to develop risk/needs assessment tools that were predictive of recidivism at multiple points in the criminal justice system. Specifically, asse ssment instruments were to be developed at the following stages: 1) pretrial, 2) community supervision, 4) institutional intake, and 4) community reentry.

A major goal of the assessment system was to conform to the principles of effective classification. In doing so, ODRC hoped to efficiently allocate supervision resources and structure decision-making in a manner that reduces the likelihood of recidivism. As a result, the Ohio Risk Assessment System (ORAS) was developed to classify the risk level of offenders in the system while also identifying both criminogenic needs and barriers to programming.

The Principles of Effective Classification

The principles of effective classification have been developed to guide criminal justice agencies in the use of risk assessment systems. In short, the principles of effective classification suggest that programs should use actuarial assessment tools to identify dynamic risk factors, especially in high risk offenders, while also identifying potential barriers to treatment. There are four major principles of effective classification are: the risk principle, the needs principle, the responsivity principle, the professional discretion principle (Andrews, Bonta, & Hoge, 1990).

The risk principle suggests that correctional interventions and programs are most effective when their intensity is matched to the risk level of the clientele (Andrews, Bonta, & Hoge, 1990; Van Voorhis, 2007). That is, the most intensive programs should be allocated to

moderate and high risk cases, while low risk cases be allocated little if any programming. Practically, the risk principle suggests that the majority of supervision and treatment resources be reserved for the highest risk cases. In fact, some research indicates that when low risk cases are targeted with intensive programs they actually perform worse than those who were left alone. This is because programming can expose offenders to higher risk cases and disrupt prosocial networks (see Lowenkamp & Latessa, 2004; Lowenkamp & Latessa, 2005b).

Several recent studies of correctional programming in Ohio suggest that the effectiveness of both residential and community based programs are mitigated by the risk of level of the clientele that they serve. For example, in 2002, Lowenkamp and Latessa evaluated the effects of Halfway Houses and Community Based Correctional Facilities and found consistently higher effect sizes for offenders who were moderate to high risk. Similar results were found for Community Corrections Act funded programs that suggested that programs that targeted higher risk offenders produced significantly lower rates of recidivism than programs that did not (Lowenkamp & Latessa, 2005a). These Ohio studies reiterate the notion that it is important to utilize risk assessment instruments in order to efficiently allocate resources in a manner that reduces recidivism.

A consistent finding in correctional programming is that the most effective programs target dynamic risk factors (Andrews et al., 1990, Lowenkamp, Latessa, & Smith, 2005; Lowenkamp & Latessa, 2004). Dynamic risk factors (also called criminogenic needs) are factors that, when changed, have been shown to result in a reduction in recidivism. Dynamic risk factors can include substance abuse, personality characteristics, antisocial associates, and antisocial attitudes (for a review, see Gendreau, Little, & Goggin, 1996). The needs principle

suggests that effective classification systems should identify dynamic risk factors directly related to recidivism so that they can be used to target programmatic needs.

The responsivity principle focuses on identifying barriers to treatment (Van Voorhis, 2007). Although dynamic risk factors are directly related to recidivism, there are other issues that are likely to keep individuals from engaging in treatment. Some examples of responsivity factors include intelligence, reading ability, language barriers, and cultural barriers. If left unaddressed, it is likely that these influences can interfere with the completion of treatment and, as a result, indirectly prevent a reduction in recidivism from occurring.

Although risk assessment instruments remove a degree of professional discretion from criminal justice actors, it is important to emphasize that the judgment of practitioners should not be overlooked (Andrews, Bonta, & Hoge, 1990). The principle of professional discretion recognizes that case managers and counselors are responsible for processing the risk, need, and responsivity information and making decisions based on the information provided (Andrews, Bonta, & Hoge, 1990). Further, actuarial tools are designed to treat offenders in the aggregate and cannot be structured to anticipate every possible case or scenario. As a result, it is important to allow criminal justice personnel the ability to override the assessment instruments in specific circumstances. Nevertheless, it is also important that overrides be used on a limited percentage of cases and that measure be taken to oversee the override process.

The Advantages of a Risk Assessment System

For over a decade, many criminal justice agencies have been implementing standardized risk classification instruments in order to efficiently and effectively manage their target populations. Because assessment instruments are expensive to construct and validate, resource constraints often limit the development of risk assessment instruments for specific jurisdictions

and populations (Jones, 1996). As a result, many criminal justice agencies often use empirically derived tools that have been developed on samples from a different population. Although this is less cost restrictive, it assumes that the instrument is a valid predictor of recidivism for each agency's specific population (Wright, Clear, & Dickerson, 1984; Jones, 1996; Gottfredson & Moriarty, 2006). Also, it is likely that there are different populations of offenders within jurisdictions. For example, the population of defendants on pretrial supervision is likely different that the population of individuals who are released from prison. Given that it is unlikely for a single instrument to have universal applicability across various offending populations, there is a clear necessity to validate risk assessment instruments each specific target population (Wright, Clear, & Dickerson, 1984). The Ohio Risk Assessment System was thus designed to predict recidivism at different points in the Ohio criminal justice system. In all, five instruments were constructed: The Pretrial Assessment Tool (PAT), the Community Supervision Tool (CST), the Community Supervision Screening Tool (CSST), the Prison Intake Tool (PIT), and the Reentry Tool (RT).

The use of a standardized assessment tool in Ohio allows consistency in the assessment of risk across jurisdictions. Prior to the creation of the ORAS, counties in Ohio were using different methods of assessment, creating a great deal of variation in the practices for assessing the risk and needs of offenders. Therefore, one of the purposes of ORAS was to promote consistent and objective assessment of the risk of recidivism for offenders in Ohio.

Another advantage of using a risk assessment system that follows offenders through the criminal justice systems is that it improves communication and avoids duplication of information. In fact, many of the items in the individual assessments carry over into assessments at later dates. The total number of risk items that are collected from all assessment instruments

is 63. Of these, 24 items are used on at least two, if not more assessment instruments. Further, since ORAS will be automated, items that are assessed at earlier stages have the potential to auto-populate into assessments at future dates.

METHODS

A prospective design was utilized in the creation and validation of ORAS. To accomplish this, offenders across the Ohio criminal justice system were given extensive interviews for potential risk factors and were subsequently followed for one year to gather official measures of recidivism. The creation and validation of ORAS had three phases: planning, data collection, and validation. The planning phase involved planning meetings with research and ODRC staff regarding the logistic obstacles to gaining access to cases and data collection sites. It also involved the creation of the structured tools used in data collection and training of data collectors in the administration of the semi-structured interview. The planning phase occurred throughout the beginning of 2006.

The data collection phase involved site visits to all pilot counties and locations and the extensive interviews of offenders. In all, data for 1,834 cases was gathered from 29 locations. This process occurred from September 2006 to October 2007. Outcome measures were gathered between May 2008 and April 2009, providing an average of a one year follow-up for recidivism.

The validation phase began in winter 2008. The first part of this phase involved data cleaning and analyses to determine which items were predictive of recidivism. After this, the assessment instruments were constructed using factors that were related to recidivism. Once constructed, the instruments were validated by examining the ability of each instrument to predict recidivism.

After construction and validation, interview manuals and scoring guides were constructed for each tool. Both instruments provide detailed instructions regarding the use of each risk assessment tool. Once the interview guides and manuals were completed, the instruments were piloted using a group of personnel at locations in accordance with each risk assessment (i.e., local court officials for the CST, cases managers at ODRC correctional facilities for the PIT, etc.). Piloting the assessment tools involved familiarizing the personnel on the use of the scoring guides and manuals and allowing them to assess offenders for several weeks. Focus groups for each assessment instrument were then conducted with UC research staff and the pilot assessors. The focus groups were asked to comment on the ease of use of the instruments, wording of questions, the time it took to complete assessments, and the reliability of the self-report questionnaire. After the focus groups were conducted, changes were made to specific questions in the manuals, items on the scoring guides, and wording on the self-report questionnaires.

Data Collection

In order to construct a risk assessment instrument, data collection tools were designed that gathered information on potential predictors of recidivism. To create these tools, research staff at the University of Cincinnati reviewed previous scholarly work on the correlates of recidivism. Based on a review of the research, variables that were previously found to be related to recidivism were incorporated into the data collection tools.

The data collection tools were designed to gather information using self-report questionnaires, semi-structured interviews, and file reviews. The purpose of the data collection tools was to provide a large number of potential risk factors that could be used to construct each assessment instrument. The interview guide consisted of a 26 page semi-structured interview. The instrument was comprised of 113 questions on a variety of criminogenic risk topics,

including: criminal history, substance use, criminal peers, criminal thinking, employment and education, mental health, emotional control, personality, and residential stability. The self-report instrument was a two-page document that used 96 questions to gather information on: criminal thinking, perspective taking, aggression, coping, empathy, emotionality, problem solving, involvement in pro-social activities, financial stress, and employment. The overall interview and self-report process took approximately 45-90 minutes to complete per offender.

Due to differences in access, interview availability, due process issues, and ethical considerations, pretrial defendants were assessed using different interview protocols and data collection tools. The initial pretrial structured interview tool was a two-page form that gathered information on 35 items. The self-report questionnaire was a four-page document that covered multiple domains, including: criminal thinking, drug use, medical and mental health, procriminal peers and family, residential stability, and employment. Completion of both the self-report and the structured interview took approximately 13-20 minutes to complete.

Data collection teams were comprised of trained research assistants from the University of Cincinnati. Depending on the size of the pilot site and the availability of spare rooms, the research staff size varied from three to 13 staff members. Each staff member was trained on the data collection instrument, ethics involved research with human subjects under correctional control, the interview procedure, and interview skills. In addition to training, each interviewer was supervised for the first four interviews, and interviews were randomly observed by team leaders throughout the project.

The pilot sites for the project were selected with the considerations of geographic representation across the state, recommendations from DRC staff, and whether the site was available and willing to participate during the data collection process. To facilitate participation

from the numerous pilot sites, letters were sent that informed the selected sites of the project goals. Potential sites were also asked to both facilitate access to the cases and provide a physical location to conduct the interviews. Although there were some logistical and scheduling issues that arose at several sites, no site declined to participate in the project.

Table 1 presents the counties and institutions where data were collected. Seven Ohio counties provided data for the Pretrial Assessment Tool. Fourteen counties participated in data collection for the Community Supervision Tool, and eight correctional facilities participated in data collection for the Prison Intake Tool and the Reentry Tool. Overall, data collection occurred between September 2006 and April 2009.

Table 1. Pilot Counties/Institutions that Participated in the Development of ORAS

Pretrial	Community Supervision	Prison Intake and Release
Bright Park III.	roczanich k ne	Litaniih Cameanarallinkiiniinaa
Cuyahoga	Franklin	Correctional Reception Center
Summile Strain Light College	Ventranews to the	Second Congressions business of the con-
Franklin	Clermont	Pickaway Correctional Institution
Hamelon a service and a service	Arthred Care De Marco (14)	Alternaul Correctional tresument - 442
Richland	Wood	Ross Correctional Institution
Wattron III Talket St. 1991	Columbiana (Columbia)	TONG Samuelory for Venney
W	Hamilton	Southeastern Correctional Institution
	Water and the Second	
	Summit	
	Henciock (1) Fig. 19 19 19 19	
	Mahoning	
	Colombination in a fire of a fire of	
	Wood	

Participants

Four independent samples of offenders were gathered at different stages in the criminal justice system: at pretrial, on community supervision, at prison intake, and just prior to community reentry. Table 2 presents the number of cases in each sample. There were a total of 1,837 cases in all four samples, 452 in the pretrial sample, 681 in the community supervision sample, 427 in the prison intake sample, and 279 in the community reentry sample.

Pretrial interviews were conducted during two time periods: September 2006 – June 2007 and October 2008 – March 2009. Assessments for the pretrial sample required two data collection periods because the initial period did not provide enough Ohio cases to construct and validate an assessment instrument. As a result, an eight item draft assessment tool was constructed by combining cases from another state. Once the shortened assessment instrument was constructed, staff from the University of Cincinnati trained personnel from the pilot counties, and data collection resumed with the goal of increasing the pretrial sample size and validating the draft assessment instrument on Ohio offenders. County personnel who conducted the interviews were trained by researchers from the University of Cincinnati to use a draft interview guide as well as administer a self-report survey. In order to be included in either of the data collection samples, individuals had to be an adult charged with a criminal offense that was recently referred to pretrial services during the period of data collection.

Table 2: Number of Cases in Each Sample

Sample	N	
enginal de la companya de la company	4526	
Community Supervision	681	•
Prison Intake A Reduction 18 18 18 18 18 18 18 18 18 18 18 18 18	427	
Community Reentry	279	
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Community supervision interviews were conducted between September 2006 and February 2007. To be included into the community supervision sample, individuals had to be an adult charged with a criminal offense that was recently referred to probation services during the period of data collection. Possible participants were identified at each site, and these individuals were approached by site staff and asked if they would be willing to meet with the research staff.

Once the individual met with the research staff and the project was explained, individuals were asked to participate in the research process and to sign informed consent documents.

Interviews were conducted for the prison intake sample between June and October 2007. Individuals were selected for the prison intake sample if they: a) were admitted to an intake correctional facility within the last six months, b) were unrestricted by security concerns (e.g., solitary), c) agreed to be interviewed, and d) were within six months of release. The limited sentence length was necessary in order to provide an adequate follow-up time for recidivism in the community. Due to the restrictive nature of a secure correctional facility, individuals were issued movement passes prior to the arrival of the research staff. However, since the research was voluntary, the pass may not have been granted if it interrupted school or job duties, if the inmate declined the pass, or for security reasons. Once the research staff and inmates met, the project was explained, participation was requested, and informed consent obtained.

Interviews were conducted for the community reentry sample between June and October 2007. The community reentry sample consisted of individuals who: a) were within six months of their release/discharge date, b) were unrestricted by security concerns, and c) agreed to participate. Similar to the intake sample, these interviews were conducted within the confines of a secured correctional facility, so individuals were issued movement passes prior to the arrival of the research staff. Once the offenders arrived to the room designated for interviews, the project was explained, participation was requested, and informed consent was obtained.

Recidivism

The primary measure of recidivism for this study was arrest for a new crime. Although data were gathered regarding a variety of other potential outcome measures (e.g., conviction, probation violation, institutional rule infraction), arrest was used for two major reasons. First,

measures that gather information later in the criminal justice process, such as convictions, require a longer follow-up period than twelve months utilized in this study. Second, using arrests in the community as an outcome allows the assessment tools to identify criminogenic needs that are likely to result in danger to the community. Although factors that are predictive of rule violations (e.g., probation violations or institutional violations) are of concern to criminal justice personnel, of most concern is targeting factors that are related to criminal behavior.

Unlike the other assessment tools, the outcome used in the construction of the Pretrial Assessment Tool was either a new arrest or failure-to-appear. Failure-to-appear was included as an outcome because one of the major goals of the pretrial tool was to assist court actors in the decision to release or hold the defendant prior trial. This information was gathered by the counties from public records searches and searches of the cases file. For the community supervision sample, county agencies gathered the arrest data on offenders under their supervision through public records searches and file reviews. This information was verified through the Ohio Law Enforcement Gateway (OHLEG). OHLEG is advantageous because the information it provides is not specific to the county of supervision. Because not all inmates who were released from correctional facilities were placed on community supervision, OHLEG was the primary source of information for regarding new arrests for these samples.

Collection of the follow-up data for all samples was completed approximately one year following the conclusion of the structured interviews. Collection of follow-up information for the pretrial cases was completed in April 2008 and May 2009. For the community supervision sample, follow-up was completed in April 2008. The follow-up for the prison intake and reentry samples was completed in December 2008.

Assessment Construction

For each assessment, items gathered from the structured interviews and self-report surveys that were associated with recidivism were used to create each tool. Cases were excluded if they had missing information on four of more items. After the items that were associated with recidivism were identified, these items were scored to create scales that indicated increases in the likelihood of recidivism. A modified Burgess method was used to assign point values to each item. The Burgess method assigns a point (a score of 1) to the presence of the risk factor, and assigns a score of zero when it is false or not present. Some items have multiple increasing values and as a result were scored with increasing values (i.e., 0, 1, 2). The items were then combined to create risk scales for each assessment tool. Once the risk scales were created, cutoffs were created that divided cases into different risk categories.

Priorities in Case Management

To assist Ohio criminal justice agencies with case management, another goal of the development of ORAS was to provide agencies with tools that identify and prioritize specific treatment domains. To do so, each assessment instrument is broken down by domain (e.g., criminal associates, criminal attitudes, substance abuse, etc.) and specific categories were identified that divide offenders into groups based on their likelihood to reoffend. Stated differently, the assessment process not only provides an overall risk level, but also provides risk levels by case management domains. Presenting risk levels by domain provides practitioners specific information regarding the likelihood of recidivism based on individual criminogenic needs in order to encourage a more efficient allocation of treatment resources.

¹ The number of cases excluded for each tool because they have more than four items missing were: pretrial sample = 0, community supervision sample = 3, prison intake sample = 10, reentry sample = 2.

Responsivity Assessments

Keeping with principles of effective classification, a goal in the development of the ORAS was to gather information regarding potential barriers to treatment. As a result, additional case planning items are incorporated into the final assessment. Table 3 provides a list of areas that are gathered for responsivity. As indicated in the table, responsivity items range from factors such as intelligence and literacy to child care and transportation. These items are not directly related to recidivism, but instead have the potential to restrict the efficacy of treatment. Responsivity items are not used in the final calculation of risk, but instead are used as case planning factors that should be addressed to improve likelihood that programming will reduce recidivism.

Table 3: Areas Assessed for Responsivity

Treatment Barriers	
iligas initallistatica de la	Tariye realina relice po
Reading and writing limitations	Mental health issues
History of abuse/neg leads and areas and	a Tuestiment mette atten
Transportation	Child care
Pauliculae C. S. S. S. C.	Educative and cultural banners 1/4 5 1 2 4 2 4 1

VALIDATION RESULTS

This section describes the samples and validation results by assessment instrument: the Pretrial Tool, the Community Supervision Tool (and Community Supervision Screening Tool), the Prison Intake Tool, and the Reentry Tool. Also presented for each tool is information regarding priorities in case management by presenting risk levels by domain.

The Pretrial Assessment Tool (PAT)

The PAT is designed to inform court actors of the risk of a defendant to either fail-toappear at a future court date or be arrested for a new crime. The pretrial sample consisted of individuals who received pretrial services from participating counties in Ohio. This sample provided data for 452 defendants who were on pretrial supervision during the data collection periods. Table 4 presents descriptive statistics for the PAT. The sample has an average follow-up of 12 months, and 16 percent experienced either an arrest or failure to appear.

The original pretrial data collection instruments provided over 100 potential predictors of recidivism. Of these, seven items from four domains were found to be related to recidivism: three items for criminal history, one item measuring employment, one item measuring residential stability, and two items measuring substance abuse. Table 5 presents the domains included in the PAT.²

Table 4: Descriptive Statistics for the Pretrial Assessment Sample (n =450)

Variable	N	Percent
SX THE BUILDING		
Male	345	79.3
TFonale : La	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	(1985) [1] (1) 23.7 (1) (1) (2)
Race		
1 White San Sall Building	100000000000000000000000000000000000000	(i.d.) (i.d.) (i.d.) (i.d.) (i.d.)
African American	210	46.5
LOther Total Market Control		湖。
Arrest or FTA	in L. The History of the Control of	
-X8		88.8 11043 12
No	73	16.2
	The Avenue Avenue Research	Bange Range
2124 3 C 2 2 4 5 C 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Control of the State of the Sta
Monthstiffisk		
	(5.6 SD)	
	(10.1)	18 – 64

² See the pretrial score sheet in Appendix A for a list of all items included in the Pretrial Assessment Tool.

Table 5: Domains of the Pretrial Assessment Tool

Domain	Number of Items	
Continue History - 1		
Employment	1	
Residentia, Smbillia & W.		
Substance Abuse	2	
ider in a company	思想的 "在我们是我们是我们们的"我"为他是强烈的"会性关系"。	

The PAT has a potential range from zero to 9. Appendix B presents a graph of the distribution of the pretrial sample on the pretrial assessment score. The graph reveals that there is a slight skew in the distribution with more cases with scores on lower values of the tool.

Table 6 presents the percentage of cases that recidivated for each risk score. The table reveals that as scores on the PAT increase, the percentage of individuals who were arrested increases. Further, the significant r value of .23 indicates that the pretrial assessment score is positively correlated with recidivism.

Table 6: Recidivism by Pretrial Risk Score (n = 450)*

Risk Score	Total Cases	Percent with Violation
	(1) 1 Part 19 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13) 1 (13	
1	49	0
25期期間開業的		regaent de la l'accept de celle
3	83	18
5	59	19
		- Table 1
7	27	33
1972754 8 1974 1974 1974 1974 1974 1974 1974 1974		
9	2	100

^{*} r = .23, p < .00

Table 7 presents the distribution of the pretrial sample on risk levels of the PAT. Scores of zero to two were categorized as low risk, three to five moderate risk, and six to nine as high

risk. Of the total sample, 29 percent of cases were categorized as low risk, 54 were categorized as moderate risk, and 17 percent as high risk.

Table 7: Distribution of Cases for each Risk Level for the Pretrial Assessment Tool

Level	N	Percent	
(Hoxx (C-20)), 2 3 1 2 1 1 2 1	10 (10 14 15 18 14 13 00 F 7 15 15 17 15 17 15 15 15 17 15 15 15 15 15 15 15 15 15 15 15 15 15		
Moderate (3-5)	248	54	
Trender) (Salika January			
Total	450	100	

Figure 1 presents information regarding the predictive validity of the PAT. The chart illustrates that each risk level is associated progressively higher rates of recidivism. Specifically, five percent of low risk cases were arrested, 18 percent of moderate risk cases were arrested, and 30 percent of high risk cases were arrested. The r value of .22 provides further indication that the assigned levels of risk are able to significantly distinguish between groups that have progressively higher rates of recidivism.

Figure 1: Predictive Validity of the Pretrial Assessment Tool (n = 450)*

29.5

VLL 10

29.5

17.8

*r = .22; p<.00

Low Risk

■ Moderate Risk ■ High Risk

Table 8 presents statistics for each of the case management domains of the PAT. Criminal history and residential mobility provide groups that are associated with increasing higher rates of recidivism. The domains of substance abuse and employment provide groups that have increasing recidivism rates, although the differences between the rates are relatively low. For example, the domain of employment produces low, moderate, and high risk groups that with the following respective recidivism rates: 12 percent, 16 percent, and 20 percent. As a result, the r values for these domains are below .10. On the other hand, within the domain of residential mobility, 25 percent of individuals who were at risk recidivated compared to only 11 percent of those that were not at risk (r = .19). The domain of criminal history also produces increasing rates of recidivism for low (11%), moderate, (24%) and high (29%) risk cases (r = .19).

Table 8. Priorities in Case Management for the Pretrial Assessment Tool

Criminal 1		Emplo		Residential	and the same and t	Substance	Abuse
# of Items	3	# of Items	1	# of Items	1	# of Items	2
Rango H	154	, Hermer		Kange	<u>И</u> _[0]-[Ц] ₂].	, jęsuge jaję.	$10^{p_{m}} \Omega_{m}$
Risk Low (0-1)	Yaolation	Risk Low (0)	Violation 12%	Risk Low (0)	Violation 11%	Risk H	Violation 14%
(Mol. (2)	24%	Vilanda.	1696		1112597		182%
High (3+)	29% 9	High (2)	20% (19	r = J	9	r=.()5

The Community Supervision Tool (CST)

Initial data for the community supervision sample was gathered through site visits to local county probation offices and community based corrections facilities. The CST is designed to assist in both designation of supervision level, as well as to guide case management for offenders in the community. The community supervision sample consisted of 678 individuals

who were on community supervision in Ohio. Table 9 presents descriptive statistics for the community supervision sample. The table indicates that 38 percent were rearrested during an average of 17 months at risk.

Table 9: Descriptive Statistics for the Community Supervision Sample (n = 678)

Variable	N .	Percent
Sex (12.20) And the least of the		
Male	513	75.7
	. M. J. a. a. a. a. 1165 J. J. H. M. S. W.	
Race		
White the second	(centification)	- 16th (1) - 7000 Green (1) - 1
African American	186	27.0
Any New Arrest		SIREPPORTERIOR AND
Yes all the first of	F	第82時間
No	419	61.8
		Range E. S.
Months at Risk	16.9	12 - 20
	######################################	
Age	32.2	18 - 65

The self-report survey and structured interview guide provided a total of 200 potential predictors of recidivism. Table 10 presents the domains assessed using the CST and the number of items from each domain that were included in the CST.³ In all, the CST consisted of a total of 35 items within 7 domains, and had potential scores that ranged from zero to 49.

Appendix B presents a visual display of the distribution of cases on scores for the CST. The figure reveals that the scores range from one to 43, with the majority falling near the center of the distribution, indicating a normal distribution. Table 11 presents failure rates by CST risk score for the community supervision sample. The table indicates that as scores on the CST

³ See the CST scoring form in Appendix A for list of all variables included in the ORAS-CST.

increase, the percentage of individuals that were rearrested increases as well. Further, the r value of .37 in Table 11 indicates a relatively strong relationship between risk score and recidivism.

Table 10: Domains for the Community Supervision Tool

2
4 .
25

Table 11: Percentage of Failure by Risk Score for the Community Supervision Tool (n=678)*

Risk Score	Total Cases	Percent Arrested	Risk Score	Total Cases	Percent Arrested
0.7875	10 mg/s				
1	1	0	27	29	48
2 1	PER PROPERTY.	14064	(22)	70 H (24)	
3	0	<u>-</u>	29	26	50
4-74-416	16444266	error constitution	Haralesii aan		F. 128 (1982)
5	3	0	31	19	58
G G	Latie Statelie				
7	6	0 .	33	8	38
84495	7.1	444	300		
9	9	11	35	14	64
1000			556		
11	15	13	37	4	75
11275		, in UG	38		65,444,00
13	21	10	39	3	67
	24,000		40		
15	23	44	41	2	100
14 Sept. 16 18 18			42.3		
17	34	. 30	43	2	100 ·
1, 1871,00				Quite de la companya	
· 19	36	25	45	0	_
	80 a ja 30 a ja			0.00	
21	33	33	47	0	_
22			48		
23	23	30	49	0	_
11.24	Tan Dorland		48	merika 1982 (E.A.	
25	36	44	49	0	***

^{*} r value = .37, p<.000

In risk/needs assessment, concurrent validity involves comparing the validity of an assessment tool to other known and established instruments. To assess concurrent validity of the ORAS, individuals in each sample were assessed on the Level of Service Inventory - Revised (LSI-R) and the Wisconsin Risk/Needs instrument. For consistency, scores were divided into low, moderate, and high risk groups based on each instruments' specified requirements.

Figure 2 reveals that the CST has relatively strong concurrent validity, which is evidenced from the larger r value and larger differences in recidivism between groups. All three instruments are significantly related to recidivism (CST r = .362, p<.05; LSI-R r = .156, p<.05; Wisconsin Risk/Needs r = .212, p<.05), but the LSI-R and Wisconsin Risk/Needs failed to provide large differences in recidivism between moderate and high risk groups. On the other hand, the CST provides large differences in recidivism between groups, 29 percentage points between low (20%) and moderate (49%) risk groups and 17 percentage points between moderate (49%) and high (66%) risk groups. These results suggest that the CST has strong concurrent validity, performing better than the LSI-R and the Wisconsin Risk/Needs Assessment.

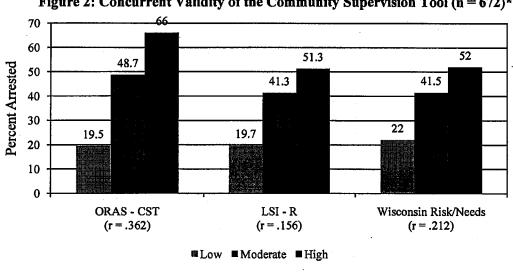


Figure 2: Concurrent Validity of the Community Supervision Tool (n = 672)*

*All r values p <.05

To provide optimal risk levels and cutoff scores,p reliminary analyses revealed that males and females should be given different cutoff scores to categorize risk groups. This is primarily because females tended to have lower scores on the assessment instruments. Table 12 provides the final risk levels, cutoffs, and number of cases falling at each level. For males, cutoffs for risk levels are as follows: low risk = zero- 14; moderate risk, 15 - 23; high risk = 24 33; and very high risk, 34 and higher. Table 12 also provides the distribution of risk levels for females. For females the cutoffs are as follows: low risk = zero - 14; moderate risk = 15 - 21; high risk 22 - 28; and very high risk = 29 and higher.

Table 12: Distribution of Cases by Risk Level for the CST

Level	N	Percent
AV 部[es (m#\$(5)) : 1		
Low (0-14)	77	15
1. Moderate (15-25). Apple 5	在1925年1月20日2月1日	
High (24-33)	190	37
# (Vervielieli (844-49) ; it i	4. Transport (1939) (1914) (1944) (1944)	
Females (n = 165)		
TOX (0313);		A 12 SHOP 125
Moderate (15-21)	65	40
High (22-28)a.		[1] [20] [1] [20] [2] [2] [2] [2] [2] [2] [2] [2] [2] [
Very High (29-49)	10	6

Figure 3 presents the failure rates for each risk level of the CST for male offenders in the community supervision sample. The table clearly illustrates incremental increases in the rates of recidivism for each group. Failure rates are nine percent for low risk males, 34 percent for moderate risk males, 59 percent for high risk males, and 70 percent for very high risk male offenders. The r value of .37 reveals that the relationship between risk level and recidivism is relatively strong.

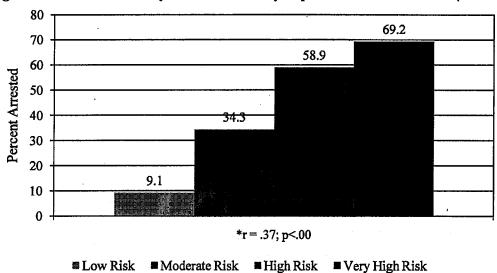


Figure 3: Predictive Validity of the Community Supervision Tool for Males (n = 513)*

Figure 4 presents the recidivism rates for the CST by risk level for females in the community supervision sample. The figure illustrates that each risk level provides groups with distinctly higher rates of recidivism. The r value of .30 reveals a considerably strong relationship between risk level and recidivism.

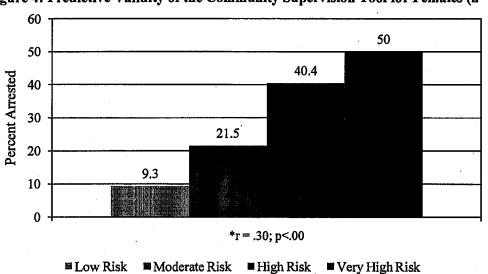


Figure 4: Predictive Validity of the Community Supervision Tool for Females (n = 165)*

Another major goal that emerged during the development of ORAS was to provide decision makers with the ability to establish priorities in the management of dynamic risk factors that were based on the likelihood of recidivism. The priorities essentially disaggregate overall risk level into risk levels by domain, placing each offender at low, moderate, or high risk to reoffend for each domain. Table 12 provides statistics for the priorities in case management for the CST. All but two of the domains (social support and substance abuse) have r values above .20, and the domain of antisocial associates exceeds .30.

Although the domains of social support and substance abuse have r values below .20, they still produce groups with increasing higher rates of recidivism. For the domain of social support, 32 percent of low risk cases recidivate, while 41 and 48 percent of moderate and high risk recidivate, respectively. On the other hand, domains with larger r values produce groups with larger differences between groups. For example, the domain of Antisocial Associates

Table 12: Priorities in Case Management for the Community Supervision Tool

Criminal	History	Education a	nd Finances	Social S	upport	Neighborhoo	d Problems
			Mark Co.				
# of Items	6	# of Items	6	# of Items	5	# of Items	2
Range	HE STATE			NR and engless		MARKET STATE	0 5
Rick	4 vir exterit	F Bask,	Airrestell	HANK.	Autrested		aniesiei
Low (0-3)	27%	Low (0-1)	21%	Low (0-1)	32%	Low (0)	17%
					5 7 15 177		
High (7-8)	53%	High (5-6)	55%	High (4-5)	48%	High (2-3)	45%
					15/17/14		

Sitistenis	e Aufolijas ir lietus	s samisident	Assuriaties 🛒	Afrikaan	Africates :		
		1 politika	. 10. 3.15.	stranovania			dalla disa disa
#Jointeins Range	0 – 6	Range	0 – 8	Range	0 – 13		
			12			10.00	
Risk	Arrested	Risk	Arrested	Risk	Arrested		THE RESERVE THE PERSON NAMED IN COLUMN
31/689 (052)	A27%	Boy (0:0)	21/64		2390		
Mod. (3-4)	40%	Mod. (2-4)	43%	Mod. (4-8)	44%		
r=.	14	r=.	32	r = 1	24		
	17		32	1-	,ZT	Wille.	
Constitution of the Consti	20301	\$		30.32.162	21,420,00	a	

produces low moderate and high risk groups that recidivate at 21 percent, 43 percent, and 64 percent respectively.

The Community Supervision Screening Tool (CSST)

Since the CST was designed to be used on a potentially large number of offenders across the state of Ohio, the Community Supervision Screening Tool was developed in order to provide counties the ability to more quickly identify moderate to high risk cases. Once identified as moderate to high risk, counties could provide these cases with the full assessment of criminogenic needs (i.e., administer the CST) while avoiding the extra resources involved with assessing lower risk cases that were not likely to need intensive treatment services.

The four items included in the CSST were chosen because of their individual relationship with recidivism and because they provided information from four different domains. Table 13 presents the items that were included in the CSST. The items gather information on the number of prior felonies, current employment, the availability of drugs, and the number of criminal friends.

Table 13: Items in the Community Supervision Screening Tool

Item	Score
Number of him Advisorient considering	a full-Non-Albaya - a
	Edition years
Currently Employed Full Time	0=Yes
	1=No
This kandly with plant dards of the	University and the land
	A THE STATE OF THE
Criminal Friends	0=None
	1=Some
	2=Majority

The CSST has a range of scores from zero to seven. Appendix B presents a bar chart that illustrates the distribution of cases on scores for the CSST from the community supervision sample. The figure indicates that although there is a slight skew to the distribution, the majority of cases fall between three and five, with fewer cases falling at the tails of the distribution. Table 14 presents the percentage of offenders arrested at each risk score for the CSST. The failure rates range from nearly four percent at the lowest score to 80 percent at the highest score. The table indicates that as each score increases, the percentage of offenders that recidivated increases. Further, the r value of .38 indicates a relatively strong relationship between the CSST risk score and recidivism.

Table 14: Percentage of Failures by Risk Score on the Community Supervision Screening Tool (n = 678)*

Risk Score	Total Cases	Percent Arrested	
1	49	10.2	
3	115	28.7	
	NAME OF BUSINESS		
5	144	49.3	
1 7 1 6 C. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92.3		
7	25	80.0	

^{*}r = .28, p < .00

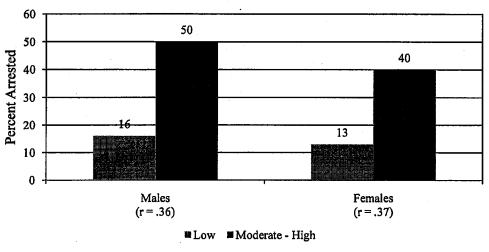
Since the CSST was designed to screen out low risk cases, cutoffs were identified that separated offenders into two groups: low risk or moderate/high risk. Preliminary analyses revealed that optimal cutoff scores for the CSST were different between males and females. Table 15 presents the distribution of cases by risk level for the CSST. As the table indicates, 23 percent of males were identified as low risk cases by the CSST, while over 50 percent of females were identified as low risk.

Table 15: Distribution of Cases by Risk Level for the Community Supervision Screen Tool

Level	N	Percent
Males		
Low (0-2)	119	23.2
Voiderate # Billio (5H)	324 24 24	16768 L
Total	513	100.0
Uremales - The Control of the Contro		
Low (0-3)	88	53.3
T-4-1		
Total	165	100.0

Figure 5 presents the failure rates for risk levels of the CSST by gender. Of males that were identified as low risk, 16 percent were rearrested compared to 50 percent of those identified as moderate/high risk. For females, 13 percent of offenders identified as low risk recidivated, while 40 percent of those identified as moderate/high risk recidivated. The r values of .36 and .37 indicate that the CSST performs well in distinguishing between low and high risk offenders for both males and females.

Figure 5: Predictive Validity of the Community Supervision Screening Tool by Gender



*All r values p <.05

The Prison Intake Tool (PIT)

As mentioned previously, the PIT is designed to provide case managers an assessment instrument that can be used to prioritize prison treatment based on the likelihood of recidivism. Table 16 presents descriptive statistics for the prison intake sample. The sample was 63 percent male, 54 percent white, and had an average age of 33. The average follow-up was 13 months, and 40 percent experienced a new arrest during the follow-up period.

The self-report survey and structured interview guide provided a total of 200 potential predictors of recidivism. Of these, only items that were related to recidivism were included in the final PIT instrument. Table 17 presents the number of items in each of the domains assessed using the PIT⁴. In all, the CST consists of a total of 30 items from 5 domains: age, criminal history, education employment and finances, family and social support, substance abuse, and criminal lifestyle.

Table 16: Descriptive Statistics for the Prison Intake Sample (n = 423)

Variable	N	Percent
Male	267	63.1
the Female of the Land of the College	196牒 謙	
Race		
L. White I is a life of the control		(A) 4 (4) (A) 4 (5) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A
African American	164	38.8
Other Control		
Any New Arrest		
Yesin and the		
No	254	60.0
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Sold and the Reinger Constitution
Months at Risk 12 2 h & 1		
	(2.1 SD)	-
	(9.3 SD)	

⁴ See the PIT score sheet in Appendix A for list of all variables included in the ORAS-PIT

Table 17: Domains for the Prison Intake Tool

Domain	Number of Items
(4) (4) (4) (4) (4) (4) (4) (4)	
Criminal History	. 7
i kahiga (o) Primploximent sind Pinagdes 🔒 🔻	
Family and Social Support	5
Substance Abuse 11 12 4	
Criminal Lifestyle	7
Clotal Company of the	

The distribution of cases on scores for the PIT is presented in Appendix A. The figure reveals that the scores range from three to 29, with the majority falling near the center of the distribution, in dicating that the distribution approaches normality. Table 18 presents failure rates by PIT risk score for the prison intake sample. The table reveals that as scores on the PIT increase, the percentage individuals that recidivated also increases (r = .36).

Table 18: Percentage of Failures by Risk Score for the Prison Intake Tool (n=423)*

Risk Score	Total Cases	Percent Arrested	Risk Score	Total Cases	Percent Arrested
				(P()	
1	0	-	22	19	79
3	1	0	24	9	89
				A Company	
5	7	14	26	7 ·	71
densi 6 anti 5		r parti graditiri famir	7/2 (27/2)		排資 250 年 生
7.	10	10	28	1	100
	5.0		122		
9	12	25	30	0	_
W. L. L.		25			
11	28	29	32	0	-
	27			A TABLE OF THE STREET	
13	26	39	34	U	
	31	32	26		
15	31	32	36	U Company	
17	2.5	48	38	0	Addition of the
17	2.9	40	30	U III	
19	26	58	40	Λ	
\tilde{z}_0	20	- 0	-10	V	
		to a state of the	MANAGED AND AND AND AND AND AND AND AND AND AN		

^{*} r value = .36, p<.000

Similar to the Community Supervision Tool, the concurrent validity of the PIT involved comparing the predictive validity of the PIT to the LSI-R and the Wisconsin Risk/Needs assessments. For consistency, offenders were separated into three risk levels for each instrument, low, moderate, and high. Figure 6 compares the recidivism rates for these groups for each assessment instrument. Although the LSI-R and Wisconsin Instrument do provide substantive differences between low and moderate risk offenders, the difference between moderate and high risk offenders is somewhat small. On the other hand, the PIT provides a 20 percentage point difference between low and moderate risk offenders and a 35 percentage point difference between moderate and high risk offenders. The r value of .37 for the PIT also indicates that it outperforms the LSI-R and Wisconsin Risk/Needs Assessment.

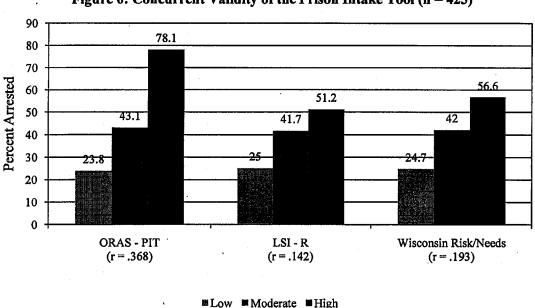


Figure 6: Concurrent Validity of the Prison Intake Tool (n = 423)*

Preliminary analyses indicated that the PIT produced four distinct risk levels for male offenders and only three groups for females. Table 19 presents the distribution of risk levels for the PIT by gender. For males, nine percent of the cases are low risk, 41 percent are moderate risk, 43 percent are high risk, and six percent are very high risk. For females, low risk cases account for 42 percent of the sample, moderate risk cases account for 39 percent of the sample, and high risk cases account for 19 percent of the sample. Taken together, this suggests that females have a higher percentage of low and moderate risk cases than males.

Table 19: Distribution of Cases by Risk Level for the Prison Intake Tool

Level	N	Percent
Marks (n=267) 114, 22, 22		
Low (0-8)	24	9
High (17-24)	115	43
Myery, Ittaly (254)	206年4月2日 - 17 - 17 - 18 - 18 - 18 - 18 - 18 - 18	1. 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十
Females $(n = 165)$		
E-110xx (0512)2.48		
Moderate (13-18)	61	39
High (195) containing the		

Figure 7 presents percentage of males that were arrested by risk level on the PIT. The chart illustrates that increases in recidivism are seen with increases in risk level. Further, the r value of .32 indicates a relatively strong relationship between the PIT risk levels and recidivism. Seventeen percent of low risk cases recidivated, 32 percent of moderate risk cases recidivated, 58 percent of high risk cases recidivated, and 71 percent of very high risk cases recidivated.

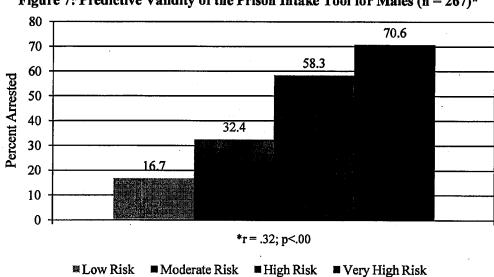


Figure 7: Predictive Validity of the Prison Intake Tool for Males (n = 267)*

Figure 8 presents the recidivism rates by risk level for females in the prison intake sample. The figure reveals substantial differences in recidivism between risk levels: low risk cases had a recidivism rate of 17 percent, 33 percent of moderate risk cases recidivated, and 63 percent of high risk cases recidivated. These differences were significant and produced a relatively large r value of .35.

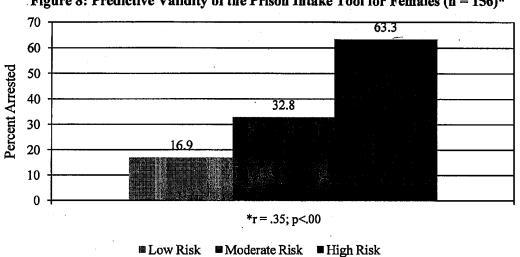


Figure 8: Predictive Validity of the Prison Intake Tool for Females (n = 156)*

A major goal that emerged during the development of the PIT was to provide decision makers with the ability to establish priorities in the treatment of offenders that are based on the likelihood of reoffending. Priorities in cases management can be determined by disaggregating risk levels of the PIT by domain. Table 20 presents statistics for each of the case management domains. Although most of the domains reach r values at or near .20, the social support domain has a somewhat low r value of .12. Still, the table indicates that case management domains are individually able to classify offenders into different groups based on the likelihood to recidivate, especially in the domains of criminal history, education and finances, and criminal lifestyle. For example in the education and finances domain, 29 percent of low risk cases were arrested, 44 percent of moderate risk cases were arrested, and 53 percent of high risk cases were rearrested.

Table 20: Priorities in Case Management for the Prison Intake Tool

Criminal H	Criminal History		and Finances	Social S	ıpport
# of Items	6	# of Items	6 *	# of Items	5 0 1 1 5
Risk Low (0-3)	Aktiestei 30%	Low (0-3)	Arrested 29%	Risk Low (0-2)	Avricested 2 28%
High (7-10)	57%	High (6-7)	53%	High (5-6)	59%
Substance A	buse	Crimina	l Lifestyle		
# of Items Range III	5 0 = 6	# of Items	4 4 10 Ha		
R(s); Low (0-1)	Arrested 33%	Risk Low (0-2)	Avrrestett 29%	1	
Mod (2) High (4-5)	60%	High (6-8)	61% 214 i		

The Reentry Tool (RT)

The RT was designed to be administered within 6 months of release from prison. The average length of incarceration for the prison release sample ranged from two to 452 months, with an average of 35 months. After release from prison, arrest records were checked approximately one year after the final interview was conducted. Table 21 presents descriptive statistics for the reentry sample. The sample is 23 percent female, 46 percent African American, and has an average age of 32. During the average of 13 months at risk, 43 percent of the sample was rearrested.

Table 21: Descriptive Statistics for the Reentry Sample (n = 277)

Variable	N	Percent
Sex Sex State of the second		
Male	212	76.5
Liemale		
Race		
White I William Laborate	1854, 1964	
African American	127	45.8
Other was a light fair and the	San Album Ca	战争。2.2.2.战略54000000000000000000000000000000000000
Any New Arrest		
		######################################
No `	159	57.4
一型的 共享的 国际企业的企业,在共享的企业和的	ninga-alvoragoran as	ite as a said Range at the fact
Months at Risk	12.8	8-17
	a Quade i	
Age	31.6	18 – 57
一、自己的数据的表示。	A (SŽISD) III	

The self-report survey and structured interview guide provided a total of 200 potential predictors of recidivism. Table 22 presents the number of items in each of the domains assessed using the RT.⁵ In all, the RT consisted of a total of 20 items from four domains and had

⁵ See the RT scoring for in Appendix A for list of all variables included in the ORAS-RT.

potential scores that ranged from zero to 28. Domains for the RT are: age, criminal history, social bonds, and criminal attitudes. Appendix B presents a bar chart that displays the distribution of cases on the reentry tool. The graph for the RT illustrates that the distribution approaches normality, with most cases falling at the center of the distribution and fewer cases on the tails.

Table 22: Domains for the Reentry Tool

Domain	Number of Items
Age things.	THE STANFORM OF THE PROPERTY OF THE LANDS
Criminal History	8
Stockel Beords	
Criminal Attitudes	7
Done was the first that the	

Table 23 presents the percentage of offenders that recidivated at each risk score for the RT. The table reveals that there is a general upward trend in the percentage of offenders who were arrested that corresponds with increasing scores on the RT. The r value of .36 indicates that the relationship between RT risk scores and recidivism is relatively strong.

Table 23: Percentage of Failures by Risk Score for the Reentry Tool (n=277)*

Risk Score	Total Cases	Percent Arrested	Risk Score	Total Cases	Percent Arrested
1.00778	his (Mar		25 and 5 and 9		
. 1	0	_	16	19	63
275萬計	(4) (4)				40.4604
3	5	0	18	10	6
1		720			
5	4	0	20	4	100
4.6.3.4			1000 000 221 SA		
7	11	18	22	1	U
		20	24		
9	22	32	24	U National Residence	-
Marking Marking And	24	20	36		
11	24	29	1 20	0	
J1 39 L/40 3 1195		3,10	Park - Programme ///scraighting		

13 21 48 28 0 —

* r value = .36; p<.000

The concurrent validity for the RT was evaluated by comparing the predictive power of the RT to the LSI-R and the Wisconsin Risk/Needs Assessment. Figure 9 presents statistics for the concurrent validity of the RT. The results reveal that although the RT is able to establish significantly different risk groups, the LSI-R and Wisconsin Risk/Need do not. The Wisconsin Instrument in particular struggled, primarily because the small percentage of high risk cases (8% of the sample) recidivated at lower rates than did moderate risk cases. The RT produced a low risk group with a 23 percent recidivism rate, a moderate risk group with a 53 percent recidivism rate, and a high risk group with a 69 percent recidivism rate. The r value of .30 is substantially stronger than those produced by the LSI-R and the Wisconsin Risk/Need Assessment.

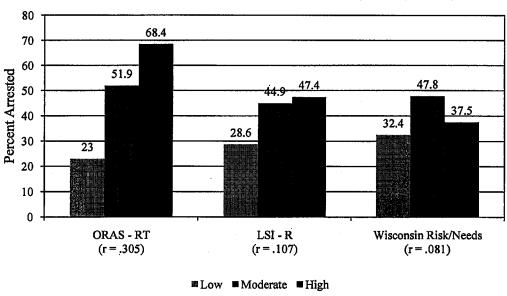


Figure 9: Concurrent Validity of the Reentry Tool (n = 423)*

*All r values p <.05

Preliminary analyses revealed that since females were less likely to recidivate, separate cut off scores should be made for males and females. Table 24 presents the distribution of the

reentry sample on risk levels for the RT. For males, the majority of cases are moderate risk, with similar percentages of cases falling at low and high risk levels. On the other hand, low risk is the modal value for females. These findings are similar to the Prison Intake Tool and indicate that females tend to score at lower risk levels than males on the assessment instruments.

Table 24: Distribution of Cases by Risk Level for the Reentry Tool

Level	N	Percent
Males (n. #212)		
Low (0-9)	47	22.2
	56	26.4
High (16+)		15-93475 (edigilar) (1975) - 15-544473 (1975) - 15-544473 (1975)
Low (0-10)	31	47.7
.: / Mioderale (T.L. 14)		
High (15+)	9	13.8

The graph in Figure 10 presents the percentages of male offenders that recidivated for each risk level of the RT. The results indicate increasing rates of recidivism for each risk level. That is, 21 percent of low risk cases were rearrested, 50 percent of moderate risk cases were rearrested, and 64 percent of high risk cases were rearrested. The r value of .29 indicates that the RT does a good job at distinguishing between low, moderate, and high risk cases.

Figure 10: Predictive Validity of the Reentry Tool for Males (n = 212)*

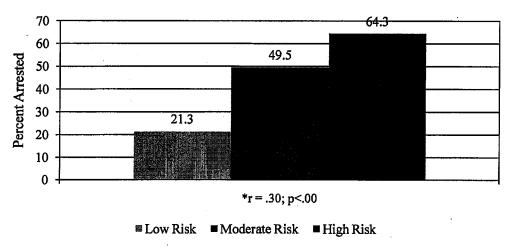


Figure 11 presents the recidivism rates by risk level for females in the reentry sample. The graph reveals that the RT does a very good job of distinguishing between low and moderate risk cases. Only six percent of low risk females were arrested, while 44 percent of moderate risk cases were arrested, and 56 percent of high risk cases were arrested. The large r value of .44 is likely a result of the substantial difference between low and moderate risk females.

Figure 11: Predictive Validity of the Reentry Tool for Females (n = 65)*

60

55.6

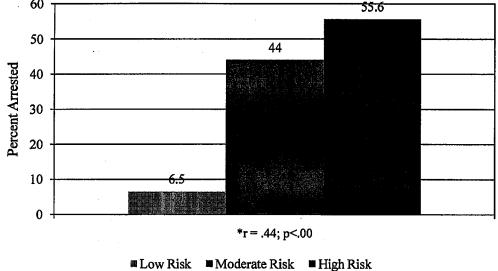


Table 25 presents risk levels for case management domains. These statistics disaggregate the overall risk level by domain so that needs in specific domains can be prioritized. All three domains provide risk levels that are significantly associated with changes in the likelihood of being arrested, although some perform better than others. The domain of social bonds has the lowest r value of .16, although the criminal attitudes domain has an r value of .22 and the criminal history domain has an r value of .28.

Table 25: Priorities in Case Management for the Reentry Tool

Criminal History Social		Social B	onds		
		· · · · · · · · · · · · · · · · · · ·			
# of Items	8	# of Items	4	# of Items	7
UKANDA ANTAL	##101==1 <u>12</u>	interioris di		Range (# British	
Register States	Angelesitet	ned the	avidesitėji	il Risk	Zauges (eds.
Low (0-3)	23%	Low (0-2)	32%	Low (0-3)	30%
Med. (4-7)	45%	Majaki(si))	(#B51/6)	May 1946)	30%
High (8-12)	65%	High (4)	52%	High (7-11)	58%
			ő.		

SUMMARY AND CONCLUSION

This section of the report provides some conclusions based on the findings of the current study. It begins with a summary of the results for the validation of ORAS. Limitations of the current study are also discussed. The report concludes with some recommendations on the future of the ORAS.

Summary of Findings

The pretrial assessment instrument consists of seven items from four domains: criminal history, employment, substance abuse, and residential stability. The data indicate that the PAT

produces risk levels that significantly differed on the likelihood of either rearrest or failure-to-appear. Further, the pretrial instrument maintained an acceptable relationship with recidivism (r = .22).

The Community Supervision Tool consists of 35 items from seven domains: criminal history, education, employment and finances, fa mily and social support, n eighborhood problems, substance abuse, antisocial associations, and antisocial attitudes and behavioral problems. The validation results revealed that the risk levels on the CST displayed increasingly higher rates of recidivism for both male and females. The CST had a correlation of .37 with recidivism for males and .30 for females. The Community Supervision Screening Tool is a four item instrument designed to quickly identify low risk cases that do not need the full assessment. It had a correlation of .36 with recidivism.

The Prison Intake Tool consisted of 31 items from five domains: criminal history, education, employment, and finances, family and social support, substance abuse, and criminal lifestyle. The validation results for the PIT revealed that different cutoff scores and risk levels were optimal for males and females. Although males had four groups and females only had three, the percentages of cases arrested increased as risk level increased for both genders. The correlation between risk level and recidivism was .32 for males and .35 for females.

The Reentry Tool consisted of 20 items from three domains and predicted new arrest. The three domains were criminal history, social bonds, and antisocial attitudes. The validation results revealed that optimal cutoff scores were different for males and females. Still, risk levels are significantly associated with increases in the recidivism rate for both genders. The correlation with recidivism was .30 for males and .44 for females.

Limitations

There were two primary limitations observed in the current study. The first limitation revolves around the generalizability of the sample to all offenders in the Ohio criminal justice system. Although the data collection period gathered information on over 1,800 offenders in Ohio, it would be imprudent to assume that the findings are representative of all offenders in Ohio. First, resource constrains limited the inclusion of cases from all counties and correctional institutions. Second, although the samples were gathered from specific populations, certain types of cases may be underrepresented in the population (e.g., sex offenders, Hispanic offenders, female offenders). The underrepresentation in the population leads to small numbers of these types of offenders in the sample. For example, the findings from the RT were based on a sample size of 65 females. Although the results provide evidence that females have a distribution on the risk levels that is different from men, the findings should be considered preliminary until data can be collected on a larger sample of women who are released from prison.

A second limitation to the current study revolves around measurement error. The major source of data collection for this study was the structured interview, which was undertaken by trained research staff from the University of Cincinnati. Further, the informed consent process identified a sample that offenders who were willing to undergo the interview process. In short, the structured interview process utilized to gather the data will likely be somewhat different than the process used by criminal justice officials to interview cases and assign risk once the ORAS is implemented.

Recommendations

Based on the findings and limitations discussed above, several recommendations can be made. The first major recommendation is that revalidation studies be conducted of ORAS.

Once ORAS becomes automated, the costs and resources involved with data collection should be substantially reduced because assessment scores will be previously recorded by criminal justice personnel. Instead, probability samples can be drawn for each instrument using large data bases that store offender risk scores every time an assessment is entered.

Revalidation studies will provide further evidence that the instruments in ORAS are able to predict recidivism across multiple samples from the same population. Further, the automation and storage of ORAS data will allow researchers to gather stratified probability samples in order to 1) provide a sample that is representative of all counties in Ohio and 2) oversample underrepresented groups. Also, revalidation studies should seek to extend the follow-up time. Although an average of 12 months is adequate, research suggests that 18 to 24 month follow-up times are optimal (Jones, 1996). Finally, revalidation will also address the issues of measurement error. That is, data can be gathered on assessments that are given by personnel within the criminal justice system, examining the predictive validity of ORAS in a real world setting.

Another major recommendation is that ODRC follow the protocol developed by the University of Cincinnati for training personnel on the assessment instruments. Proper training cannot be stressed enough, because the efficacy of every assessment is heavily dependent upon the person who conducts the interview and scores the risk level. This is especially important because, although the interview questions are structured to maximize reliability, scoring some of the items is reliant upon the professional judgment of the interviewer. Training will also help to minimize the differences in measurement between University research staff conducting the interviews and criminal justice personnel. Not only is initial training important, but it is

recommended that a system be developed that lays out the process of training, provides reliability checks for interviewers, and lays out guidelines for retraining.

In sum, the development of ORAS produced five assessment tools designed to predict the likelihood of recidivism at different points in the criminal justice process. These tools not only are used to assign supervision levels, but were also designed to assist case managers in targeting dynamic risk factors and identifying barriers to treatment. Overall, the results from the validation are favorable, indicating that each tool was able to clearly distinguish between groups of offenders with escalating rates of recidivism. Some caution should be taken in generalizing the findings from this sample to all offenders in Ohio, although the automation of ORAS makes future revalidation studies more likely to be generalizable and less expensive to undertake.

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APPENDIX A: SCORING FORMS FOR EACH ASSESSMENT

OHIO RISK ASSESSMENT SYSTEM: PRETRIAL ASSESSMENT TOOL (ORAS-PAT) Date of Assessment: Name: __ Case#: Name of Assessor: Pretrial Items Verified 1.1. Age at First Arrest 0=33 or older 1=Under 33 1.2. Number of Failure-to-Appear Warrants Past 24 Months 0=None 1=One Warrant for FTA 2=Two or more FTA Warrants 1.3. Three or more Prior Jail Incarcerations 0=No 1=Yes 1.4. Employed at the Time of Arrest 0= Yes, Full-time 1= Yes, Part-time 2= Not employed 1.5. Residential Stability 0=Lived at Current Residence Past Six Months 1=Not Lived at Same Residence 1.6. Illegal Drug Use during Past Six Month 0=No 1=Yes 1.7. Severe Drug Use Problem 0=No 1=Yes Total Score: Scores Rating % of Failures % of Failure to Appear % of New Arrest 0-2 Low 5% 5% 0% 3-5 Moderate 18% 12% 7% 29% 6+ High 15% 17%

Please State Reason if Professional Override:	
Other Areas of Concern. Check all that Apply:	
Low Intelligence* Physical Handicap Reading and Writing Limitations* Mental Health Issues* No Desire to Change/Participate in Programs* Transportation Child Care Language Ethnicity Cultural Barriers History of Abuse/Neglect Interpersonal Anxiety Other	

C	OHIO RISK ASSESSMENT SYSTEM: COMMUNITY SUPERVISION 1	FOOL (ORAS-CST)
Name:	Date of Assessment:	
	Name of Assessor:	
1.0 CRII	MINAL HISTORY: \$7 10 10 10 10 10 10 10 10 10 10 10 10 10	State of the analysis of
	.1 Most Serious Arrest Under Age 18 0=None	
	1=Yes, Misdemeanor	
1	2=Yes, Felony 1.2 Number of Prior Adult Felony Convictions	
	0=None	<u> </u>
	1=One or Two 2=Three or more	
1	.3 Prior Sentence as Adult to a Jail or Secure Correctional Facility 0=No	
1	1=Yes .4 Received Official Misconduct while Incarcerated as Adult	
1	0=No	
1	1=Yes .5 Prior Sentence to Probation as an Adult	
1	0=No	
1	1=Yes .6 Community Supervision Ever Been Revoked for Technical Violation as A	dult
•	0=No	
	1=Yes	Criminal History:
	CATION, EMPLOYMENT, AND FINANCIAL SITUATION:	
2	.1 Highest Education 0= High School Graduate or Higher	
	1= Less than High School or GED	·
2	.2 Ever Suspended or Expelled From School	
	0=No 1=Yes	
2	.3 Employed at the Time of Arrest 0= Yes	
	0= Yes 1= No	
2	.4 Currently Employed	
	0=Yes, Full-time, Disabled, or Retired 1=Not Employed or Employed Part-time	
2	.5 Better Use of Time	
	0=No, Most Time Structured 1=Yes, Lots of Free Time	
2	.6 Current Financial Situation	
	0=Good 1=Poor	
	Total Score in Education, Employ	ment, Financial:

The state of the s		
	Y AND SOCIAL SUPPORT	<u> </u>
3.1	Parents have Criminal Record	
	0= N ₀	
	1=Yes	
3.2	Currently Satisfied with Current Marital or Equivalent Situation	
	0=Yes	
	1=No	
3.3	Emotional and Personal Support Available from Family or Others	
	0=Strong Support	
	1=None or Weak Support	
3.4	Level of Satisfaction with Current Level of Support from Family or Others	
	0=Very Satisfied	
	1=Not Satisfied	
3.5	Stability of Residence	
]	0=Stable	<u> </u>
	1=Not Stable	
	Total Score on Family and Social Support:	81 99417
17.5	TOTAL SCORE OIL CALLINY ALLO SUCER SUPPORT.	(Established)
4907 1	。 第一章	Add to the second
		S 45
	BORHOOD PROBLEMS	
4.1	High Crime Area	
]	0=No	
	1=Yes	
4.2	Drugs Readily Available in Neighborhood	
	0=No, Generally Not Available	
	1=Yes, Somewhat Available	
	2=Yes, Easily Available	
4 4 1	Total Score in Neighborhood Problems:	
		1 (5 (5 (5 (5 (5 (5 (5 (5 (5 (
50 SHEST		
THE REPORT OF THE PARTY OF THE	VNCE:USE	
	ANCE;USE	
	Age First Began Regularly Using Alcohol	
	Age First Began Regularly Using Alcohol 0=17 or older	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs	
5.1	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No	
5.1 5.2 5.3	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes	
5.1 5.2 5.3	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems	
5.1 5.2 5.3	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None	
5.1 5.2 5.3	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time	
5.1 5.2 5.3 5.4	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time 2=Two or More Times	
5.1 5.2 5.3 5.4	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time	
5.1 5.2 5.3 5.4	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time 2=Two or More Times	
5.1 5.2 5.3 5.4	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time 2=Two or More Times Drug Use Caused Problems with Employment	
5.1 5.2 5.3 5.4	Age First Began Regularly Using Alcohol 0=17 or older 1=Under Age 17 Longest Period of Abstinence from Alcohol 0=Six months or Longer 1=Less than Six months Offender Ever Used Illegal Drugs 0=No 1=Yes Drug Use Caused Legal Problems 0=None 1=One Time 2=Two or More Times Drug Use Caused Problems with Employment 0=No	

6.0 PEER ASSOCIATIONS	and the Course
6.1 Criminal Friends	
0=None	
1=Some	
2=Majority	
6.2 Contact with Criminal Peers	
0=No Contact with Criminal Peers	
1=At Risk of Contacting Criminal Peers	
2=Contact or Actively Seeks Out Criminal Peers 6.3 Gang Membership	
0=No, Never	
1=Yes, but Not Current	
2=Yes, Current	
6.4 Criminal Activities	
0=Strong Identification with Prosocial Activities	<u> </u>
1=Mixture of Pro- and Antisocial Activities	
2=Strong Identification with Criminal Activities	
Potal Score for	Peers:
	1734
770 CRIMINAL ALTUHUDES AND BEHAVIORAL PATTERNS	
For the Following Items Please Rate the Offender:	
7.1 Criminal Pride	[
0=No Pride in Criminal Behavior	<u> </u>
1=Some Pride	
2=A Lot of Pride	
7.2 Expresses Concern about Others' Misfortunes	
0=Concerned about Others	
1=Limited Concern	
2=No Real Concern for Others	
7.3 Feels Lack of Control Over Events	
0=Controls Events	
1=Sometimes Lacks Control	
2=Generally Lacks Control	
7.4 Sees No Problem in Telling Lies	
0=No	
1=Yes	
7.5 Engages in Risk Taking Behavior	L
0=Rarely Takes Risks	
1=Sometimes Takes Risks	
2=Generally Takes Risks	
7.6 Walks Away from a Fight	
0=Yes 1=Sometimes	
2=Rarely	
7.7 Believes in "Do Unto Others Before They Do Unto You"	
0=Disagree	<u> </u>
1=Sometimes	•
2=Agrees	
. f Total Score Criminal Attitudes and Behavioral Pa	tterns:
州东京、西京教育、北京市、中央、中央、中央、北京、北京市、安全、北京市、大学、北京、北京、北京、北京、北京、北京、北京、北京、北京、北京、北京、北京、北京、	
	a va pom agramano escular (c. 122).
The state of the s	

Risk Cate	egories for MAL	ES:	Risk Cat	egories for FEM	ALES :
Scores	Rating	Percent of Failures	Scores	Rating	Percent of Failures
0-14	Low	9%	0-14	Low	7%
15-23	Moderate	34%	15-21	Moderate	23%
24-33	High	58%	22-28	High	40%
34+	Very High	70%	29+	Very High	50%

			The state of the s		
Domain Levels					
1.0 Criminal History			2.0 Education, Employment, and	l Financial Situation	
•	Score	Failure	Score	Failure	
	Low (0-3)	27%	Low (0-1)	21%	
	Med (4-6)	46%	Med (4-6)	37%	
	High (7-8)	53%	High (7-8)		
3.0 Family and Social			4.0 Neighborhood Problems		
•	Score	Failure	Score	Failure	
	Low (0-1)	32%	Low (0)	17%	
<u> </u>	Med (2-3)	41%	Med (1)	35%	
	High (4-5)	48%	High (2-3)	45%	
5.0 Substance Use			6.0 Peer Associations		
•	Score	Failure	Score	Failure	
	Low (0-2)	27%	Low (0-1)	21%	
	Med (3-4)	40%	Med (2-4)	43%	
	High (5-6)	45%	High (5-8)	64%	
7.0 Criminal Attitude		al Patterns			
	Score	Failure			
	Low (0-3)	24%			
	Med (4-8)	44%		•	
	High (9-13)	59%			

Professional Override:
Reason for Override (note overrides should not be based solely on offense):
Other Areas of Concern. Check all that Apply:
Low Intelligence* Physical Handicap Reading and Writing Limitations* Mental Health Issues* No Desire to Change/Participate in Programs* Transportation Child Care Language Ethnicity Cultural Barriers History of Abuse/Neglect Interpersonal Anxiety Other

OHIO RISK ASSESSMENT SYSTEM - COMMUNITY SUPERVISION SCREENING TOOL (ORAS-CSST)

Name: Case#:				ssessment:		
					ado e in	e su modele i de la companya de la c
	0=None 1=One or Two	Felony Convictions	•			
2.0 Curre		Disabled, or Retired or Employed Part-time				
(s Readily Availab D=No, Generally N I=Yes, Somewhat 2=Yes, Easily Ava	Available				
4.0 Crim	inal Friends)=None l=Some 2=Majority					
4.23 à	e-viajorky			t in the second of the second	TOTALSEQ	rus T
Risk Cat	egories for MAU	STATE OF THE STATE	Risk Cate	egories for FEA	MALES	
Scores 0-2 3+	Rating Low High	Percent of Failures 15% 50%	Scores 0-3 4+	Rating Low High	Percent of 12% 40%	f Failures

OHIO RISK ASSESSMENT SYSTEM - PRISON INTAKE TOOL (ORAS-PIT) Name: _ Date of Assessment: Case#: Name of Assessor: _ Age at Time of Assessment 0=24+ 1=18-23 LO CRIMINAL HISTORY 1.1. Most Serious Arrest Under Age 18 0=None 1=Yes, Misdemeanor 2=Yes, Felony 1.2. Prior Commitment as a Juvenile to Department of Youth Services 0=No 1=Yes 1.3. Number of Prior Adult Felony Convictions 0=None 1=One or Two 2=Three or more 1.4. Arrests for Violent Offense as an Adult 0=No 1=Yes 1.5. Number of Prior Commitments to Prison 0=None 1=One 2=Two or More 1.6. Ever Received Official Misconduct while Incarcerated as an Adult 0=No 1=Yes 1.7. Ever Had Escape Attempts as Adult 0=No 1=Yes

2.0 SCHOOL BEHAVIOR AND EMPLOYMENT	
2.1. Ever Expelled or Suspended from School	
0= No	•
1= Yes	
2.2. Employed at the Time of Arrest	·
0=Yes	
1=No	
2.3. Employed Just Prior to Incarceration	
0=Yes Full-time or Disabled	
1=Not Employed or Employed Part-time	
2.4. Attitudes toward Boss/Employer	
0=Good Relationship	
1=Poor Relationship	
2.5. Longest Length of Employment Past Two Years	
0=18 Months or More	
1=1-17 Months	
1= None	
2.6. Better Use of Time	
0=No, Most Time Structure	
1=Yes, Lots of Free Time	
Total Score in School Behavior and E	nployment:
<u>经对方,是对外保证,以下的,依据是从时间,也就是不知识。但是</u> 证明,可以可以证明的一个的表示是实现而且	100
3.0 FAMILY AND SOCIAL SUPPORT	
3.1. Current Marital Status	
0= Married or Cohabitating	
1= Single (Married but Separated), Divorced, Widowed	
3.2. Living Situation Prior to Incarceration:	
1	
0=Significant Other 1=Parents, Friends, or Other	
2=Alone or Shelter	
3.3. Stability of Residence Prior to Incarceration	
0=Stable	L
1=Not Stable	
3.4. Emotional and Personal Support Available from Family or Others	
0=Strong Support	
1=None or Weak Support	
3.5. Level of Satisfaction with Current Level of Support from Family or Others	
0=Very Satisfied	L
1=Not Satisfied	
Total Score for Family and Soci	al Cumpete
TOTAL SECRETOR AND SUCE	arouppur, Line

	BSTANCE ABUSE AND MENTAL HEALTH	di d
4.1.	Longest Period of Abstinence from Alcohol	
	0= Six Months or Longer	
1 40	1= Less than Six Months	
4.2.	Age at First Illegal Drug Use 0=16 or Older	
	1=Under 16	
43	Problems with Employment due to Drug Use:	
1.5.	0=No	
	1=Yes	
4.4.	Problems with Health due to Drug Use	
	0=N ₀	·
	1=Yes	<u> </u>
4.5.	Ever Diagnosed with Mental Illness/Disorder	
ł	0=N ₀	
	l=Yes	
	Substance Abuse and Mental Health	
4.5		
5.0 CR	MINAL LIFESTRYLE F	5 I I
	Criminal Activities	
	0= Prosocial	L
	1= Mixture	
	2=Criminal Activities	
5.2.	Current Gang Membership	
	0= No, Never	
	1= Yes, but Not Current 2= Yes, Current	
5.3	Ability to Control Anger	
).5.	0= Good Control	L
	1= Poor Control	
5.4.	Uses Anger to Intimidate Others	
	0=N ₀	·
	1=Yes	
5.5.	Acts Impulsively	
	0=No	
	1=Yes	
5.6.	Feels Lack of Control Over Events	L
Ì	0= Controls Events 1= Sometimes Lacks Control	
	2= Generally Lacks Control	
5.7.	Walks Away from a Fight	
	0= Yes	
1	1= Sometimes	
	2= Rarely	KW
10.1	Potal Score for Criminal Lifestyle	
10 - 22		5
	TO AL SCORE	

Risk Categ	ories for MALES		Risk Cate	gories for FEMAL	ES projection
Scores	Rating	Percent of Failures	Scores	Rating	Percent of Failures
0-8	Low	17%	0-12	Low	17%
9-16	Moderate	32%	13-18	Moderate	33%
17-24	High	58% .	19+	High	63%
25+	Very High	71%			,

Domain Levels		A Property			The second secon	
1.0 Criminal History			2.0 School Behavior	and Employn	nent	
	Score	Failure		Score	Failure	
	Low (0-3)	30%		Low (0-3)	29%	
	Med (4-6)	47%		Med (4-5)	44%	
	High (7-10)	57%		High (6-7)	55%	
3.0 Family and Social	Support		4.0 Substance Abuse and Mental Health			
-	Score	Failure		Score	Failure	
	Low (0-2)	28%		Low (0-1)	33%	
<u> </u>	Med (3-4)	45%		Med (2-3)	44%	
	High (5-6)	60%	· ·	High (4-5)	60%	
5.0 Criminal Lifestyle	. ,					
•	Score	Failure				
	Low (0-2)	29%	1			
	Med (3-5)	46%				
	High (6-11)	60%				

Professional Override:	·	· · · · · · · · · · · · · · · · · · ·
Reason for Override (note overrides should not be based solely on offense)		
Other Areas of Concern. Check all that Apply:		
Low Intelligence*	· ·	
Physical Handicap		
Reading and Writing Limitations*	•	
Mental Health Issues*		
No Desire to Change/Participate in Programs*		
Language		
Ethnicity		
Cultural Barriers		
History of Abuse/Neglect		•
Interpersonal Anxiety		
Other		
If these items are checked it is strongly recommended that furt	ther assessment be conducted to determine le	evel or
severity.		

OHIO RISK ASSESSMENT SYSTEM - REENTRY TOOL (ORAS-RT) Name: Date of Assessment: Name of Assessor: Age at Time of Assessment 1=18-23 LO CRIMINAL HISTORY 1.1. Most Serious Arrest Under Age 18 0=None 1=Yes, Misdemeanor 2=Yes, Felony 1.2. Age at First Arrest or Charge 0 = 26 +1=16-25 2=15 or younger 1.3. Prior Commitment as a Juvenile to Department of Youth Services 0=No 1=Yes 1.4. Current Offense Drug Related 0=No l≔Yes 1.5. Number of Prior Adult Felony Convictions 0=None 1=One 2=Two or More 1.6. Number of Prior Adult Commitments to Prison 0=None 1=One 2=Two or More 1.7. Ever Received Official Infraction for Violence While Incarcerated as an Adult 1=Yes 1.8. Ever Absconded from Community Supervision as an Adult 0=No 1=Yes Total Score in Criminal History:

	Ever Suspended or Expelled from School 0= No	
2.2.	1= Yes Employed at the Time of Arrest 0=Yes 1=No	
2.3.	Ever Quit a Job Prior to Having Another One 0=No 1=Yes	
2.4.	Marital Status 0=Married or Cohabitating with a Significant Other 1=Single, Married but Separated, Divorced, or Widowed	
	Total Score in Social Bonds.	
3:0 CRI	MINAL ATTITUDES, AND BEHAVIORAL PATTERNS	91. 2
3.1.	Criminal Pride	
	0= No Pride in Criminal Behavior	
	1= Some Pride in Criminal Behavior	
22	2= A lot of Pride in Criminal Behavior	
3.2.	Believes that it is possible to Overcome Past 0= Yes	
	1= No	
3.3.	Uses Anger to Intimidate Others 0=No	
1 ,,	1=Yes	
3.4.	Walks Away from a Fight 0= Yes	
1	1= Sometimes	
	2= Rarely	
3.5.	Problem Solving Ability	
	0=Good	
	1=Poor	
3.6.	Expresses Concern About Other's Misfortunes	
	0= Concerned about Others	
	1= Limited Concern	
2.7	2= No Real Concern for Others Paliance in "Pa Liste Others Pafers Theor Pa Liste Way"	
3.7.	Believes in "Do Unto Others Before They Do Unto You" 0= Disagree	
	1= Sometimes	
	2= Agree	
1	Total Score for Criminal Attitudes and Behavioral Patterns:	
	A CONTROL MANAGEMENT OF THE PARTY OF THE PAR	
	Epigene (I Processor and I be the supplication of the supplication	
	TOTAL SCORE:	

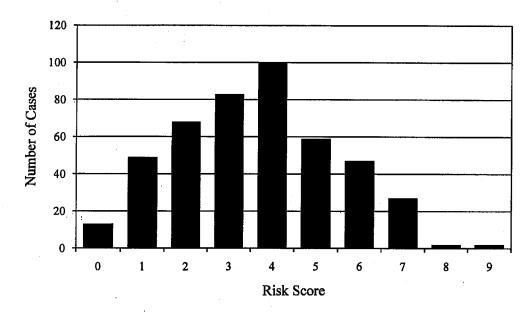
Risk Catego	ries for MALES		Risk Cate	gories for FEMAL	ES
Scores	Rating	Percent of Failures	Scores	Rating	Percent of Failures
0-9	Low	21%	0-10	Low	6.5%
10-15	Moderate	50%	11-14	Moderate	44%
16+	High	64%	15+	High	56%

Domain Lévels					
1.0 Criminal History			2.0 Social Bonds		
	Score	Failure		Score	Failure
	Low (0-3)	23%		Low (0-3)	32%
	Med (4-6)	45%		Med (4-5)	45%
·	High (7-12)	65%		High (6-7)	62%
3.0 Criminal Attitudes	and Behavior	al Patterns		• • •	
	Score	Failure			
	Low (0-2)	30%			
	Med (3-5)	51%			
	High (6-11)	58%		·	

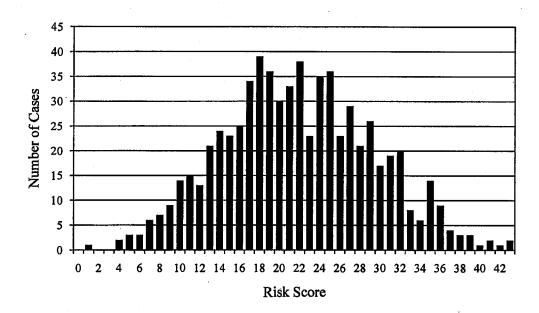
Professional Override:	
Reason for Override (note overrides should not be based solely on offense)	
Other Areas of Concern. Check all that Apply:	
Low Intelligence*	
Physical Handicap	
Reading and Writing Limitations*	
Mental Health Issues*	
No Desire to Change/Participate in Programs*	
Language	
Childcare	
Transportation	
Ethnicity	
Cultural Barriers	
History of Abuse/Neglect	•
Interpersonal Anxiety	•
Other	

APPENDIX B: THE DISTRIBUTION OF CASES ON EACH ASSESSMENT TOOL

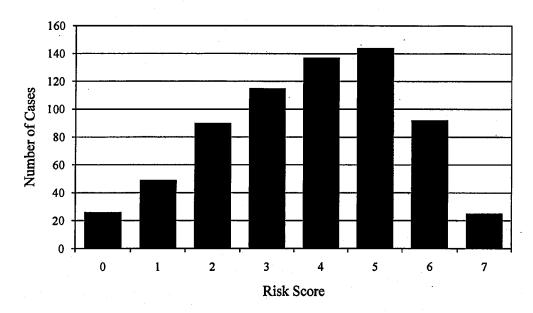
B1: Distribution of Cases on the Pretrial Assessment Tool (n = 450)



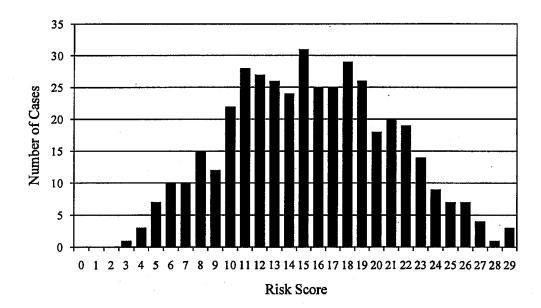
B2: Distribution of Cases on the Community Supervision Tool (n = 678)



B3: Distribution of Case on the Community Supervision Screening Tool (n = 678)



B4: Distribution of Cases on the Prison Intake Tool (n = 423)



TAB 7

CONSTRUCTED COCONINO COUNTY RISK ASSESSMENT CRITERIA

Current Offense

1	Three or more charges
1	Most serious current charge is a level 4-6 offense
2	Most serious current charge is a level 3-2 offense
3	Most serious current charge is a level 1 offense

Criminal History

1	On Probation at time of arrest
1	Pending case at time of arrest
1	Active warrant at time of arrest
1	One to ten misdemeanors (no more than 2 violent)
2	More than ten misdemeanors,
1	One to ten felonies
2	More than ten felonies
1	Prior failure to appear

Stability Factors

	Dirty I dotors
1	Two or more AZ addresses past twelve months
2	No AZ address
1	Transient
1	Less than six months at current job
2	Unemployed
1	Three to five years in community
2	Less than three years in community
1	No assets
1	No phone
1	No vehicle access

Social Factors

		_
1	Abuses drugs	1
1	Abuses alcohol	

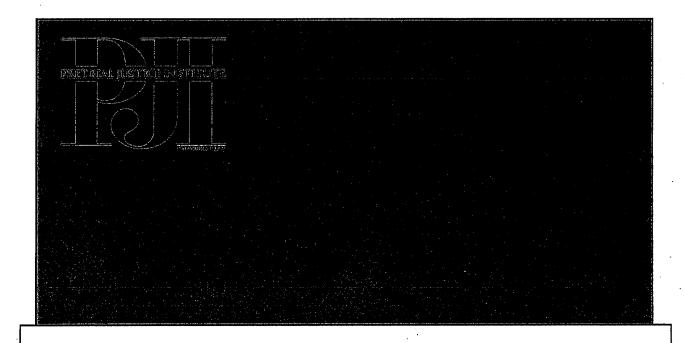
Ranges:

0 to 6 = Low (ROR)

7 to 12 = Medium (Supervised Release)

13 to 18 = High (No recommendation for non-financial release)

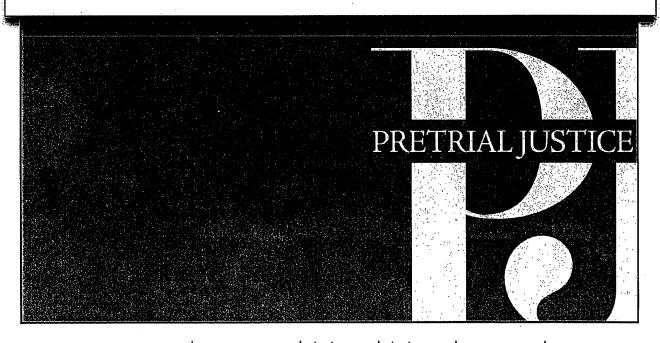
The classifications are quite successful at creating the step pattern we would wish to see among Coconino County defendants who were released pretrial. The step patterns in charts 12 and 13 suggest that the new risk instrument performs better at predicting failure to appear than rearrest.



VALIDATION OF THE COCONINO COUNTY PRETRIAL RISK ASSESSMENT TOOL

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August 2010



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ACKNOWLEDGEMENTS

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PJI wishes to acknowledge Mary Walsh-Navarro, Director of the Coconino County Pretrial Services, and her staff, for their hard work and dedication in the monumental task of gathering the data required for this analysis, and assuring its accuracy.

ABSTRACT

The goal of this analysis was to determine whether the risk assessment instrument used by the Coconino County Pretrial Services is a valid predictor of the likelihood of a defendant on pretrial release failing to appear in court or being rearrested on a new charge while the initial charge was pending. The findings indicate that the instrument is not efficient at predicting either form of pretrial misconduct. No correlation was found between most of the variables included in the instrument and the outcomes of failure to appear or rearrest. Efforts to identify which variables were related using multivariate models proved untenable given problems with selection bias, resulting from the fact that only about half the defendants in the study sample were released during the pretrial period. When release rates are so low, it is not possible to identify the variation between low, medium, and high risk defendants. As a result of these selection bias problems, a new risk assessment instrument was constructed based upon research-based findings from other jurisdictions. Simulations run on the new instrument show that it is successful in sorting out Coconino County defendants by risk level. The simulations also show that no significant additional risk would be incurred by releasing defendants currently not released who resemble defendants who currently are released.

INTRODUCTION

Pretrial risk assessment instruments have been in existence for 50 years. For many years, these instruments were implemented in jurisdictions with simply the assumption that they were effective in sorting defendants into categories of risk of failure to appear (FTA) in court and rearrest on new charges. Generally, they were based upon intuition, not research. In more recent years, calls for evidence-based practices in a wide range of criminal justice endeavors has put pressure on pretrial services programs to establish, through good science, whether the tools they use to assess risks are valid, and, if not, to identify the factors that are.

The Coconino County Criminal Justice Coordinating Council identified as a high priority the validation of the risk assessment matrix used by the Coconino County Pretrial Services. The program has been using the existing risk assessment matrix for over a decade. The instrument takes into account two types of risk: danger to the community (rearrest for a new offense) and flight risk/failure to appear in court for the next hearing in the current case (FTA). The current risk assessment matrix takes over 30 factors into consideration.

This report presents the findings of an analysis of that instrument, testing to see if it is a valid measure of the risks posed by Coconino County pretrial defendants. The report is divided into several sections. The first describes the sample that was used to conduct the study. The second compares the characteristics of the Coconino County sample with defendants from other recent studies. The third section presents the analysis of the validity of the current Coconino County pretrial risk assessment study. The fourth presents a new, research-based risk assessment instrument for Coconino County Pretrial Services. The final section has some concluding thoughts.

THE SAMPLE

Sampling Method

PJI requested a list from the Coconino County pretrial services agency of all felony and misdemeanor defendants who had their first court appearance between February 9, 2009 and February 3, 2010. This time period was selected because it would allow about six months for the most recent cases – those filed in the first week of February 2010 – to reach final disposition before analysis would begin. Over 91% of the sampled cases reached final adjudication at the time that Pretrial Services submitted the final data base to PJI. This is more than adequate to ensure that we will not have findings tainted by censoring effects where some defendants have incomplete exposure to the treatment (i.e., the release).

Coconino County Pretrial Services supplied a list of 387 defendants to PJI. The list was comprised of the automated data collected in MS Excel by Pretrial Services during its regular screening process, plus additional variables on substance abuse and pretrial release outcomes that were agreed upon by PJI and Pretrial Services as supplements to the data. Upon receipt, PJI converted the MS Excel file to a Statistical Package for the Social Sciences (SPSS) datafile and a STATA datafile for analyses.

Descriptive Statistics

Table 1 shows the demographic characteristics of the sample. Nearly three-quarters of the defendants are over the age of 25. Over two-thirds have a GED or high school diploma, but no postsecondary education. The majority is employed at arrest. Approximately 20% are from out of state. Just over 10% are transients. The preponderance of defendants has resided in the same state for more than 5 years. Defendants tend not to be property owners, with the most likely form of ownership being a vehicle. Just fewer than three-quarters of defendants have a phone.

Table 1
Socio-Demographic Characteristics of Risk Assessment Validation Study Sample

Socio-Demographic Character	<u>istics of Risk Assessment V</u>	alidation Study Sample
	18)
Ayge		
20 or Younger	36	9.3
21 to 24	63	16.3
25 to 35	143	. 37.0
More than 35	144	37.3
lEdhirzinicozi		
Non High School Graduate	90	23.4
High School or GED	256	66.5
College AA or Partial College	28	7.3
Four Year College Degree	11	2.9
ingilemment		
6 Mo. at Same Job	111	28.8
Less than 6 Mo.	114	29.5
Unemployed	161	41.7
Residental Sicility		
1 Address Past 12 Mo.	180	46.8
2 or more Addresses Past 12 Mo.	124	32.2
No AZ Address	81	21.0
Lining Arrangamanis		
Lives with Family Past 12 Mo.	73	18.9
Other Living Arrangement	271	70.2
Transient	42	10.9
Threin Geographical Area		
Less than 3 Years	48	12.4
3 to 5 Years	24	6.2
5 to 20 Years	79	20.4
20 Years or More	236	61.0
Property Ounsership (Only Tyes"	Responses Timen)	
Owns or is buying home/business	47	12.1
(Danger Scale)		
Owns or is buying home/business	54	14.0
(Flight Scale)		
Owns Vehicle	140	36.2
Has Access to Vehicle	147	38.0
Phone Access		
Phone in Defendant's Name	209	54.0
Pay-Per-Use Mobile	73	18.9
No Phone	105	27.1

Table 2 details the offense characteristics that brought the defendant before the court. No defendants were currently under arrest for a class 1 felony, and the largest fraction of defendants (27.6%) had only a misdemeanor current arrest. Over three-quarters of defendants had no more than three charges in their current arrest. A quarter of defendants had a current arrest where drugs were involved, just over 10% where weapons were involved, and about a third where violence was involved. Approximately one out of every five defendants had a current charge that was a warrant.

Table 2
Current Offense Characteristics

i e		istics
	$\bar{\gamma} \bar{q}$	$\mathscr{L}_{\mathbb{Q}}$
Minst Senious Change		
Class 1 Felony	0	0
Class 2 Felony	83	21.4
Class 3 Felony	43	11.1
Class 4 Felony	63	16.3
Class 5 Felony	41	10.6
Class 6 Felony	49	12.7
Misdemeanor	107	27.6
Remarks of Charge Counts		
1	111	28.8
2	111	28.8
3	68	17.6
4	46	11.9
5 or More	50	13.0
Diendendiese in 1911		
Yes	98	25.3
No	289	74.7
Drug Sake		
Yes	64	16.5
No	323	83.5
Wexpon Bowolked		
Yes	43	11.1
No	344	88.9
Wakeni Crime		
Yes	12 1	31.3
No	266	68.7
Whenen boginned		
Yes	50	12.9
No	337	87.1
Concert Change is a Wangant		
Yes	81	20.9
No	306	79.1

Table 3 shows the prior criminal history of the sample. The vast majority of defendants have no prior prison time. On the other hand, nearly 4 out of 5 defendants have a prior misdemeanor and 2 out of every 5 defendants have a prior felony. Roughly half of the defendants have a prior failure to appear. Just less than two-thirds of defendants have a prior failure to comply.

Table 3
Prior Criminal History

	Prior Criminal History	•
·	N	%.
Prefere Pictorius (Theraxe		
Yes	85	22.0
No	302	78.0
Prior Mikakemeenaa ülkarees		
None	82	21.1
0-3 Nonviolent	79	20.4
Misdemeanor or 1 Violent		
4-10 Nonviolent	91	23.5
Misdemeanor or 2 Violent		
Over 10 Misdemeanors	135	34.9
Poter Felony Changes	and the state of t	
None	152	39.3
1-3 Felony Charges	94	24.3
4-10 Felony Charges	75	19.4
Over 10 Felony Charges	66	17.1
Prim Pailing to Appear		
Yes	184	47.5
No	203	52.5
Prior Failure to Comply		
Yes	137	64.6
No	250	35.4
		

Table 4 depicts the current involvement of Coconino County defendants with the criminal justice system. Most defendants have only limited involvement with the criminal justice system. But 36% had a pending case when arrested for the instant charge. Thus, over a third are already exhibiting signs of risks defendants, because they come into the study by being active pretrial rearrests.

Table 4
Current Involvement with the Criminal Justice System

- Cuitche Miv	orvenient with the trininar ju	Stice bystem
	N	19/4
(Ox. Production or Parelle at A	avent	
Yes	46	11.9
No .	341	88.1
Pending Case at Ament		
Yes	140	36.2
No	237	63.8
Avanne WennemitettAvnnemi		
Yes	56	14.5
No	331	85.5
Tunned Salibolo Amesi		
Yes	5	1.3
No	382	98.7

Table 5 describes the prevalence of substance abuse among Coconino County pretrial defendants. Just under half of defendants reported using alcohol. About one in ten defendants reported using drugs. About one in five defendants said that they have been previously treated for substance abuse.

Table 5
Alcohol/ Drug Treatment

		THE PARTY OF THE PROPERTY OF THE PARTY OF TH
i .	No.	1.76
Concently Uses Alached		
Yes	207	46.5
No	180	53. 5
(Connectity Wass Dings		
Yes	44	11.4
No	343	88.6
Ever Been Treated for Subst	ence Alberse	
Yes	83	21.4
No	304	78.6

Table 6 depicts the assessments made by the current Coconino County risk assessment matrix. Before discussing the data in the table, however, some discussion about the matrix is needed. The matrix score is not a simple summation of the flight risk and dangerousness risk score. Rather, the total risk score is a location on a matrix grid of two dimensions: flight risk in the vertical and dangerousness in the horizontal. The matrix ranges from

cells/points 1 to 400, with cell 1 having a 0,0 set of flight and dangerousness scores and cell 400 having a 19, 19 set of flight and dangerousness scores. The matrix treats the values for each element of risk in the same manner, with the boundaries for each risk recommendation category forming a diagonal through the matrix.

			R	I	S	K		0	F		·R	E	A	R	R	Е	S	T		٠	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
.	0	1	3	6	10	15	21	28	36	45	55	66	78	91	105	120	136	153	171	190	
R	1	2	5	9	14	20	27	35	44	54	65	77	1901	104	119	135	152	170	189	40.3	757×\$
ı	2	4	8	13	19	26	34	43	53	64	76	89	103	118	134	151	169	188	.av.jo≨-	2743:	2457
s	3	7	12	18	25	33	42	52	63	75	88	102	117	133	150	168	187	.,ú ::	3,027	2/16	7256
ĸ	4	11	17	24	32	41	51	62	74	87	101	116	132	149	167	186	: ::1)/3	32-4¢.	24.5	2(3)	<i>2</i> 3300
	5.	16	23	31	40	50	61	73	濒僻					166	· ·						
0	6	22	30	39	49	60	772	85	99	114	130	147	165	184	4036	2226	2/00	201	276	ZQ);	3(19)
F	7	29	38	48	59·	易	84	98	113	129	146	164	183	14(6.3)	2027)	32:52	Z13(0)	2177	Kiki	306	122
	8	37	47	58	70	83	97	112	128	145	163	182	ina.	2522	22/201	25.9	276	233902	\$1007	.48241	3:348
F	9	46	57	69	82		100						DA A	2240)	250	276	ZO1	ac	\$(540)	330	345
L	10	56	68	81	95	1110	126	143	161	180	Ze(j)	2/2(0)	<i>1</i> 3(0)	25.7/	27/41	200	3(US)	5919	3692	34143	355
ı[11	67.	80	94	109	125	142	160	179	ilasi.	25F1)	233	2150	27%	28.0)	304	હેરાફ્ડો	333	3/433	: :3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3(64)
G	12	79	93	108	1223	141	159	178	i in the second	2016B	237	255	27.72	2816	30%	38107/	330	TM92	\$\f\dag{3}	165	3,772
н	13	92	107	123	140	158	177	1/19	2517	Z.R8	DEC.	27ir	7.687/	3(19)	306	352(3)	38/£11	3,522	362	30711	379
т	14	106	122	139	157	176	1:15(3)	£15(6)	745	2253	217(i)	2916	Rei	: :35:45,	492AE	38.00	251	Kúi.	\$7(i)	:070	305
	15	121	138	156	175	14 (M)	MIS	77;Y.)	2,52	260	2376	3(11)	કેનો (કે કેનો (કે	3927	369	350	3(60)	370	3177	343%	3(E)(E)
	16		•		46741		2361	วเก	ંગલ :	26Y	9230)	(S ₁ (2)	3978	333	3/10	3150)	રહા	3076	3(35)	33:0)	\$ 0 /3;
Ì	17	154		193	25183	22:01	250	2007)	2433	2299	3102	:245	3(57)	:74970	356	367	375	3192	383	aes	397/
ı	18	172		2)(12)	22301	99/1GI	266	7(39)	2017	สกก	307/1	3376	T (197	3477	366	:7743	330	11:17/	39.92	(1 <u>1)</u> (6)	300
İ	19	191	Dîbîi	2:10	200	265	72:31	996	វិម័(ប	(P)2(1)	રકાર્ય	ริศาล	356	જ્યું ક	37723	3330	an	TOU	(G)5	w.	⁄10(0)

Legend:		
	No Fill =	
	ROR	
	Yellow Fill =	
	LEVEL 1	





¹ Nearly 36% of defendants exceeded the matrix range cap of 400 and were assigned a score of "500" to denote that their total risk level was so high that they "went off the grid." That over a third of defendants went off the grid is not surprising when one realizes that the grid has rather low caps (19 out of 155) on the highest point value expected for each element of risk.

Level 5-Blue Fill defendants are of special interest as these defendants technically are to have to "no release recommendation made due to high risk." As can be seen in the total risk section of Table 6, 54% of defendants fall into this "no release recommendation" category. This leads one to ask, what element of risk is driving the "no recommendation made due to high risk" assessments? The answer is the dangerousness risk element of the current risk matrix. The potential scores for both the flight risk and the dangerousness risk vary between -6 and 150². However, we see that pretrial defendants are much more likely to score higher on the dangerousness risk element at every level of the total risk score.

Another way to express this is to compute a summative total risk measure and compute the fraction of the total risk contributed by each of the two separate elements of risk. While the summative score is not identical to the matrix score, it behaves similarly³ and can serve as a good way to demonstrate the magnitude of the contribution of each element of risk to the matrix derived total risk score. As table 6 shows, on average, two-thirds of the summative version total risk is driven by dangerousness. Moreover, the lower the summative total risk, the more it is driven by the dangerousness element. This suggests that what the current Coconino County risk assessment is designed to measure is not failure to appear, but rearrest.

Given the extensive criminal histories and the predominance of felony defendants in the sample, a typical dangerousness risk assessment would not recommend for release many defendants. This is what we see in the results from Coconino County's total risk assessment. It is worth noting that there is a distinct break in both the flight risk and the dangerousness risk scores between defendants who were classified as fit candidates for non-financial release and those for whom the pretrial risk assessment dictates not issuing a recommendation due to these defendants' high level of risk. This suggests that the current risk assessment has discriminant validity - the ability to distinguish between various categories of interest to the analyst/risk assessor.

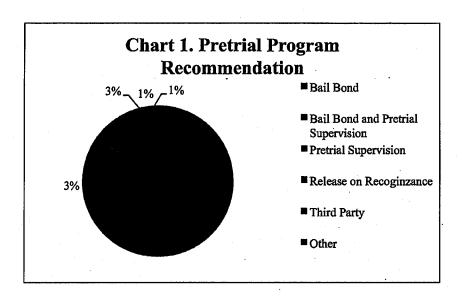
² The maximum score for flight risk is 152 and the maximum score for dangerousness risk is 150.

³ The two total risk scores are correlated at .787 overall, and when one looks at the cases that are not artificially capped with "500" in the matrix total risk score, they are correlated at .984. The maximum correlation possible is 1. Either way one analyzes the relationship, the two total risk scores are statistically significantly correlated - that is, they would be correlated in 95 or more samples of Coconino County defendants out of 100 randomly drawn samples.

Table 6
Pretrial Release Risk Assessment Scores

Pretrial Release Risk Ass	essment Scores	
	93	16
Taleb Risk (lilight & Dengenousees Condined)		
Release on Recognizance-No Fill (1-45 points)	61	15.8
Level 1-Yellow Fill (46-62 points)	18	4.7
Level 2-Orange Fill (63-120 points)	45	11.3
Level 3-Green Fill (121-193 points)	43	11.1
Level 4-Pink Fill (194-210 points)	11	2.8
Level 5-Blue Fill (211 to 400 points)	209	54.0
	Micara	Meddiate
High Rask		
Release on Recognizance-No Fill (1-45 points)	1.49	0.0
Level 1-Yellow Fill (46-62 points)	2.28	2.0
Level 2-Orange Fill (63-120 points)	3.38	2.0
Level 3-Green Fill (121-193 points)	5.26	6.0
Level 4-Pink Fill (194-210 points)	8.09	9.0
Level 5-Blue Fill (211 to 400 points)	15.73	10.0
All Levels	10.04	6.0
	Mean	Mediam
Dengerousness Risk		
Release on Recognizance-No Fill (1-45 points)	3.43	4.0
Level 1-Yellow Fill (46-62 points)	6.72	6.5
Level 2-Orange Fill (63-120 points)	8.40	8.0
Level 3-Green Fill (121-193 points)	11.21	11.0
Level 4-Pink Fill (194-210 points)	10.91	10.0
Level 5-Blue Fill (211 to 400 points)	21.44	19.0
All Levels	14.96	13.0
. Menn Pencentage hom Earth Companient of	ร์) สโรเรีย	Den Genoraneza
Risk		
Release on Recognizance-No Fill (1-45 points)	28.81	71.19
Level 1-Yellow Fill (46-62 points)	24.57	75.43
Level 2-Orange Fill (63-120 points)	27.99	72.01
		C= 0.4
Level 3-Green Fill (121-193 points)	32.09	67.91
Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points)	32.09 42.58	67.91 57.42
		

As we will see in Charts 1 and 2, the risk assessment classification is not identical to the pretrial program's recommendation. Chart 1 indicates that nearly three-quarters of defendants were recommended as candidates for financial release. The next largest group was recommended for pretrial supervision.



Like most pretrial programs across the nation, Coconino County's risk assessment scale does not have a "no release" category for defendants for whom no conditions or combination of conditions can reasonably assure community safety or appearance in court. Without such a category, it is not unreasonable to expect that the pretrial program will choose to recommend a form of financial release as an alternative to not issuing any recommendation at all for high-risk defendants. As we will see in Chart 2, the pretrial program does exactly that.

Chart 2 shows the risk assessment categorization by the recommendation made by the pretrial program. For every level of the risk assessment, the predominant recommendation was financial release (bail bond). If the pretrial program were making recommendations strictly according to the risk assessment, the financial release category would have the form of an inverted stair, taking an ever smaller fraction of each risk assessment categorization as one progresses from the highest risk to the lowest level of risk. We see a very weak form of this in Chart 2. This shows that the pretrial program was taking additional considerations into account beyond the risk assessment score.

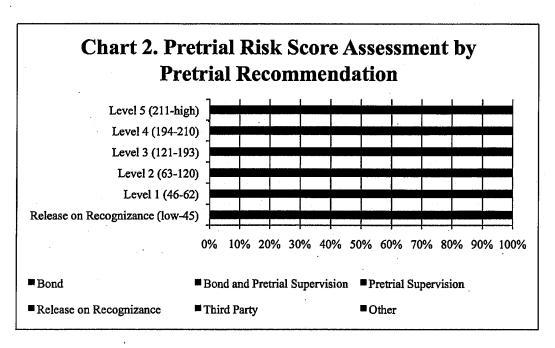


Chart 3 shows the release status of defendants. As the chart shows, almost half the defendants (47%) did not obtain release of any kind – financial or non-financial – during the pretrial period.

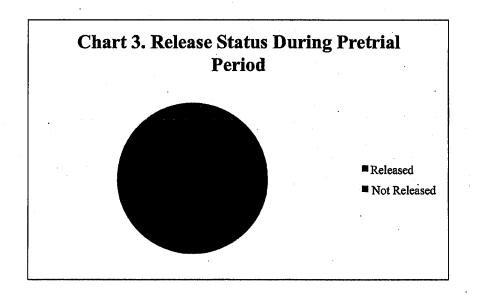


Chart 4 depicts the type of pretrial release for those defendants who were released. Nearly equal amounts of released pretrial defendants were released on recognizance and pretrial

supervision (38% vs. 39%), while only 19% of released pretrial defendants were released on bail bond.

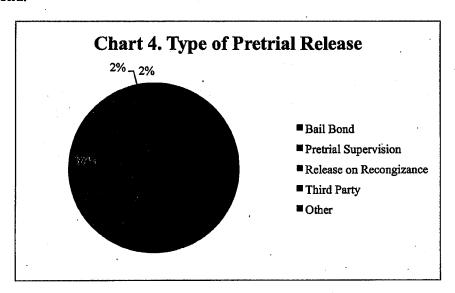


Chart 5 shows how the risk assessment classification and the release status/type compare. Release status and type do follow similar patterns to the risk classification. The highest risk defendants are the least likely to be released and the least likely to be put on release on recognizance. The lowest risk defendants are the defendants most likely to be put on release on recognizance and the least likely to be held without pretrial release. What is problematic is the distribution of release on recognizance and pretrial supervision for "mid-level" (levels 1-4) defendants. If the risk assessment was being strictly implemented, we would see that Level 4 defendants would be more likely than Levels 3, 2, and 1 defendants to be placed on pretrial supervision and less likely to be placed on release on recognizance. The exact opposite of this is occurring.

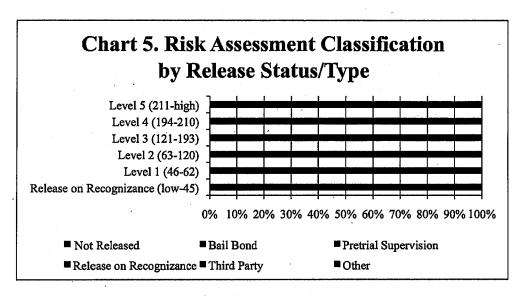


Chart 6 shows how often the pretrial program's recommendation was at variance with the release status of the defendant. Over half of the time when a financial release was recommended, the final release status was a non-release. Eleven percent of those recommended for financial release were placed on financial release. In fact, defendants recommended for financial release were more likely to be placed on pretrial supervision (17%) than financial release.

Defendants recommended for pretrial supervision were just slightly more likely to be placed on pretrial supervision (35%) than they were to be placed on release on recognizance (27%) or not released (27%). Nearly 10% of those recommended for release on recognizance were not released and nearly 20% were placed on pretrial supervision.

We cannot know from the data what precisely the court's decision was, as we are unable to distinguish between a non-release due to inability to make bail versus the court's decision to not release a defendant under any conditions. But we can draw some clear conclusions. Chart 6 shows substantial variation between the court's use of pretrial supervision and the pretrial program's recommendation. Chart 6 also suggests that the courts are not taking the pretrial programs request that a defendant not be placed on financial release as dispositive.

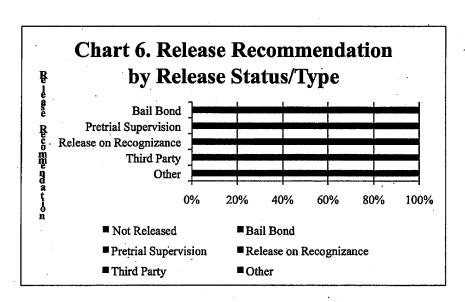


Table 7 indicates that overall, there were low levels of failure to appear (10.7%), rearrest (13.7%) or a composite failure for either type of failure (20.5%).

Table 7
Conduct on Pretrial Release

	[N]	9∕6.
Dolondant Falled to Appear		
Yes	22	10.7
No	183	89.3
Defendant was Rearresited		
Yes	28	13.7
No	177	86.3
Yes	42	20.5
No	162	79.5

COMPARISON OF THESE FINDINGS WITH DATA FROM OTHER JURISDICTIONS

Previous reviews of the state of the art in pretrial risk assessments (VanNostrand 2007) have decried the tendency to treat each jurisdiction de novo, as if no useful information can be gleaned by comparing defendants in the immediate study to defendants in other studies. In point of fact, comparisons can serve an extremely useful purpose: to determine if the defendants in the current study systematically differ from defendants in other studies which would make them less likely to be predictable according to currently known predictive factors of pretrial misconduct. To this end, this section presents a comparative review of defendants in this sample to defendants in other recent studies, including a review of felony defendants in the nation's 75 largest urban counties and several major pretrial risk assessment validation studies conducted over the last decade for the state of Virginia (2003 & 2009), Hennepin, MN (2006), Maricopa, AZ (1999), New York City, NY (2003) and Allegheny, PA (2008).

A word of caution is necessary before proceeding with the comparisons. Unlike many of the jurisdictions where other risk assessment validation studies have been recently conducted, the Coconino County program targets all felonies, but only selected misdemeanors, such as DV and DUI cases. The program does not deal with most misdemeanors. This makes it distinct from the other jurisdictions such as Allegheny, PA, Hennepin, MN, and New York City, NY where the pretrial program reviews virtually all felony defendants and misdemeanants they can within staffing constraints. The state of Virginia's system takes this approach to a slightly narrower target population by stating that it is charged to conduct reviews for all defendants who are not charged with an offense punishable by death are reviewed for consideration for pretrial release. As a result, we should expect that our comparisons would reveal that the defendants reviewed in Coconino County would be more likely to be charged with felonies than defendants reviewed in other jurisdictions. This is not indicative that Coconino defendants are charged with more severe offenses, but only reflective of the Coconino County pretrial program's decision not to limit its target population.

Age

Coconino County pretrial defendants are sociodemographically similar in many respects to local pretrial defendants nationwide. Thirty-eight percent of felony defendants in the State Court Processing Statistics review of the nations' 75 largest counties are age 35 and older, while in Coconino County 37.3% of defendants are age 35 and older. However, Coconino County defendants are more likely to be between 25 and 35 than the local felony pretrial defendants in the nation's 75 largest counties (37% vs. 29%).

Education and Employment

Coconino County defendants share in common with VA and Allegheny, PA pretrial defendants that most completed high school, although over 60% of Coconino County defendants completed their high school or GED degree, making them slightly more educated than their counterparts in VA and Allegheny, PA. Similar to VA defendants,

Hennepin, MN defendants and New York City (NYC) defendants, around 40% of Coconino County defendants were unemployed (41.7% versus 36% in VA, 39% in Hennepin, MN, and 53% NYC). Coconino County defendants are slightly more likely to be transient than VA defendants (10.9% vs. 5%).

Community Ties

Coconino County defendants are much less likely than NYC or Allegheny, PA defendants to live with family (18.9% Coconino County, 60% NYC, and 47% Allegheny, PA). Unlike any other study's defendants, over 60% of Coconino County defendants were most likely to be residents of the same geographical area for over 20 years, an unusually long time. In VA the median time for defendants living in the same area is 15 years and in Allegheny, PA only 56% were country residents for more than 5 years. This may be a definitional matter though. Coconino defines "living in the same geographical area" as continuous residency in the same state. No other jurisdiction does this.

Property Ownership/Access

Almost identical to the 12% Allegheny, PA pretrial defendants who owned a home, 12.1 to 14.% of Coconino County pretrial defendants owned a home or business. Identical to VA pretrial defendants, 38% of Coconino County pretrial defendants had access to a vehicle. Like VA and NYC pretrial defendants, over 70% of Coconino County pretrial defendants had a phone (72.9% Coconino County, 76% VA, 74% NYC).

Given the similarities of Coconino County pretrial defendants to those in recent studies in that shaped the state-of-the-art in pretrial risk assessment scales during the last decade, we can reasonably expect to find that similar less complicated risk assessment instruments developed for those jurisdictions should be able to provide substantial leverage in predicting risk of flight and danger to the community in Coconino County.

Current Charge

While we saw that Coconino County defendants in this study are sociodemographically similar to defendants in other pretrial risk assessment studies, they are not similar to defendants in other studies in the nature of the severity of the current offense. This is to be expected, as it reflects the decision of Coconino County's pretrial program not to review (include in this study) a large segment of their misdemeanor defendant population. Overall, Coconino County defendants are appearing before the court on more serious charges than defendants in other studies. Unlike many jurisdictions, more than two-thirds of Coconino County defendants being considered for pretrial release have a felony as their most serious charge. For example, in VA, Hennepin, MN and in Allegheny, PA, only 34% to 36% of defendants were charged with a felony. In NYC, 52% of defendants were charged with a felony. This makes the average Coconino County defendant unusually risky by most pretrial standards.

Similarly, most of the recent risk assessment studies have been conducted in jurisdictions with a majority or a plurality of defendants with one charge and generally less than 10% with more than four charges. Over two-thirds of Coconino County defendants had more than one charge, and 13% had more than four charges. In Allegheny, PA 40% of pretrial defendants had one charge and in VA 68% of pretrial defendants had one charge. In Coconino County, only 28.8% of pretrial defendants had one charge.

The involvement of drugs in the current offense seems slightly lower than many other studies. In Allegheny, PA and NYC the defendant's most serious charge was a drug charge around a quarter of the time (27% Allegheny, PA and 22% NYC). On its face, this seems similar to Coconino County's 25.3% of defendants with drugs involved. However, that drugs are involved in an offense is a much broader definition of a drug crime than was utilized in the Allegheny, PA and NYC studies. Moreover, the Maricopa, AZ study had 39% of defendants with a drug charge.

Another indication of the greater severity of Coconino County defendants is the presence of a weapon. The 11.1% seen in Coconino County is 11 times the .3% seen in the Maricopa, AZ study, and nearly a third greater than the fraction of defendants in the Allegheny, PA study. However, it was similar to the 11.2% seen in Hennepin, MN.

Coconino County pretrial defendants are more likely to be in court for a violent crime than defendants in Allegheny, PA (12%) and VA (23%), but about as likely as NYC pretrial defendants (between 32 and 36%). Most crucially, Coconino County pretrial defendants were nearly twice as likely as Maricopa, AZ pretrial defendants (16% vs. 31.3%) to be charged for a violent crime.

Prior Criminal History

Coconino County defendants tend to have more serious prior criminal histories than defendants in other studies. Coconino County pretrial defendants are more likely than defendants in other studies to have a prior felony. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 31% or less of defendants had a prior felony, in Coconino County over 60% of pretrial defendants had a prior felony. Coconino County pretrial defendants are more likely than defendants in other studies to have a prior misdemeanor. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 69% or less of defendants had a prior misdemeanor, in Coconino County over 79% of pretrial defendants had a prior misdemeanor.

Prior Failure to Appear

Coconino County pretrial defendants are more likely than defendants in other studies to have a prior FTA. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 31% or less of defendants had a prior FTA, in Coconino County over 47% of pretrial defendants had a prior FTA.

Current Involvement with the Criminal Justice System

Compared to other studies, Coconino County defendants are slightly more likely to have a current involvement with the criminal justice system at arrest. Almost 15% of Coconino County defendants had an active warrant, a higher rate than any other study (Allegheny, PA 2%, NYC 7%, and VA 5%). In Coconino County, 36% of defendants had a pending case at arrest, a higher rate than any other study (NYC 22% and VA 23%). However Coconino County defendants were less likely to be on probation or parole than defendants in Allegheny, PA (12% versus at least 15%).

Substance Abuse

Coconino County defendants are somewhat different than defendants in other studies with regard to substance abuse. Compared to VA pretrial defendants, Coconino County pretrial defendants are more likely to report being alcohol abusers (46.5% vs. 23%) and less likely to report being drug abusers (11.4% vs. 22%). Coconino County pretrial defendants were about as likely to be treated for substance abuse as Allegheny, PA pretrial defendants, but much more likely than VA pretrial defendants. This variation may be as much, if not more, due to local availability of treatment than any intrinsic characteristic of a pretrial defendant and any conclusions drawn should be viewed in such a light.

Pretrial Release Rates

Coconino County releases just over half of its defendants. Most comparable risk assessment studies show much higher release rates. Hennepin, MN released approximately 64% of defendants, VA released 84%, and in Allegheny, PA and NYC, over 90% of defendants were released pretrial. Coconino County's release rate is also lower than the release rate for felony defendants in large urban counties.

Pretrial Misconduct

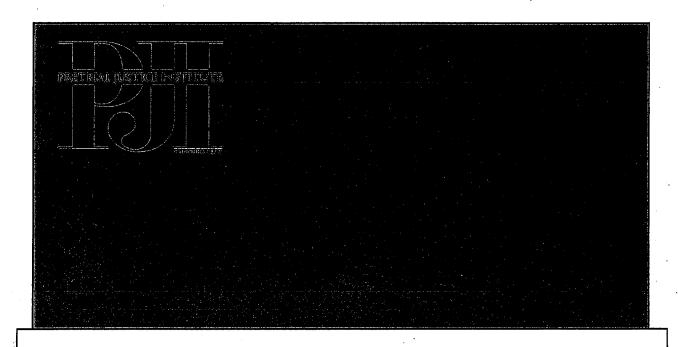
Despite the higher prevalence of known risk factors in the Coconino County's pretrial defendants, we find that Coconino County defendants are slightly less likely to engage in pretrial misconduct than defendants in other studies. Coconino County's "failure rates" – failure to appear (11%), rearrest (14%), and either form of pretrial misconduct (21%) – are slightly lower than the numbers shown for the nation's large urban counties for felony defendants on pretrial release (18%, 18% and 33%, respectively). In fact, they are substantially lower than the known comparable numbers from other risk assessment studies cited. NYC study's failure to appear rate is approximately 16%, and the Allegheny, PA study's failure to appear rate is 22% and rearrest rate is 17%.

Overall, the comparative analysis indicates that Coconino County defendants are:

- Demographically similar to pretrial defendants in many other places around the nation;
- More likely to be charged with a serious offense (felony, violent, in connection with a weapon) than pretrial defendants in other places, which is a reflection of the

pretrial program's decision not to review several types of misdemeanants for pretrial release;

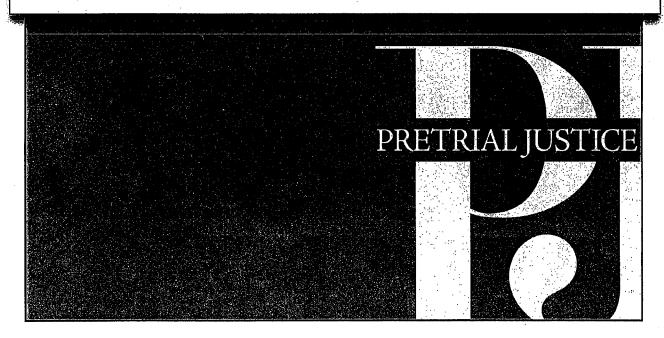
- More likely to have serious criminal histories involving felonies and failure to appear than pretrial defendants in other places;
- More likely to have an active criminal justice status at arrest than pretrial defendants in other places;
- Less likely to be released than pretrial defendants in many other places;
- Yet have similar rates of pretrial failure as compared to pretrial defendants in other places nationwide.



VALIDATION OF THE COCONINO COUNTY PRETRIAL RISK ASSESSMENT TOOL

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ABSTRACT

The goal of this analysis was to determine whether the risk assessment instrument used by the Coconino County Pretrial Services is a valid predictor of the likelihood of a defendant on pretrial release failing to appear in court or being rearrested on a new charge while the initial charge was pending. The findings indicate that the instrument is not efficient at predicting either form of pretrial misconduct. No correlation was found between most of the variables included in the instrument and the outcomes of failure to appear or rearrest. Efforts to identify which variables were related using multivariate models proved untenable given problems with selection bias, resulting from the fact that only about half the defendants in the study sample were released during the pretrial period. When release rates are so low, it is not possible to identify the variation between low, medium, and high risk defendants. As a result of these selection bias problems, a new risk assessment instrument was constructed based upon research-based findings from other jurisdictions. Simulations run on the new instrument show that it is successful in sorting out Coconino County defendants by risk level. The simulations also show that no significant additional risk would be incurred by releasing defendants currently not released who resemble defendants who currently are released.

INTRODUCTION

Pretrial risk assessment instruments have been in existence for 50 years. For many years, these instruments were implemented in jurisdictions with simply the assumption that they were effective in sorting defendants into categories of risk of failure to appear (FTA) in court and rearrest on new charges. Generally, they were based upon intuition, not research. In more recent years, calls for evidence-based practices in a wide range of criminal justice endeavors has put pressure on pretrial services programs to establish, through good science, whether the tools they use to assess risks are valid, and, if not, to identify the factors that are.

The Coconino County Criminal Justice Coordinating Council identified as a high priority the validation of the risk assessment matrix used by the Coconino County Pretrial Services. The program has been using the existing risk assessment matrix for over a decade. The instrument takes into account two types of risk: danger to the community (rearrest for a new offense) and flight risk/failure to appear in court for the next hearing in the current case (FTA). The current risk assessment matrix takes over 30 factors into consideration.

This report presents the findings of an analysis of that instrument, testing to see if it is a valid measure of the risks posed by Coconino County pretrial defendants. The report is divided into several sections. The first describes the sample that was used to conduct the study. The second compares the characteristics of the Coconino County sample with defendants from other recent studies. The third section presents the analysis of the validity of the current Coconino County pretrial risk assessment study. The fourth presents a new, research-based risk assessment instrument for Coconino County Pretrial Services. The final section has some concluding thoughts.

THE SAMPLE

Sampling Method

PJI requested a list from the Coconino County pretrial services agency of all felony and misdemeanor defendants who had their first court appearance between February 9, 2009 and February 3, 2010. This time period was selected because it would allow about six months for the most recent cases – those filed in the first week of February 2010 – to reach final disposition before analysis would begin. Over 91% of the sampled cases reached final adjudication at the time that Pretrial Services submitted the final data base to PJI. This is more than adequate to ensure that we will not have findings tainted by censoring effects where some defendants have incomplete exposure to the treatment (i.e., the release).

Coconino County Pretrial Services supplied a list of 387 defendants to PJI. The list was comprised of the automated data collected in MS Excel by Pretrial Services during its regular screening process, plus additional variables on substance abuse and pretrial release outcomes that were agreed upon by PJI and Pretrial Services as supplements to the data. Upon receipt, PJI converted the MS Excel file to a Statistical Package for the Social Sciences (SPSS) datafile and a STATA datafile for analyses.

Descriptive Statistics

Table 1 shows the demographic characteristics of the sample. Nearly three-quarters of the defendants are over the age of 25. Over two-thirds have a GED or high school diploma, but no postsecondary education. The majority is employed at arrest. Approximately 20% are from out of state. Just over 10% are transients. The preponderance of defendants has resided in the same state for more than 5 years. Defendants tend not to be property owners, with the most likely form of ownership being a vehicle. Just fewer than three-quarters of defendants have a phone.

Table 1
Socio-Demographic Characteristics of Risk Assessment Validation Study Sample

Socio-Demographic Characteris	tics of Risk Assessment Va	alidation Study Sample
	<u> </u>	· Wi
Ayne		
20 or Younger	36	9.3
21 to 24	63	16.3
25 to 35	143	37.0
More than 35	144	37.3
(Echarcanitan)		
Non High School Graduate	90	23.4
High School or GED	256	66.5
College AA or Partial College	28	7.3
Four Year College Degree	11	2.9
lempleynaent		
6 Mo. at Same Job	111	28.8
Less than 6 Mo.	114	29.5
Unemployed	161	41.7
Restriencell Stability		
1 Address Past 12 Mo.	180	. 46.8
2 or more Addresses Past 12 Mo.	124	32.2
No AZ Address	81	21.0
Lining Amengements		
Lives with Family Past 12 Mo.	73	18.9
Other Living Arrangement	271	70.2
Transient	42	10.9
Thing in Geographical Alica		
Less than 3 Years	48	12.4
3 to 5 Years	24	6.2
5 to 20 Years	79	20.4
20 Years or More	236	61.0
Proporty Omisership (Only "Yes" R	((તામાના કિલ્લા ક્લિકામાં કાર્યો	
Owns or is buying home/business	47	12.1
(Danger Scale)		•
Owns or is buying home/business	54	14.0
(Flight Scale)		
Owns Vehicle	140	36.2
Has Access to Vehicle	147	38.0
Phone Access	35. A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Phone in Defendant's Name	209	54.0
Pay-Per-Use Mobile	73	18.9
No Phone	105	27.1

Table 2 details the offense characteristics that brought the defendant before the court. No defendants were currently under arrest for a class 1 felony, and the largest fraction of defendants (27.6%) had only a misdemeanor current arrest. Over three-quarters of defendants had no more than three charges in their current arrest. A quarter of defendants had a current arrest where drugs were involved, just over 10% where weapons were involved, and about a third where violence was involved. Approximately one out of every five defendants had a current charge that was a warrant.

Table 2
Current Offense Characteristics

Class 1 Felony		Current Offense Characteris	tics
Class 1 Felony	N. C.	- A	Va.
Class 2 Felony	Most Senous Charge		
Class 3 Felony	Class 1 Felony	0	0
Class 4 Felony	Class 2 Felony	83	21.4
Class 5 Felony	Class 3 Felony	43	11.1
Class 6 Felony	Class 4 Felony	63	16.3
Misdemeanor 107 27.6		41	10.6
1	Class 6 Felony	49	12.7
1 111 28.8 2 111 28.8 3 68 17.6 4 46 11.9 5 or More 50 13.0 Dangs have wed Yes 98 25.3 No 289 74.7 Dangs Sale Yes 64 16.5 No 323 83.5 Westpoin linyalived Yes 43 11.1 No 344 88.9 Violant Crime Yes 121 31.3 No 266 68.7 Wichin linjured Yes 50 12.9 No 337 87.1 Current Change is a Warmant Yes 81 20.9	Misdemeanor	107	27.6
111	Number of Charge Cours		
3	1	111	28.8
4 46 11.9 5 or More 50 13.0 Drugs lincolved Yes 98 25.3 No 289 74.7 Drug Sala Yes 64 16.5 No 323 83.5 Weapon lincolved Yes 43 11.1 No 344 88.9 Wickent Crime Yes 121 31.3 No 266 68.7 Wickent Injuned Yes 50 12.9 No 337 87.1 Cumpant Charge is a Warmant Yes 81 20.9		111	28.8
Sor More		68	17.6
Person P	4	46	11.9
Yes 98 25.3 No 289 74.7 Drug Sale 44 16.5 Yes 64 16.5 No 323 83.5 Weappoin lineal Ved 43 11.1 No 344 88.9 Wollow Crame 121 31.3 No 266 68.7 Wights Injured 50 12.9 No 337 87.1 Current Charge is a Wantaut 79 Yes 81 20.9	5 or More	50	13.0
No	(Dirayses (bannes) byed)		
The property of the property	Yes	98	25.3
Yes 64 16.5 No 323 83.5 Weapon lingal ved 11.1 Yes 43 11.1 No 344 88.9 Violent Crime 266 68.7 No 266 68.7 Victorial regions 50 12.9 No 337 87.1 Current Charge is a Wantaux 20.9	No	289	74.7
No 323 83.5	Drug Sale		
Yes 43 11.1 No 344 88.9 Violent Crime 31.3 Yes 121 31.3 No 266 68.7 Victorial Influence 50 12.9 No 337 87.1 Current Change is a Wantant 81 20.9	Yes	64	16.5
Yes 43 11.1 No 344 88.9 Valent Crime 31.3 Yes 121 31.3 No 266 68.7 Victim Injuned 32.9 12.9 No 337 87.1 Current Charge is a Warrant 81 20.9	No	323	83.5
No 344 88.9 Victoria Crime Yes 121 31.3 No 266 68.7 Victoria Injured Yes 50 12.9 No 337 87.1 Current Charge is a Warrant Yes 81 20.9	WWestpoor linnocolkweed		
Yes 121 31.3 No 266 68.7 Vicinality med 50 12.9 No 337 87.1 Current Charge is a Warrant 81 20.9	Yes	43	11.1
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No 266 68.7 Wichin Diffused 50 12.9 Yes 50 12.9 No 337 87.1 Current Charge is a Wantant 20.9	Wakent Came		
Virginalinjamed. Yes 50 12.9 No 337 87.1 Current Change is a Wantant. 20.9	Yes	121 ·	31.3
Yes 50 12.9 No 337 87.1 Current Charge is a Warrant 20.9	No .	266	68.7
No 337 87.1 Current Charge is a Wantant 20.9	Wireichben ibnifinurerei		
No 337 87.1 Current Charge is a Wantant 81 20.9	Yes	50	12.9
Yes 81 20.9	No	337	87.1
	Content Charge is a Wester		
	Yes	81	20.9
NO 79.1	No	306	79.1

Table 3 shows the prior criminal history of the sample. The vast majority of defendants have no prior prison time. On the other hand, nearly 4 out of 5 defendants have a prior misdemeanor and 2 out of every 5 defendants have a prior felony. Roughly half of the defendants have a prior failure to appear. Just less than two-thirds of defendants have a prior failure to comply.

Table 3
Prior Criminal History

Prior Criminal History	
[K ²]	9/g;
85	22.0
302	78.0
82	21.1
79	20.4
·	
91	23.5
135	34.9
152	39.3
94	24.3
75	19.4
. 66	17.1
184	47.5
203	52.5
137	64.6
250	35.4
	85 302 82 79 91 135 152 94 75 66

Table 4 depicts the current involvement of Coconino County defendants with the criminal justice system. Most defendants have only limited involvement with the criminal justice system. But 36% had a pending case when arrested for the instant charge. Thus, over a third are already exhibiting signs of risks defendants, because they come into the study by being active pretrial rearrests.

Table 4
Current Involvement with the Criminal Justice System

Cullent mive	nvement with the triminal ju	Stice System
	<u> </u>	194
On Production on Perclicat A	pressi	
Yes	46	11.9
No	341	88.1
PenifiggCase at Amest		
Yes	140	36.2
No	237	63.8
Avative Warrentalt Avancet		
Yes	56	14.5
No	331	85.5
Tunaed Selfibaltor Amest		
Yes	5	1.3
No	382	98.7

Table 5 describes the prevalence of substance abuse among Coconino County pretrial defendants. Just under half of defendants reported using alcohol. About one in ten defendants reported using drugs. About one in five defendants said that they have been previously treated for substance abuse.

Table 5 Alcohol/ Drug Treatment

	Alcoholy Drug Treatment	
	i ji	126
- Convendy Wses Alladial		
Yes	207	46.5
No	180	53.5
l (Connected by Weses Dirayes		
Yes	44	11.4
No	343	88.6
Educe Breen Treated for Subst	ence Adrese	
Yes	83	21.4
No	304	78.6

Table 6 depicts the assessments made by the current Coconino County risk assessment matrix. Before discussing the data in the table, however, some discussion about the matrix is needed. The matrix score is not a simple summation of the flight risk and dangerousness risk score. Rather, the total risk score is a location on a matrix grid of two dimensions: flight risk in the vertical and dangerousness in the horizontal. The matrix ranges from

cells/points 1 to 400, with cell 1 having a 0,0 set of flight and dangerousness scores and cell 400 having a 19, 19 set of flight and dangerousness scores.¹ The matrix treats the values for each element of risk in the same manner, with the boundaries for each risk recommendation category forming a diagonal through the matrix.

			R	I	S	K	 	0	F	, <u>.</u> .	· R	E	A	R	R	E	S	T			
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	0	1	3	6	10	15	21	28	36	45	55	66	7787	91	105	120	136	153	171	190	
R	1	2	5	9	14	20	27	35	.44	54	65	77	90.	104	119	135	152	170	: 189	409	72.5
,	2	4	8	13	19	26	34	43	53	64	76	894	103	118	134	151	169	188	5/14	228:	34171
s	3	7	12	18	25	33	42	52	63	75	88	102	117	133	150	168	187	,,63	1,227	M/Ye	745h.
ĸ	4	11	17	24	32	41	51	62	74	87	101	116	132	149	167	186	:/51943	D. Lie	Zv. JS	203)	2300
	5.	16	23	31	40	50	61	73	70	100				166					2832		
أ	6	22	30	39	49	60	70	85	199	114	130	147	165	184	40°6	2729	2420	REGI	200	DQ);;	; () 1.9
F	7	29	38	48	59				XX			164					2/3(0)	227.77	208	343)48	1,00
	8	37	47	58	70.	333		7			·			22/22/2	22051	2.5(5)	276	533102	3017	3020	332
F	· 9	46	57.	1	82							Who							3000		12 (E
L	10			81		4.5				·					20.272.2	protection districts	a the should		3691		ಾಸ್ಕ ಪ್ರಕೃತಿ
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<u> </u>	12	100	199	108																	ace.
G			488	123															3GD		2.2
H	13								/311//	2.630	/20•42 20±20							33.92	312/2	.0516	3//2/
T	14	345		139			196	2110	(4:22) 3:55	(#Dir		23.10		35.5		33(11)	25711	(3)011	2//2/	.5501 <u>51</u>	31.35
ŀ	15			156			55115	2074	2452	24(52)	316	\$11I)	(د) ارد	327		3,338	315(1)	3153	557/7/	.111/25	355(1)
ŀ	16			174	1143.21	SAL	25.63	245) L	2468	24.14	3,4(1)	(12,14)	32,40	15191E	349	3453)	<u>्रक्ताः</u>	39765	31:55	6009)	5,9,6
ŀ	17		173	193	2/11/5]	12.101	250	14671	23(6)	2298)	\$9122	3245)	\$ (677	3/488	325(1)	3107	37/5	31.72	308	306	31977
ŀ	18	172	192	2012	2:51	(2/39)	300	2332	2057	ુકાત ક	32/4	\$ 6 X ft	YV	\$617/	300	\$17/43.	310	1107	33:12	39)6	309)
Ĺ	19	191	2011	230	246	265	湿到	295	300	S923	385	3/26	356	365	373	390	E00	7991	395	398	ADO:

1 ~	ann.	a.
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No Fill =	
ROR	
Yellow Fill =	
LEVEL 1	





¹ Nearly 36% of defendants exceeded the matrix range cap of 400 and were assigned a score of "500" to denote that their total risk level was so high that they "went off the grid." That over a third of defendants went off the grid is not surprising when one realizes that the grid has rather low caps (19 out of 155) on the highest point value expected for each element of risk.

Level 5-Blue Fill defendants are of special interest as these defendants technically are to have to "no release recommendation made due to high risk." As can be seen in the total risk section of Table 6, 54% of defendants fall into this "no release recommendation" category. This leads one to ask, what element of risk is driving the "no recommendation made due to high risk" assessments? The answer is the dangerousness risk element of the current risk matrix. The potential scores for both the flight risk and the dangerousness risk vary between -6 and 150². However, we see that pretrial defendants are much more likely to score higher on the dangerousness risk element at every level of the total risk score.

Another way to express this is to compute a summative total risk measure and compute the fraction of the total risk contributed by each of the two separate elements of risk. While the summative score is not identical to the matrix score, it behaves similarly³ and can serve as a good way to demonstrate the magnitude of the contribution of each element of risk to the matrix derived total risk score. As table 6 shows, on average, two-thirds of the summative version total risk is driven by dangerousness. Moreover, the lower the summative total risk, the more it is driven by the dangerousness element. This suggests that what the current Coconino County risk assessment is designed to measure is not failure to appear, but rearrest.

Given the extensive criminal histories and the predominance of felony defendants in the sample, a typical dangerousness risk assessment would not recommend for release many defendants. This is what we see in the results from Coconino County's total risk assessment. It is worth noting that there is a distinct break in both the flight risk and the dangerousness risk scores between defendants who were classified as fit candidates for non-financial release and those for whom the pretrial risk assessment dictates not issuing a recommendation due to these defendants' high level of risk. This suggests that the current risk assessment has discriminant validity - the ability to distinguish between various categories of interest to the analyst/risk assessor.

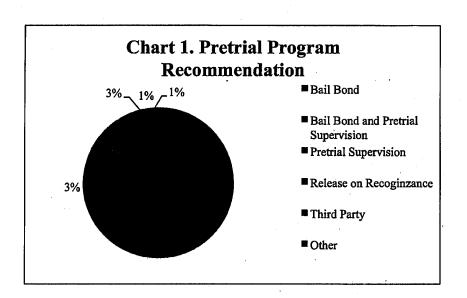
² The maximum score for flight risk is 152 and the maximum score for dangerousness risk is 150.

³ The two total risk scores are correlated at .787 overall, and when one looks at the cases that are not artificially capped with "500" in the matrix total risk score, they are correlated at .984. The maximum correlation possible is 1. Either way one analyzes the relationship, the two total risk scores are statistically significantly correlated - that is, they would be correlated in 95 or more samples of Coconino County defendants out of 100 randomly drawn samples.

Table 6
Pretrial Release Risk Assessment Scores

Release on Recognizance-No Fill (1-45 points) 61 15.8 Level 1-Yellow Fill (46-62 points) 18 4.7 Level 2-Orange Fill (63-120 points) 45 11.3 Level 3-Green Fill (121-193 points) 43 11.1 Level 4-Pink Fill (194-210 points) 11 2.8 Level 5-Blue Fill (211 to 400 points) 209 54.0 Release on Recognizance-No Fill (1-45 points) 1.49 0.0 Level 1-Yellow Fill (46-62 points) 2.28 2.0 Level 2-Orange Fill (63-120 points) 3.38 2.0 Level 3-Green Fill (121-193 points) 5.26 6.0 Level 4-Pink Fill (194-210 points) 8.09 9.0 Level 4-Pink Fill (211 to 400 points) 15.73 10.0 All Levels 110.04 6.0 Release on Recognizance-No Fill (1-45 points) 10.04 6.0 Release on Recognizance-No Fill (1-45 points) 10.91 10.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 3-Green Fill (211 to 400 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 11.496 13.0 Premioration Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 28.81 71.19 Level 2-Orange Fill (63-120 points) 28.81 71.19 Level 3-Green Fill (121-193 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (194-210 points) 32.09 67.91 Level 3-Green Fill (121-193 points) 37.29 62.71 All Levels 5-Blue Fill (211 to 400 points) 37.29 62.71 All Levels 5-Blue Fill (211 to 400 points) 37.29 62.71	Pretrial Release Risk Asse	essment Scores	
Release on Recognizance-No Fill (1-45 points) 18		įζ!	νή.
Level 1-Yellow Fill (46-62 points) 18	the construction of the co		
Level 2-Orange Fill (63-120 points)		61	15.8
Level 3-Green Fill (121-193 points)	Level 1-Yellow Fill (46-62 points)	18	4.7
Level 4-Pink Fill (194-210 points) 11 2.8	Level 2-Orange Fill (63-120 points)	45	11.3
Level 5-Blue Fill (211 to 400 points) 209 54.0	Level 3-Green Fill (121-193 points)	43	11.1
Right Risk Release on Recognizance-No Fill (1-45 points) 1.49 0.0 Level 1-Yellow Fill (46-62 points) 2.28 2.0 Level 2-Orange Fill (63-120 points) 3.38 2.0 Level 3-Green Fill (121-193 points) 5.26 6.0 Level 4-Pink Fill (194-210 points) 8.09 9.0 Level 5-Blue Fill (211 to 400 points) 15.73 10.0 All Levels 10.04 6.0 Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 27.99 72.01 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Level 4-Pink Fill (194-210 points)	. 11	2.8
Release on Recognizance-No Fill (1-45 points) 1.49 0.0	Level 5-Blue Fill (211 to 400 points)	209	54.0
Release on Recognizance-No Fill (1-45 points) 1.49 0.0	·	Mega	(Vikerelizelia)
Level 1-Yellow Fill (46-62 points) 2.28 2.0	lingi indak		
Level 2-Orange Fill (63-120 points) 3.38 2.0 Level 3-Green Fill (121-193 points) 5.26 6.0 Level 4-Pink Fill (194-210 points) 8.09 9.0 Level 5-Blue Fill (211 to 400 points) 15.73 10.0 All Levels 10.04 6.0 Medican Dangerous/ress Risk Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Leve	Release on Recognizance-No Fill (1-45 points)	1.49	0.0
Level 3-Green Fill (121-193 points) 5.26 6.0 Level 4-Pink Fill (194-210 points) 8.09 9.0 Level 5-Blue Fill (211 to 400 points) 15.73 10.0 All Levels 10.04 6.0 Marigenous Ress Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 Missis Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 37.29 62.71	Level 1-Yellow Fill (46-62 points)	2.28	2.0
Level 4-Pink Fill (194-210 points) 8.09 9.0 Level 5-Blue Fill (211 to 400 points) 15.73 10.0 All Levels 10.04 6.0 Median Dangeroussess Risk Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 21.44 19.0 All Levels 14.96 13.0 Mean Percentage from Each Composition 10.01 10.02 Level 1-Yellow Fill (46-62 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 37.29 62.71	Level 2-Orange Fill (63-120 points)	3.38	2.0
Level 5-Blue Fill (211 to 400 points) 15.73 10.0 All Levels 10.04 6.0 Maxim Maxim Maxim Dangerous ness Risk Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Maxim Paragentage from Each Companion of Right Dangerous incess Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Level 3-Green Fill (121-193 points)	5.26	6.0
All Levels	Level 4-Pink Fill (194-210 points)	8.09	9.0
New Part Par	Level 5-Blue Fill (211 to 400 points)	15.73	10.0
Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Mean Percentage from Each Component of Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	All Levels	10.04	6.0
Release on Recognizance-No Fill (1-45 points) 3.43 4.0 Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Meant Postconiago from Earth Competitori Filight Diagonassess Rask 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71			
Level 1-Yellow Fill (46-62 points) 6.72 6.5 Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Meant Porcestage from Earth Compensator Fig. 10 10.0 Risk 14.96 13.0 Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71		14(EE(0)	Meniten
Level 2-Orange Fill (63-120 points) 8.40 8.0 Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Mean Porcentage from Each Companion of Risk 10.0 10.0 Risk 21.44 19.0 Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Denggenoustess Risk	Mern	Median
Level 3-Green Fill (121-193 points) 11.21 11.0 Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Meant Percentage from Earth Component of Risk Design Assists Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71		3.43	4.0
Level 4-Pink Fill (194-210 points) 10.91 10.0 Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Meant Percentage from Earth Companion of Risk Dangerousiness Risk 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points)	3.43	4.0
Level 5-Blue Fill (211 to 400 points) 21.44 19.0 All Levels 14.96 13.0 Meant Percentage from Earth Component of Risk Public Dangerous ress Risk 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points)	3.43 6.72	4.0 6.5
All Levels 14.96 13.0 Meant Percentage from Earth Component of Risk Dangerousness Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points)	3.43 6.72 8.40	4.0 6.5 8.0
Mean Percentage from Earth Component of Risk Public Percentage from Earth Component of Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points)	3.43 6.72 8.40 11.21	4.0 6.5 8.0 11.0
Risk Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points)	3.43 6.72 8.40 11.21 10.91	4.0 6.5 8.0 11.0 10.0
Release on Recognizance-No Fill (1-45 points) 28.81 71.19 Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points)	3.43 6.72 8.40 11.21 10.91 21.44	4.0 6.5 8.0 11.0 10.0 19.0
Level 1-Yellow Fill (46-62 points) 24.57 75.43 Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels	3.43 6.72 8.40 11.21 10.91 21.44 14.96	4.0 6.5 8.0 11.0 10.0 19.0 13.0
Level 2-Orange Fill (63-120 points) 27.99 72.01 Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels	3.43 6.72 8.40 11.21 10.91 21.44 14.96	4.0 6.5 8.0 11.0 10.0 19.0 13.0
Level 3-Green Fill (121-193 points) 32.09 67.91 Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Mean Percentage from Earth Components (198) Rask	3.43 6.72 8.40 11.21 10.91 21.44 14.96	4.0 6.5 8.0 11.0 10.0 19.0 13.0
Level 4-Pink Fill (194-210 points) 42.58 57.42 Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Mean Porcontage from Each Component of Risk Release on Recognizance-No Fill (1-45 points)	3.43 6.72 8.40 11.21 10.91 21.44 14.96	4.0 6.5 8.0 11.0 10.0 19.0 13.0
Level 5-Blue Fill (211 to 400 points) 37.29 62.71	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Migrati Porceptage from Parch Component of Risk Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points)	3.43 6.72 8.40 11.21 10.91 21.44 14.96 00.00 28.81 24.57	4.0 6.5 8.0 11.0 10.0 19.0 13.0 000050000000000000000000000000000000
	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Mean Percentage from Parch Component of Risk Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points)	3.43 6.72 8.40 11.21 10.91 21.44 14.96 10.91 28.81 24.57 27.99	4.0 6.5 8.0 11.0 10.0 19.0 13.0 Dangerousiess 71.19 75.43 72.01
All Levels 33.85 66.15	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Mean Porconinge in an Early Companion of Risk Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points)	3.43 6.72 8.40 11.21 10.91 21.44 14.96 10.91 28.81 24.57 27.99 32.09	4.0 6.5 8.0 11.0 10.0 19.0 13.0 00000000000000000000000000000000
	Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points) Level 5-Blue Fill (211 to 400 points) All Levels Mean Poice Page from Pach Component of Risk Release on Recognizance-No Fill (1-45 points) Level 1-Yellow Fill (46-62 points) Level 2-Orange Fill (63-120 points) Level 3-Green Fill (121-193 points) Level 4-Pink Fill (194-210 points)	3.43 6.72 8.40 11.21 10.91 21.44 14.96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.0 6.5 8.0 11.0 10.0 19.0 13.0 Dangeroussess 71.19 75.43 72.01 67.91 57.42 62.71

As we will see in Charts 1 and 2, the risk assessment classification is not identical to the pretrial program's recommendation. Chart 1 indicates that nearly three-quarters of defendants were recommended as candidates for financial release. The next largest group was recommended for pretrial supervision.



Like most pretrial programs across the nation, Coconino County's risk assessment scale does not have a "no release" category for defendants for whom no conditions or combination of conditions can reasonably assure community safety or appearance in court. Without such a category, it is not unreasonable to expect that the pretrial program will choose to recommend a form of financial release as an alternative to not issuing any recommendation at all for high-risk defendants. As we will see in Chart 2, the pretrial program does exactly that.

Chart 2 shows the risk assessment categorization by the recommendation made by the pretrial program. For every level of the risk assessment, the predominant recommendation was financial release (bail bond). If the pretrial program were making recommendations strictly according to the risk assessment, the financial release category would have the form of an inverted stair, taking an ever smaller fraction of each risk assessment categorization as one progresses from the highest risk to the lowest level of risk. We see a very weak form of this in Chart 2. This shows that the pretrial program was taking additional considerations into account beyond the risk assessment score.

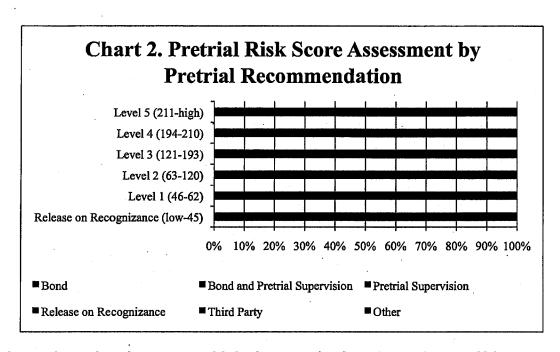


Chart 3 shows the release status of defendants. As the chart shows, almost half the defendants (47%) did not obtain release of any kind – financial or non-financial – during the pretrial period.

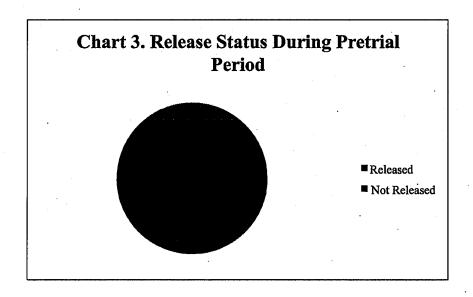


Chart 4 depicts the type of pretrial release for those defendants who were released. Nearly equal amounts of released pretrial defendants were released on recognizance and pretrial

supervision (38% vs. 39%), while only 19% of released pretrial defendants were released on bail bond.

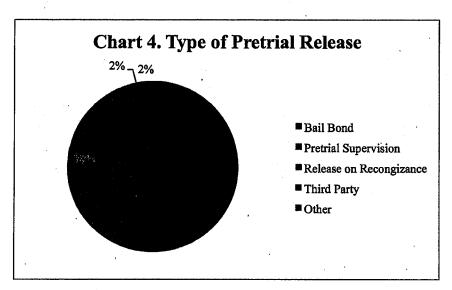


Chart 5 shows how the risk assessment classification and the release status/type compare. Release status and type do follow similar patterns to the risk classification. The highest risk defendants are the least likely to be released and the least likely to be put on recognizance. The lowest risk defendants are the defendants most likely to be put on release on recognizance and the least likely to be held without pretrial release. What is problematic is the distribution of release on recognizance and pretrial supervision for "mid-level" (levels 1-4) defendants. If the risk assessment was being strictly implemented, we would see that Level 4 defendants would be more likely than Levels 3, 2, and 1 defendants to be placed on pretrial supervision and less likely to be placed on release on recognizance. The exact opposite of this is occurring.

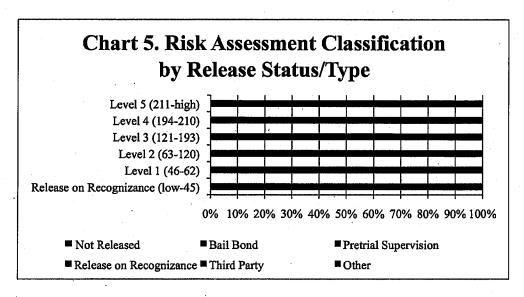


Chart 6 shows how often the pretrial program's recommendation was at variance with the release status of the defendant. Over half of the time when a financial release was recommended, the final release status was a non-release. Eleven percent of those recommended for financial release were placed on financial release. In fact, defendants recommended for financial release were more likely to be placed on pretrial supervision (17%) than financial release.

Defendants recommended for pretrial supervision were just slightly more likely to be placed on pretrial supervision (35%) than they were to be placed on release on recognizance (27%) or not released (27%). Nearly 10% of those recommended for release on recognizance were not released and nearly 20% were placed on pretrial supervision.

We cannot know from the data what precisely the court's decision was, as we are unable to distinguish between a non-release due to inability to make bail versus the court's decision to not release a defendant under any conditions. But we can draw some clear conclusions. Chart 6 shows substantial variation between the court's use of pretrial supervision and the pretrial program's recommendation. Chart 6 also suggests that the courts are not taking the pretrial programs request that a defendant not be placed on financial release as dispositive.

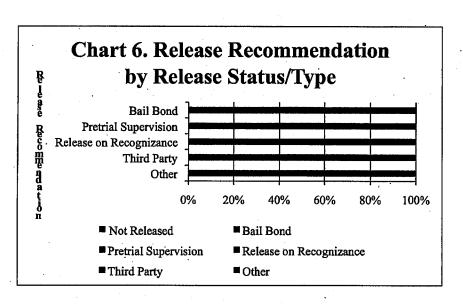


Table 7 indicates that overall, there were low levels of failure to appear (10.7%), rearrest (13.7%) or a composite failure for either type of failure (20.5%).

Table 7
Conduct on Pretrial Release

Conduct on 1 1 cti isi release						
	剧	2/6;				
Defendent Fested to Appear						
Yes	22	10.7				
No	183	89.3				
Defendant was Resinted						
Yes	28	13.7				
No	177	86.3				
AVIN Presided Warcowstrat						
Yes	42	20.5				
No	162	79.5				

COMPARISON OF THESE FINDINGS WITH DATA FROM OTHER JURISDICTIONS

Previous reviews of the state of the art in pretrial risk assessments (VanNostrand 2007) have decried the tendency to treat each jurisdiction de novo, as if no useful information can be gleaned by comparing defendants in the immediate study to defendants in other studies. In point of fact, comparisons can serve an extremely useful purpose: to determine if the defendants in the current study systematically differ from defendants in other studies which would make them less likely to be predictable according to currently known predictive factors of pretrial misconduct. To this end, this section presents a comparative review of defendants in this sample to defendants in other recent studies, including a review of felony defendants in the nation's 75 largest urban counties and several major pretrial risk assessment validation studies conducted over the last decade for the state of Virginia (2003 & 2009), Hennepin, MN (2006), Maricopa, AZ (1999), New York City, NY (2003) and Allegheny, PA (2008).

A word of caution is necessary before proceeding with the comparisons. Unlike many of the jurisdictions where other risk assessment validation studies have been recently conducted, the Coconino County program targets all felonies, but only selected misdemeanors, such as DV and DUI cases. The program does not deal with most misdemeanors. This makes it distinct from the other jurisdictions such as Allegheny, PA, Hennepin, MN, and New York City, NY where the pretrial program reviews virtually all felony defendants and misdemeanants they can within staffing constraints. The state of Virginia's system takes this approach to a slightly narrower target population by stating that it is charged to conduct reviews for all defendants who are not charged with an offense punishable by death are reviewed for consideration for pretrial release. As a result, we should expect that our comparisons would reveal that the defendants reviewed in Coconino County would be more likely to be charged with felonies than defendants reviewed in other jurisdictions. This is not indicative that Coconino defendants are charged with more severe offenses, but only reflective of the Coconino County pretrial program's decision not to limit its target population.

Age

Coconino County pretrial defendants are sociodemographically similar in many respects to local pretrial defendants nationwide. Thirty-eight percent of felony defendants in the State Court Processing Statistics review of the nations' 75 largest counties are age 35 and older, while in Coconino County 37.3% of defendants are age 35 and older. However, Coconino County defendants are more likely to be between 25 and 35 than the local felony pretrial defendants in the nation's 75 largest counties (37% vs. 29%).

Education and Employment

Coconino County defendants share in common with VA and Allegheny, PA pretrial defendants that most completed high school, although over 60% of Coconino County defendants completed their high school or GED degree, making them slightly more educated than their counterparts in VA and Allegheny, PA. Similar to VA defendants,

Hennepin, MN defendants and New York City (NYC) defendants, around 40% of Coconino County defendants were unemployed (41.7% versus 36% in VA, 39% in Hennepin, MN, and 53% NYC). Coconino County defendants are slightly more likely to be transient than VA defendants (10.9% vs. 5%).

Community Ties

Coconino County defendants are much less likely than NYC or Allegheny, PA defendants to live with family (18.9% Coconino County, 60% NYC, and 47% Allegheny, PA). Unlike any other study's defendants, over 60% of Coconino County defendants were most likely to be residents of the same geographical area for over 20 years, an unusually long time. In VA the median time for defendants living in the same area is 15 years and in Allegheny, PA only 56% were country residents for more than 5 years. This may be a definitional matter though. Coconino defines "living in the same geographical area" as continuous residency in the same state. No other jurisdiction does this.

Property Ownership/Access

Almost identical to the 12% Allegheny, PA pretrial defendants who owned a home, 12.1 to 14.% of Coconino County pretrial defendants owned a home or business. Identical to VA pretrial defendants, 38% of Coconino County pretrial defendants had access to a vehicle. Like VA and NYC pretrial defendants, over 70% of Coconino County pretrial defendants had a phone (72.9% Coconino County, 76% VA, 74% NYC).

Given the similarities of Coconino County pretrial defendants to those in recent studies in that shaped the state-of-the-art in pretrial risk assessment scales during the last decade, we can reasonably expect to find that similar less complicated risk assessment instruments developed for those jurisdictions should be able to provide substantial leverage in predicting risk of flight and danger to the community in Coconino County.

Current Charge

While we saw that Coconino County defendants in this study are sociodemographically similar to defendants in other pretrial risk assessment studies, they are not similar to defendants in other studies in the nature of the severity of the current offense. This is to be expected, as it reflects the decision of Coconino County's pretrial program not to review (include in this study) a large segment of their misdemeanor defendant population. Overall, Coconino County defendants are appearing before the court on more serious charges than defendants in other studies. Unlike many jurisdictions, more than two-thirds of Coconino County defendants being considered for pretrial release have a felony as their most serious charge. For example, in VA, Hennepin, MN and in Allegheny, PA, only 34% to 36% of defendants were charged with a felony. In NYC, 52% of defendants were charged with a felony. This makes the average Coconino County defendant unusually risky by most pretrial standards.

Similarly, most of the recent risk assessment studies have been conducted in jurisdictions with a majority or a plurality of defendants with one charge and generally less than 10% with more than four charges. Over two-thirds of Coconino County defendants had more than one charge, and 13% had more than four charges. In Allegheny, PA 40% of pretrial defendants had one charge and in VA 68% of pretrial defendants had one charge. In Coconino County, only 28.8% of pretrial defendants had one charge.

The involvement of drugs in the current offense seems slightly lower than many other studies. In Allegheny, PA and NYC the defendant's most serious charge was a drug charge around a quarter of the time (27% Allegheny, PA and 22% NYC). On its face, this seems similar to Coconino County's 25.3% of defendants with drugs involved. However, that drugs are involved in an offense is a much broader definition of a drug crime than was utilized in the Allegheny, PA and NYC studies. Moreover, the Maricopa, AZ study had 39% of defendants with a drug charge.

Another indication of the greater severity of Coconino County defendants is the presence of a weapon. The 11.1% seen in Coconino County is 11 times the .3% seen in the Maricopa, AZ study, and nearly a third greater than the fraction of defendants in the Allegheny, PA study. However, it was similar to the 11.2% seen in Hennepin, MN.

Coconino County pretrial defendants are more likely to be in court for a violent crime than defendants in Allegheny, PA (12%) and VA (23%), but about as likely as NYC pretrial defendants (between 32 and 36%). Most crucially, Coconino County pretrial defendants were nearly twice as likely as Maricopa, AZ pretrial defendants (16% vs. 31.3%) to be charged for a violent crime.

Prior Criminal History

Coconino County defendants tend to have more serious prior criminal histories than defendants in other studies. Coconino County pretrial defendants are more likely than defendants in other studies to have a prior felony. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 31% or less of defendants had a prior felony, in Coconino County over 60% of pretrial defendants had a prior felony. Coconino County pretrial defendants are more likely than defendants in other studies to have a prior misdemeanor. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 69% or less of defendants had a prior misdemeanor, in Coconino County over 79% of pretrial defendants had a prior misdemeanor.

Prior Failure to Appear

Coconino County pretrial defendants are more likely than defendants in other studies to have a prior FTA. While in Allegheny, PA, Hennepin, MN, NYC, and VA, 31% or less of defendants had a prior FTA, in Coconino County over 47% of pretrial defendants had a prior FTA.

Current Involvement with the Criminal Justice System

Compared to other studies, Coconino County defendants are slightly more likely to have a current involvement with the criminal justice system at arrest. Almost 15% of Coconino County defendants had an active warrant, a higher rate than any other study (Allegheny, PA 2%, NYC 7%, and VA 5%). In Coconino County, 36% of defendants had a pending case at arrest, a higher rate than any other study (NYC 22% and VA 23%). However Coconino County defendants were less likely to be on probation or parole than defendants in Allegheny, PA (12% versus at least 15%).

Substance Abuse

Coconino County defendants are somewhat different than defendants in other studies with regard to substance abuse. Compared to VA pretrial defendants, Coconino County pretrial defendants are more likely to report being alcohol abusers (46.5% vs. 23%) and less likely to report being drug abusers (11.4% vs. 22%). Coconino County pretrial defendants were about as likely to be treated for substance abuse as Allegheny, PA pretrial defendants, but much more likely than VA pretrial defendants. This variation may be as much, if not more, due to local availability of treatment than any intrinsic characteristic of a pretrial defendant and any conclusions drawn should be viewed in such a light.

Pretrial Release Rates

Coconino County releases just over half of its defendants. Most comparable risk assessment studies show much higher release rates. Hennepin, MN released approximately 64% of defendants, VA released 84%, and in Allegheny, PA and NYC, over 90% of defendants were released pretrial. Coconino County's release rate is also lower than the release rate for felony defendants in large urban counties.

Pretrial Misconduct

Despite the higher prevalence of known risk factors in the Coconino County's pretrial defendants, we find that Coconino County defendants are slightly less likely to engage in pretrial misconduct than defendants in other studies. Coconino County's "failure rates" – failure to appear (11%), rearrest (14%), and either form of pretrial misconduct (21%) – are slightly lower than the numbers shown for the nation's large urban counties for felony defendants on pretrial release (18%, 18% and 33%, respectively). In fact, they are substantially lower than the known comparable numbers from other risk assessment studies cited. NYC study's failure to appear rate is approximately 16%, and the Allegheny, PA study's failure to appear rate is 22% and rearrest rate is 17%.

Overall, the comparative analysis indicates that Coconino County defendants are:

- Demographically similar to pretrial defendants in many other places around the nation:
- More likely to be charged with a serious offense (felony, violent, in connection with a weapon) than pretrial defendants in other places, which is a reflection of the

pretrial program's decision not to review several types of misdemeanants for pretrial release;

- More likely to have serious criminal histories involving felonies and failure to appear than pretrial defendants in other places;
- More likely to have an active criminal justice status at arrest than pretrial defendants in other places;
- Less likely to be released than pretrial defendants in many other places;
- Yet have similar rates of pretrial failure as compared to pretrial defendants in other places nationwide.

ANALYSIS OF THE VALIDITY OF THE COCONINO COUNTY RISK ASSESSMENT INSTRUMENT

This next section attempts to determine what components of the Coconino County risk assessment are associated with pretrial release status and pretrial misconduct. In Tables 8 and 9, all investigated relationships are coded for the direction of any statistically significant relationship found or the absence of a statistically significant relationship. A statistically significant relationship is a correlation sufficiently large enough that we can say it would be a nonzero correlation in 95 samples out of 100 samples drawn from Coconino County's pretrial defendants. A "+" indicates a significant positive correlation (as X goes up, Y goes up, Y goes up, Y goes down). "No" indicates no statistically significant relation was detected.

As Table 8 shows, several variables had a positive or negative correlation with the defendant being released during the pretrial period, but only a few variables that were positively or negatively correlated with pretrial misconduct.

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As Table 8 shows, several variables had a positive or negative correlation with the defendant being released during the pretrial period, but only a few variables that were positively or negatively correlated with pretrial misconduct.

Table 8
Bivariate Analysis of Variables Associated with Release and Pretrial Misconduct

Wears Significantly More Likely - Me	uns Significantly Less L			
Squadicand Difference Dependent Variablas				
Independent Variables	Reliense	(មាន្ត្រាល់ នៅប្រធ្វា		
Sectio-Dechagnaphies	20 To 10 To			
Age	The state of the s	THE RESERVE THE PROPERTY OF TH		
20 or Younger	No	No		
21 to 24	No	No		
25 to 35	No	No		
More than 35	No	No		
Education				
Non High School Graduate		No		
High School or GED	No	No		
College AA or Partial College	+	No		
Four Year College Degree	No	No		
Employment				
6 Mo. at Same Job	No	No		
Less than 6 Mo.	+	No		
Unemployed	-	No		
Residential Stability				
1 Address Past 12 Mo.	+	No		
2 or more Addresses Past 12 Mo	-	No		
No AZ Address	+	No		
Living Arrangements				
Lives with Family	No	No		
Other Living Arrangement	No	No		
Transient or No Permanent Address	-	No		
Time in Geographical Area				
Less than 3 Years	No	No		
3 to 5 Years	No	+		
5 to 20 Years	No	No		
20 Years or More	No	No		
Property Ownership Danger Scale				
Owns or is buying home/business	+			
Property Ownership Flight Scale				
Owns or is buying home/business	+	No		
Owns Vehicle	+			
No Assets	-	No		
Has Access to Vehicle	No	No		
Phone Access				
Phone in Defendant's Name	+	No		

Day Day Hao Mobile	·····	No
Pay-Per-Use Mobile No Phone	- NT - :	No
Corrent Offense Ormanentska	No	+
Most Serious Charge	NT .	
Level 2 Felony	No	-
Level 3 Felony	-	No
Level 4 Felony	-	No
Level 5 Felony	-	No
Level 6 Felony	+	No
Misdemeanor	+	No
Number of Charge Counts	· · · · · · · · · · · · · · · · · · ·	
1	No	No
2	. No	No
3	No	No ,
4	No	No
5 or More	No	No
Drugs Involved	+	-
Drug Sale	No	-
Weapon Involved	pa .	No
Violent Crime	No	No
Victim Injured	No	 -
Current Charge is a Warrant	-	No
Current Charge is a Warrant Prior Chimball History		No
Current Charge is a Warrant Perfor Commissal Missiony Prior Prison Time		+ +
Prior Calminal Wistory	-	
Prior Gammal History Prior Prison Time Prior Misdemeanor Charges None	- +	
Prior Cambrell Phylogy Prior Prison Time Prior Misdemeanor Charges		+
Prior Commedifications Prior Prison Time Prior Misdemeanor Charges None	+	+
Prior Command Physiony Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent	+ No	+ - No
Prior Commedification Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent	+ No	+ No No
Prior Commedification Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors	+ No	+ No No
Prior Commedification Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges	+ No No -	+ No No +
Prior Commedification Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None	+ No No No	+ - No No + No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges	+ No No No	+
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges	+ No No -	+ No No + No No No No No No
Prior Cinnatal Pistory Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges	+ No No - No	+ No No + No No No No No No No + +
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear	+ No No	+
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply	+ No No	+
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges With the Comminant Ins On Probation or Parole at Arrest	+ No No	+ No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges With the Communications	+ No No No	+ No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges through the Computation or Parole at Arrest Pending Case at Arrest	+ No No No	+ No H No No No H No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges With the Communal Just On Probation or Parole at Arrest Pending Case at Arrest Active Warrant at Arrest Turned Self in for Arrest	+ No	+ No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges With the Communal Ins On Probation or Parole at Arrest Pending Case at Arrest Active Warrant at Arrest Turned Self in for Arrest	+ No No No No No No	+ No
Prior Prison Time Prior Misdemeanor Charges None 0-3 Nonviolent Misdemeanor or 1 Violent 4-10 Nonviolent Misdemeanor or 2 Violent Over 10 Misdemeanors Prior Felony Charges None 1-3 Felony Charges 4-10 Felony Charges Over 10 Felony Charges Prior Failure to Appear Prior Failure to Comply Charges With the Chimical Just On Probation or Parole at Arrest Pending Case at Arrest Active Warrant at Arrest Turned Self in for Arrest	+ No	+ No No No No No No No No No + + No

Ever Been Treated for Substance Abuse	No	No

Table 9 separates the two types of pretrial misconduct, FTA and rearrest. Again, no correlation, either positive or negative, was found for most of the variables.

Table 9

Less than 6 Mo. No Unemployed No Residential Stability 1 Address Past 12 Mo. No No AZ Addresses Past 12 Mo No No AZ Address No Time in Geographical Area Less than 3 Years No 3 to 5 Years No 20 Years No Property Ownership Danger Scale Owns or is buying home/business (Danger Scale) No Property Ownership Flight Scale Owns or is buying home/business (Flight Scale) No Owns Vehicle No Assets +- Has Access to Vehicle Phone Access	y, ha Yasaas ya
Independent Variables Socio Demographics Employment 6 Mo. at Same Job No Less than 6 Mo. No Unemployed No Residential Stability 1 Address Past 12 Mo. No 2 or more Addresses Past 12 Mo No No AZ Address No Time in Geographical Area Less than 3 Years No 3 to 5 Years No 5 to 20 Years No 20 Years or More No Property Ownership Danger Scale Owns or is buying home/business (Danger Scale) No Property Ownership Flight Scale Owns or is buying home/business (Flight Scale) No Owns Vehicle No Assets +- Isa Access to Vehicle Phone Access	No No No
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No Assets + 1 Has Access to Vehicle - 1 Phone Access	l
Has Access to Vehicle - 1 Phone Access	No
Phone Access	No .
	No
Phone in Defendant's Name	
I note in Belefidant B Name	No
Pay-Per-Use Mobile No 1	No
	No
Comment Offense Characteristics	
Most Serious Charge	
Level 2 Felony No -	
	No
Level 4 Felony No 1	No
Level 6 Felony No 1	No

Misdemeanor	No	No
Drugs Involved	No	•
Drug Sale	-	-
Briss Criminal Wistory		
Prior Prison Time	No	+
Prior Misdemeanor Charges	· · · · · · · · · · · · · · · · · · ·	
None	No	No ·
0-3 Nonviolent Misdemeanor or 1 Violent	No	No
4-10 Nonviolent Misdemeanor or 2 Violent	No	No
Over 10 Misdemeanors	No	+
Prior Felony Charges	,	. · · · · · · · · · · · · · · · · · · ·
None	No	No
1-3 Felony Charges	No	No
4-10 Felony Charges	No	No
Over 10 Felony Charges	No	+
Prior Failure to Appear	+	+
Prior Failure to Comply	No	+
- Concert involvencent with the Colorinei Ju	বৰ্ণৰেছ উপ্ৰবাহনে	
Pending Case at Arrest	+	No
Active Warrant at Arrest	+	+

For variables with no significant differences among values, results not shown (Age, Education, Living Arrangements, Number of Charges, Weapon Involved, Violent Crime, Victim Injured, Current Charge is a Warrant, On Probation or Parole at Arrest, Turned Self in for Arrest, and Alcohol or Drug Treatment).

Chart 7 reviews the types of adverse release outcomes that exist with various types of pretrial release. Defendants released on bail bond are the most likely to be rearrested, and those released on recognizance the least. Defendants placed under pretrial program supervision are the most likely to fail to appear, while defendants released on bail bond are the least likely to fail to appear.

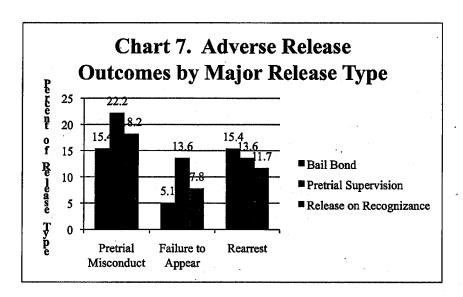


Chart 8 shows that the current risk instrument parallels release status outcomes, but is not dispositive. Well over a third of defendants in the highest risk category who are classified as too risky for a recommendation to be issued by the pretrial program are nevertheless released (see Chart 5). At the other extreme, nearly 10% of pretrial defendants the risk assessment classifies as candidates for release on recognizance are not released under any conditions.

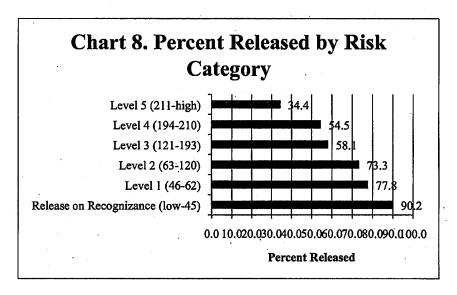


Chart 9 examines the discriminant validity of the risk assessment instrument for predicting either type of pretrial misconduct, i.e., failure to appear or rearrest. If the risk assessment instrument were predictive, the highest risk categories ought to have the highest rates of pretrial misconduct. An "inverted stair shape" ought to appear in chart 9. What we see is that this inverted stair shape does not exist.

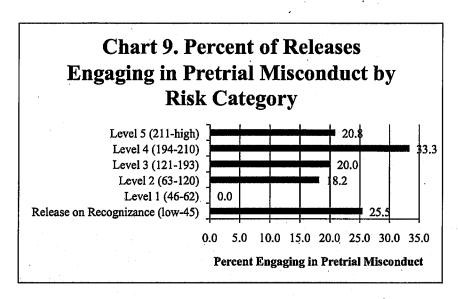


Chart 10 takes this same procedure and applies it to predicting just failure to appear. While a partial stair shape appears, it is quite distorted, with the highest levels of risk and lowest levels of risk simply not conforming to an inverted stair shape.

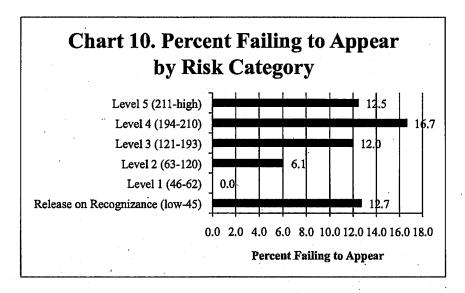
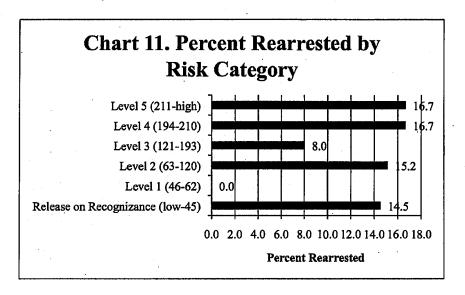


Chart 11 takes this same procedure and applies it to predicting rearrest. While stair shape appears, it is quite distorted, with levels one and three of risk not conforming to an inverted stair shape.



In sum, the current risk assessment instrument is modestly predictive of defendants' pretrial release status, but not very efficient at predicting any form of pretrial misconduct. This actually fits a well-known statistical phenomenon called selection bias. When a study is conducted under conditions where a known screening instrument is employed to select candidates for treatment (i.e., release), the factors that go into the screening instrument will serve to reduce the variation among the selected candidates for treatment on those factors. This is because if the predictors of release are the predictors of risk, and Coconino County courts only release defendants who have low risk scores, there will be limited variation in scores among released defendants on the variables normally thought to predict pretrial risk (both flight and dangerousness). When there is limited variation, there will be attenuated predictive capacity of these variables, if not the complete elimination of the predictive capacity of these variables. When the impact of such a selection process (the selection of defendants for release) is not too severe (removes only 30% or less of the sample), there are statistical corrections available for multivariate analysis: Heckman Selection Bias Correction, Two-Stage Least Squares, and Propensity Score Matching.

In the case of Coconino County, nearly 50% of defendants are not released. This means that the selection bias is too severe for multivariate models to handle to enable the successful estimation of coefficients for establishing a risk assessment instrument based upon the coefficients as is typical in pretrial risk assessment studies. Evidence for this is presented in tables 8 and 9. We see factors known to predict risk of pretrial misconduct predicting pretrial release in Coconino County, but often do not predict pretrial misconduct in Coconino County. Since many of these known factors are demographic and we know that Coconino County defendants are actually typical on demographic characteristics, the inability of known demographics to predict pretrial misconduct yet predict release (e.g., education, employment, residential stability, living arrangements) is strong evidence that

⁴ Bear in mind that since the Coconino County Pretrial Services does not interview most misdemeanor defendants – a population that usually has higher release rates than felony defendants – the actual pretrial release rate for the jurisdiction is likely much higher.

severe selection processes are occurring in Coconino which will render normal logistic regression and even statistical adjustments like Heckman selection bias correction predictions of pretrial misconduct ineffective.

CONSTRUCTION OF NEW RISK ASSESSMENT INSTRUMENT

Since we cannot efficiently utilize multivariate analysis to generate an improved risk assessment instrument, we turn to simulations. Starting from the current risk assessment instrument, we will pare out factors that have not been found to be predictive of either flight risk or dangerousness risk according to state of the art pretrial risk studies from other jurisdictions cited earlier in this analysis. We will also add a few known predictive factors from a review of evidence-based practices. As one final adjustment, we will simplify the weighting of predictive factors to a weight of one point per factor, with a base value of 0 for an absence for a factor. Failure rate classifications from this pared down instrument will be compared to the current instrument. If we see a more inverted stair shape with the pared instrument than with the current instrument, we can consider the pared down instrument to be an improvement over the current instrument.

According to a 2007 review of best practices in pretrial risk assessment, the following are considered "good predictors of court appearance and/or danger to the community":

- Current Charge(s)
- Outstanding Warrants at Time of Arrest
- Pending Charges at Time of Arrest
- Active Community Supervision at Time of Arrest (e.g., Pretrial, Probation, Parole)
- History of Criminal Convictions
- History of Failure to Appear
- History of Violence
- · Residence Stability
- Employment Stability
- Community Ties
- History of Substance Abuse

To further elaborate, drug offenders are not known to be a greater flight risk than violent or property offenders (PJI 2007; Austin and Murray, 2008) nor are they known to consistently be a greater community safety risk than property offenders (PJI 2007). That a history of violence has been associated with pretrial misconduct should not be interpreted as having a violent charge is associated with pretrial misconduct. Evidence suggests that it is not.

This review suggests that current age should be dropped from the flight risk scale.⁵ This review suggest that the drug trafficking factors, weapons involved, victim injury, child injury, victim deceased, combative/aggressive behavior, gang-related charges, turned self in and education should be dropped from the dangerousness scale.

The state-of-the-art in pretrial risk assessments currently holds that substance abuse is a risk factor for rearrest. In addition, current risk assessments weight the import of the volume of prior criminal history and current offense charges far less than the Coconino

⁵ The original flight scale had a behavioral characteristics component. The dataset PJI received had no information on behavioral characteristics, so we assume that it was dropped from the scale.

County's current risk instrument. Recent studies indicate that it is the presence or absence of a prior criminal record, and the fact that there are more than ten prior criminal events (i.e., a clear case of a career criminal) that matters most for predicting dangerousness. Similarly, the fact that defendants have multiple charges, rather than how many charges beyond two matters most for dangerousness. An additional point can be added for a case with over ten charges for a case of extreme severity. Other alterations in Coconino County's risk assessment instrument also need to be examined. The instrument counts property ownership in both the flight risk and dangerousness risk scores. The weights of these factors appear to have been generated with respect to each type of risk individually. However, when placed in the current combined formulation the combined weight will overemphasize the role of these factors, rendering the instrument predictive of neither type of risk.

The resulting risk scale is:

charge count+offense charge level+on probation+pending case+active warrant+prior misdemeanor count+prior felony count+failure to appear at earlier point in current case+transient+duration of address residency+duration of employment+duration of residence in community+lack of assets+lack of phone+no vehicle access+use of drugs+use of alcohol.

Where offense charge level, prior misdemeanor count, prior felony count, duration of address residency, duration of employment, duration of residence in community all take on a trichotomous categorization (0, 1, 2), where 0 indicates the lowest risk. All other variables take on a 0,1 categorization where 0 indicates the lowest risk.

The resulting risk scale runs from 0 to 18, and is divided into 3 categories of six points apiece to create low risk (0-6), medium risk (7-12) and high risk (13-18) classifications. This results in 26.4% of defendants being classified as low risk, 61.8% of defendants being classified as medium risk, and of 11.1% of defendants being classified as high risk.

CONSTRUCTED COCONINO COUNTY RISK ASSESSMENT CRITERIA Current Offense

1	Three or more charges
1	Most serious current charge is a level 4-6 offense
2	Most serious current charge is a level 3-2 offense
3	Most serious current charge is a level 1 offense

Criminal History

1	On Probation at time of arrest
1	Pending case at time of arrest
1	Active warrant at time of arrest
1	One to ten misdemeanors (no more than 2 violent)
2	More than ten misdemeanors
1	One to ten felonies
2	More than ten felonies
1	Prior failure to appear

Stability Factors

	Diffy 1 uclose
1	Two or more AZ addresses past twelve months
2	No AZ address
1	Transient
1	Less than six months at current job
2	Unemployed
1	Three to five years in community
2	Less than three years in community
1	No assets
1	No phone
1	No vehicle access

Social Factors

1	Abuses drugs	
1	Abuses alcohol	

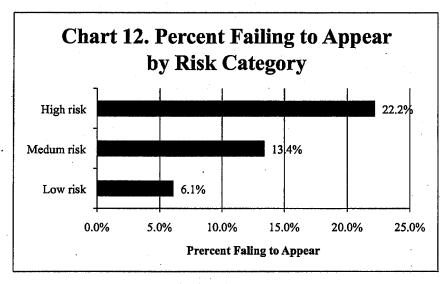
Ranges:

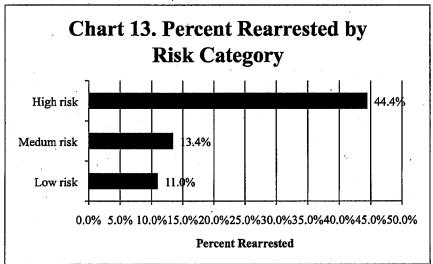
0 to 6 = Low (ROR)

7 to 12 = Medium (Supervised Release)

13 to 18 = High (No recommendation for non-financial release)

The classifications are quite successful at creating the step pattern we would wish to see among Coconino County defendants who were released pretrial. The step patterns in charts 12 and 13 suggest that the new risk instrument performs better at predicting failure to appear than rearrest.



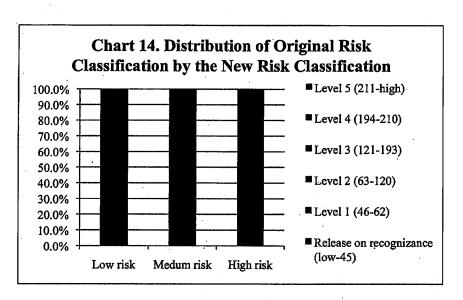


The success at classification would seem to belie the claim that multivariate analysis cannot be done effectively due to selection bias effects. A brief logistic regression analysis in STATA reveals that while the risk classification instruments do have predictive capacity - approximately 23% of the variation in failure to appear and 15% of the variation in rearrest - they are very inefficient, with only 2 or 3 factors having any useful predictive capacity. In the case of failure to appear, the lower the charge level, the more likely the defendant is to fail to appear at the 90 percent confidence level. At the 95 percent confidence level, the lack of a phone is associated with a higher likelihood of failure to appear. Only these two factors have any predictive capacity for failure to appear.

In the case of rearrest, the longer the time at the same address, the greater the likelihood of being rearrested and the shorter the time at the current job/being unemployed, the more likely the defendant is to be rearrested. Only these two factors have any predictive capacity for rearrest at the 90 percent confidence level. As can be seen, some of these multivariate conclusions are not only quite limited in their utility, but in the case of residential stability and rearrest, simply counter to all known work in the area of pretrial risk assessment. Heckman probit selection correction methods cannot be computed due to extreme collapse of variation in most of the predictor variables. This leaves us with the conclusions from the logistic regression models. If we were to recommend instruments based on the logistic regressions' coefficients, Coconino County would be done a disservice.

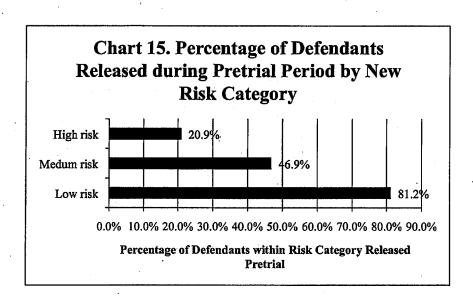
By utilizing the factors evidence-based practices suggest we incorporate the best of the known research and incorporate most of the few predictive factors that do exist according to an empirical analysis of Coconino County defendants. This approach safeguards Coconino against being misled by the results generated from an analysis of releases from its current limited release patterns of its pretrial system.

Chart 14 compares the old and new risk classification systems. The new risk classification places in its low risk category defendants from all levels of the old risk classification. Over 85% of defendants in the new low risk category come from the old risk classifications levels release on recognizance through level 2. More than two-thirds of the new medium risk category comes from the old risk classification level 5. Over 95% of the new high-risk category comes from the old risk classification level 5.



For purposes of evaluating the impact of the proposed risk assessment instrument, let us consider the low and medium risk category defendants as recommended for release on recognizance and pretrial supervision, respectively, while the high risk defendants are recommended for financial release. Such a scenario would result in recommending non-financial release for 146 defendants currently not released, and recommending financial release for 9 defendants currently released. This would mean that 81.1% of those currently not released would be recommended for non-financial release and 4.4% of those released would be recommended for financial release.

Chart 15 looks at the potential for change if the new risk classification was fully implemented. Twenty-one percent of high-risk defendants that are currently released would not be recommended for non-financial release. On the other hand, 53% of medium risk category defendants not currently released would be recommended for pretrial supervision, or third party supervision. An additional 19% of low risk defendants not currently released would be recommended for release on recognizance.



CONCLUSION

It is important to keep in mind what a pretrial risk assessment instrument can and cannot do. It can, when backed by science, effectively sort defendants into risk categories – identify which defendants are at low risk for an FTA or rearrest, which are at moderate risk, and which are at high risk. It cannot guarantee that all low risk defendants will show up for all court appearances and not be rearrested. Likewise, it is no guarantee that all high risk defendants will FTA or be rearrested if released.

In the previous section, a new pretrial risk assessment instrument is suggested for Coconino County Pretrial Services. The simulations that were run on the proposed instrument show that Pretrial Services can significantly increase the number of lower risk defendants identified for release recommendation without sacrificing higher rates of FTA and rearrest.

Several steps must now follow to assure the most effective uses of the findings of this study. First, there must be clarity about the findings among key system actors, including judges, prosecutors, defense attorneys, and pretrial program staff. To that end, PJI will work with these officials, presenting the findings in person, answering any questions and addressing any concerns. In the end, the risk assessment instrument is only going to be useful if it is used, and it will not be used if it is not understood. Second, PJI will work with Pretrial Services staff to best assure inter-rater reliability on scoring defendant risk with the new instrument. Third, over the longer term, Pretrial Services should work to enhance its information processing capability so that it can monitor outcomes (FTA and rearrest) of the new instrument and be able to report findings to the court.

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APPENDIX

Logistic Regression Models for Failure to Appear and Rearrest

Appendix Table 1

Risk Factor	Logged Odds Ratio ¹	Standard Error		
Current Offense	208800 0222 11220			
Charge count ²	0.17	0,56		
Offense charge level ²	-0.51+	0.31		
Criminal History		1		
On Probation	-0.14	0.91		
Pending Case	0.92	0.62		
Active Warrant	1.10	0.73		
Prior misdemeanors ²	-0.08	0.57		
Prior felonies ²	-0.49	0.53		
Prior failure to appear	0.74	0.71		
Stability Factors				
Transient	-1.30	1.26		
Duration of residency at current	0.41	0.40		
address ²	0.10	0.25		
Duration of current	0.18	0.35		
employment ² Duration of residence in the	0.10	0.69		
community ²	0.10	0.09		
Lack of assets	0.63	0,68		
Lack of phone	1.81	0.58		
Lack of phone Lack of vehicle access	0.27	. 0.66		
Social Factors	0.27	. 0.00		
Abuses drugs	0.09	0.89		
Abuses alcohol	0.13	0.62		
Intercept/Constant	-3.49**	0.82		
Log Likelihood Ratio Model		1.49**		
Improvement				
R-squared		0.23		
McFadden Adjusted R-squared		-0.03		
Model Fit	1			
	203			

^{**} Difference is statistically significant at p>.01 level.

1 STATA utilizes the logged odds ratio to produce unstandardized coefficients.

2 See coding table for values. All residual categories have a value of zero.

TAB 8

FEDERAL PRETRIAL RISK ASSESSMENT INSTRUMENT (PTRA)								
					· · · · ·			
Defendan	r's Name:		DATE	OF ASSESSMENT	:			 ·
•	·							
PACTS#:_	•		Offici	ER:				
		 :	Distri	ют:				
.0.CRIM	IINATE BUSTORAY & CURREDAT (O)	DPENSE:						
	Number of Felony Convictions	77 P. C.	44 Table 44 Table 7 Ta					
	0=None					•		<u> </u>
	1=ONE TO FOUR							
	2=FIVE OR MORE							
	··							
1.2.	Prior FTAs							
	0=None							<u> </u>
	1=ONE			•				•
	2=Two or more							
1.3.	PENDING FELONIES OR MISDEMEANOR	kS .						
•	0= None							
	1=One or more							
1.4.	Current Offense Type							
	0= Theft/fraud, violent, oth	ŒR						
	1=Drug, firearms, or immigr			,				
15 (Offense class	•		**				
1.5.	OII ENOU CENTAL		•	• •				
•	0=Misdemeanor							
	1=Felony				•			
1.6.	Age at interview		,					
	0=47 or above							!
	1=27 то 46							
	2=26 or younger							
				L ZTATA	i. Ĉrimi	vat Hi	STOR	/ 144

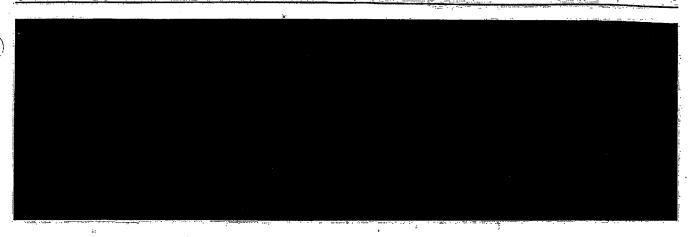
Z.I HIG	HEST EDUCATION				
	0=College Degree			<u></u>	
	1=HIGH SCHOOL DEGREE,	VOCATIONAL, SOME COLL	EGE	,	
	2=Less Than High School	OL OR GED			
2.2 EMP	LOYMENT STATUS				-
	•	•		<u></u>	
	CIRCLE APPROPRIATE IT 0=EMPLOYED FULL TIME	EM BELOW AND RECORD S	CORE IN BOX		1
	0=EMPLOYED PART TIME			,	٠.
	0=DISABLED AND RECEIVE	NG BENEFITS			
	1=STUDENT/HOMEMAKER		•		
	1=UNEMPLOYED	•			
	1=RETTRED, ABLE TO WOR	KK.			
	• .		•		
2.3 Resid	DENCE			·	
	0-Oursy/Dryngyy and	, .			
•	0=Own/Purchasing 1=Rent, No Contribution	N OTHER NO Priver To 1	JVÉ		.
	I-KENI, NO CONTRIBUTIO	M, OTHER, NOT LACE TO I	NAE.		
2.4 CURR	ENT DRUG PROBLEMS				\neg
				_	
	1=YES			·	j
	0=No	•			
	•		•		
2.5 CURR	ENT ALCOHOL PROBLEMS				
				<u></u>	
	A=YES				l
	B=No		*	. •	İ
2.6 CITIZ	enship Status	•			
2.0 0			•		
	0=US CITIZEN				
	1=Legal or Illegal Ali	EN			
	•	3			
2.7 Fore	ICM TIES				\neg
2.7 TOKE	NOW TIES				
	A=YES				
	B=No				- 1
	•				l
2.7 (A) I	OOES THE DEFENDANT HAVE A	ANY OF THE FOLLOWING TI	ES TO A FOREIGN CC	OUNTRY?	-
	A=YES			<u> </u>	
	B=No				
	a				
	CIRCLE ALL THAT APPLY		•		
	FAMILY (PARENTS, SIBLING SPOUSE	io, Cousins, etc.)			
	CHILDREN			•	
	SIGNIFICANT OTHER			•	
	BUSINESS RELATIONS				
	FRIENDS				
	OTHER				
	NO FOREIGN TIES		,		
	IF YES, WHAT COUNTRY OF	. CONDITION TOO			I

2.7 (B) DOES THE DEFENDANT MAINTAIN CONTACT WITH ANY INDIVIDUAL IN QUESTION 2.7(A)?
A=YES
B=No
B-110
2.7 (C) IS THE DEFENDANT A CITIZEN OR RESIDENT OF A FOREIGN COUNTRY? IF YES, WHICH
COUNTRY OR COUNTRIES? (PLEASE INDICATE WHAT COUNTRY.)
A=Yes
B= No
2.7 (D) Does the defendant possess a valid or expired passport (either u.S. or foreign)?
2.7 (D) DOES THE DEPENDANT POSSESS A VALID OR EXPIRED PASSFORT (EITHER U.S. OR PORESON).
A=Yes
B= No
2.7 (E) Does the defendant have any financial interests (such as, property, bank
ACCOUNTS, ETC.) OUTSIDE OF THE U.S.?
A=YES
B=No '
2.7 (F) has the defendant traveled outside of the u.s.?
A= Yes B= No
D=1/10
CIRCLE APPROPRIATE ITEM BELOW:
Within the past 1–5 years
WITHIN THE PAST 6-10 YEARS
NO FOREIGN TRAVEL
2.7 (G) WAS TRAVEL IN 2.7(F) FOR ANY OF THE FOLLOWING?
2.7 (d) WAS TRAVEL IN 2.7(1) FOR ANY OF THE FOLLOWING:
A=YES
B= No
CIRCLE APPROPRIATE ITEM BELOW:
A=PLEASURE
B=BUSINESS
C=BOTH D=NOT APPLICABLE
D-NOT APPLICABLE ROPAL OFFICE
TOTALSCORE
1 1 (ITEMS:1)1-2.7(G)[1

Likelihood of outcomes based on event occurring during pretrial period.

Risk Category	N.	%	Risk Score	FTA	NCA	FTA/NCA	TV	FTA/NCA/TV
4 Category I	52,677	129	0E4 F166	.9 1%	1%	74 2%:	. 11%	3964
Category 2	52,653	29	5-6	3%	- 3%	5%	4%	9%
tar Category 3	4919/20	27	164783	4%	5%	198, 10%,	9%6	5525FL8%H-1910
Category 4	21,779	12	9-10	6%	7%	15%	15%	28%
Category 55.	124,7104	3		6%	110%	# 20% T	19%	35%





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THE UNITED STATES Pretrial Services system was created in 10 demonstration districts by Title II of the Speedy Trial Act of 1974. The Act authorized the Director of the Administrative Office of the U.S. Courts (AO) to establish in 10 judicial districts demonstration pretrial services agencies to help reduce crime by defendants released to the community pending trial and to reduce unnecessary pretrial detention. Five of the pretrial services agencies were to be administered by the Probation Division (now the Office of Probation and Pretrial Services) and five by boards of trustees appointed by the chief judges of the district courts. Title II also instructed the Director to compile a report on the effectiveness of pretrial services in these demonstration districts.

The fourth and final report on the Implementation of Title II of the Speedy Trial Act of 1974 was published on June 29, 1979. That report concluded that pretrial services should be expanded in the federal system. The report effectively made pretrial services the first implemented evidence-based practice in the federal probation and pretrial services system. The passage of the Pretrial Services Act of 1982 began a process of establishing pretrial services in the remaining 83 federal districts. Pretrial services cases in the District of Columbia are not classified as federal pretrial services cases by the Pretrial Services Act of 1982; thus there are only 93 pretrial services offices.

The federal pretrial services system, like all judiciary units, is highly decentralized. Each district has a great deal of autonomy, with

the Administrative Office of the U.S. Courts working through a system of Judicial Conference committees to develop national policies and implement new processes and procedures like a risk assessment tool. This article explains the process used to develop the Pretrial Services Risk Assessment tool (PTRA), beginning with an overview of the literature for pretrial services risk assessments, moving to an explanation of the choice to create a federal risk assessment instrument rather than use an existing one, and concluding with the methodology and results produced in the re-validation of the PTRA.

Literature Review

One area in which pretrial services originally led criminal justice research was actuarial risk assessment, with devices utilized in several of the larger cities, including Washington, D.C. and New York, long before post-conviction assessment devices were utilized in those cities. Unfortunately, use of such tools, while continuing in those cities, did not spread to other agencies as rapidly as they did in postconviction assessment, Risk assessment is an area with enough significant differences between post-conviction and pretrial services to prevent much sharing between them. For example, pretrial services focuses significantly on failure to appear, which is not a focus of post-conviction; in contrast, post-conviction focuses on long-term recidivism, something which historically does not concern pretrial services. Therefore, at least theoretically, there

is little crossover between the two disciplines in the area of risk assessment.

While not a lot of work is being done in the literature on risk assessment in pretrial services when compared to post-conviction risk assessment literature, it is clearly the pretrial services area that has received the greatest research attention, and there are some studies of excellent quality (e.g., Toborg, Yezer, Tseng & Carpenter, 1984; Goldkamp & Gottfredson, 1988; Levin, 2006; VanNostrand, 2007; Goldkamp & Vilcica, 2009; Lowenkamp & Whetzel, 2009).

Toborg, Yezer, Tseng, and Carpenter provide an excellent place to begin the discussion to clearly identify the two types of selectivity bias inherent in the process. First, there is a group of arrested defendants who are detained; because of this detention, their propensity for pretrial arrest and failure-toappear cannot be observed. This first form of bias is fairly common and is discussed in most research on pretrial services risk assessment initiatives. However, rarely seen is a discussion of the second form of selectivity bias, which involves defendants who are released under different scenarios: some are released without any restriction; others are released on various bond types or with various conditions that are based on individual characteristics (Toborg, Yezer, Tseng, & Carpenter, 1984:102). It is important to recognize possible errors so they can be reduced.

When a risk assessment tool was used, more defendants were released, on less re-

strictive conditions, and with no increase in failure-to-appear or rearrest rates, compared to similar defendants released without use of a risk assessment tool (Toborg, Yezer, Tseng, & Carpenter, 1984:105). The risk prediction tool Toborg, Yezer, Tseng, and Carpenter developed increased release rates by 12 percent, again with no appreciable increase in failureto-appear or rearrest rates (Toborg, Yezer, Tseng, & Carpenter, 1984:58). Binally, their research concludes that the tool was more accurate for appearance than for safety (Toborg, Yezer, Tseng, & Carpenter, 1984:73). Risk tools, while tremendously useful in improving agency decision-making and ultimately release recommendations, have limitations. For instance, they are good at identifying groups of defendants who present various risks, but they cannot be totally accurate at the individual level (Toborg, Yezer, Tseng, & Carpenter, 1984:111). Low risk is not no risk, and that can be a difficult concept for decision-makers to support, so pretrial tools must do everything possible to limit errors. For example, when implementing a risk assessment tool, agencies need to convey to line staff the important limitation that the tool should not be followed blindly; therefore, permitting an officer to override the tool after staffing with the supervisor or some similar override methodology should be the standard.

Goldkamp and Gottfredson studied three urban jurisdictions and concluded that successful implementation of a risk assessment device requires strong judicial leadership (Goldkamp & Gottfredson, 1988:129). Goldkamp and Gottfredson identified some ways to maximize success when strong judicial leadership was absent, through ongoing training, assessment of the officer's use of the tool, and annual or bi-annual certification of the officer's skills in using the tool. As the experience of the federal system, which lacks judicial involvement in the implementation of the risk assessment, will ultimately demonstrate, failure to involve judges makes acceptance more difficult. In addition, the Goldkamp and Gottfredson study confirmed the major findings of Toborg, Yezer, Tseng, and Carpenter's earlier research.

One of the great strengths of the Goldkamp and Vilcica research is that it squarely takes on some of the most enduring "urban legends" of pretrial services risk assessment research. Most pretrial services agencies, including the federal system, continue to capture data on and analyze the variable of community ties. While some of the fascination with community ties stems from its identification as an important variable in the granddaddy of all pretrial services research, the original Vera project, this variable likely endures because of its tremendous "face validity." Its inclusion in the small number of long-standing important pretrial services variables is certainly not warranted by the research results of the last 20 years: However, most researchers merely ignore the variable of community ties, since the analysis does not bear out its value (e.g., Administrative Office of the United States Courts, 1979; VanNostrand, 2003; VanNostrand & Keebler, 2009; Winterfield, Coggeshall, & Harrell, 2003). Goldkamp and Vilcica take on the lack of value of community ties for pretrial risk assessment in an effort to remove this variable from its lofty perch.

Goldkamp's analysis of factors influencing judicial decisions at the pretrial release decision, however, found that contrary to the intended effect of Vera-type information-based reform procedures community ties items did not play a significant role in shaping judges' actual pretrial custody decisions—and were not helpful predictors of defendant risk (Goldkamp & Vilcica, 2009: p. 124).

The seemingly "obvious" importance of including judicial officers in the development, implementation, and ongoing use of a risk assessment device is not found in virtually any other research on the topic of pretrial risk assessment. Only Goldkamp and Vilcica's findings discuss the issue of judicial involvement, not to mention endorsing the strong role it played in the Philadelphia research: "Asa judicially developed and adopted policy, it stands alone in the nation in the first years of the 21st century-one might argue, in isolation-as an empirically informed approach to the problem of judicial discretion at the bail stage" (Goldkamp & Vilcica, 2009:129-30). This is an important finding for the federal system, as PTRA was implemented without judicial involvement, which has clearly impacted the acceptance and use of the tool in the federal system.

Given Goldkamp and Vilcica's vision of pretrial justice and their desire to improve the pretrial release process and reduce judicial discretion, it is almost shocking that they missed the importance of pretrial detention and made the tool detention neutral (Goldkamp & Vilcica, 2009:134). This is especially true since Philadelphia has operated pretrial services under federal court supervision due to jail overcrowding at various times during the 20-plus years of the guideline project in Philadelphia. Reducing unnecessary pretrial

detention needs to be a core principle for pretrial services and judicial officers, given the negative consequences of pretrial detention at subsequent phases of the criminal justice system. The negative impacts on defendants have previously been documented in state, county, and local systems and will be established for the federal system in upcoming research by Oleson, Lowenkamp, and Cadigan.

Given that risk of failure to appear is only relevant in pretrial, we can't rely on post-conviction risk assessment research to establish it. Levin merged data from the Bureau of Justice Statistics State Court Processing Statistics (SCPS) program, which compiles criminal justice data (including pretrial) from the 75 largest counties in the nation, with Bureau of Justice Assistance survey data from 200 of the nation's pretrial programs. The merged datasets enabled him to study over 1,500 defendants on conditional release in 28 counties during 2000 and 2002. That research revealed that a defendant's odds of failing to appear in a county that uses a quantitative risk assessment are .40 times lower than the odds faced by a defendant appearing in a county that uses qualitative risk assessment (Levin, 2006:10). In addition, if the county uses some mix of quantitative and qualitative measures, defendants are still less likely to fail to appear (Levin, 2006:10). This result is particularly relevant to the federal system, because it is the approach now employed. Finally, if the county uses some mix of quantitative and qualitative measures, defendants are also less likely to be rearrested (Levin, 2006:11).

The literature on pretrial services risk assessment clearly establishes several important premises: "objective risk assessment produces more non-cash release recommendations" (Cooprider, 2009:15); "Notwithstanding a broader definition of 'pretrial failure' and cutting field contacts in half, violation rates declined or remained stable since the implementation of objective risk assessment" (Cooprider, 2009:15); and predictive items identified in pretrial services risk assessment research change over time and therefore must be re-validated on an ongoing basis to ensure their integrity and effectiveness (e.g., VanNostrand, 2003; VanNostrand & Keebler, 2009; Siddiqi, 2002).

One example of an established risk assessment finding likely to change is a relatively consistent finding in risk prediction research in the city of New York for the past 20 years: the predictive value of having a telephone in the residence of the defendant. Given the changes in telecommunications in the past decade,

from the dominance of landline technology to increasing reliance on cell phone technology, it seems unlikely that future research will continue to find great predictive value for a landline phone in the defendant's residence (Siddiqi, 2002:2). Fortunately for citizens in New York City, the agency providing pretrial services has an excellent research operation that re-validates their risk prediction tool every three to five years as warranted. Ongoing re-validation is an essential step for all pretrial risk assessments and is the motivation for this research.

Pretrial Services Risk **Assessment Tool**

Actuarial risk assessments are new to the federal pretrial services system; in fact, this is the first tool developed and implemented in the federal pretrial services system since its inception in the early 1980s. One tool was previously developed for use in the federal pretrial services system by Dr. John Goldkamp and Dr. Barbara Meierhoefer. The tool was effective at identifying cases appropriate for release, tested effectively in 12 districts, and was submitted to the Judicial Conference Committee on Criminal Law for national implementation (Meierhoefer, 1994). Unfortunately, because it was named "Recommendation Guidelines" and was presented to the judges within two years of the implementation of Sentencing Guidelines, the tool was rebuked as too limiting to judicial discretion in the pretrial release decision. It took almost 18 years to overcome issues generated by the name of this tool.

The Administrative Office of the U.S. Courts works closely with the Office of Federal Detention Trustee, a Justice Department agency charged with administering and controlling the costs of pretrial detention in the federal system. That relationship led to a significant piece of research funded by the Office of Federal Detention Trustee using United States Court data and expertise to assist the researcher. The report on that research is titled Pretrial Risk Assessment in the Federal Court and has already led to the most significant improvement in the federal pretrial services system since its inception: the development and implementation of an actuarial risk assessment tool.

In addition to recommending a risk assessment tool, the Office of Federal Detention Trustee Report contains a number of interesting findings relevant to the operation of the federal pretrial services system. One of the primary goals of the system, reduction of un-

necessary detention, is not being promoted by the staff, as they recommend detention more often than judicial officers actually detain defendants. Similarly, recommendations of detention by pretrial services officers rose each year, from 56 percent in 2001 to 64 percent in 2007. The report also observes that the risk posed by the defendants released increased slightly, from 2.85 in 2001 to 3.1 in 2007, as measured by the Risk Prediction Index (RPI). The Risk Prediction Index is a post-conviction measure of risk that was developed by the Federal Judicial Center and was implemented in federal pretrial services in 2004. However, it was only applied to or required to be completed on defendants who were released and subject to a condition of pretrial services supervision. For cases prior to 2004, the researcher abstracted the Risk Prediction Index score from the post-conviction record.

The study commissioned by the Office of Federal Detention Trustee tested for effectiveness the conditions of release known as alternatives to detention (substance abuse testing and treatment, third-party custody, halfway house placement, location (electronic) monitoring, and mental health treatment); the report contains a number of findings based on that analysis. First, low-risk defendants placed on location monitoring had an increased risk of failure compared to similar defendants who were not placed on location monitoring (Van-Nostrand & Keebler, 2009:32). In addition, location monitoring was greatly overused on low-risk defendants. The only alternative to detention to positively impact defendants at all levels of risk, provided there was a demonstrated need, was mental health treatment (VanNostrand & Keebler, 2009;32). All four other alternatives to detention negatively impacted low-risk defendants (VanNostrand & Keebler, 2009:31-33).

What impact does over-supervising or over-treating low-risk federal defendants have on their outcomes? For the most part we have operated under the assumption that "it can't hurt" to have conditions in place. Unfortunately the research demonstrates that unnecessary alternatives to detention placed on low-risk federal defendants can and do hurt defendant outcomes by increasing their failure rates.

First, the lower risk defendants, risk levels 1 and 2, are the most likely to succeed if released pending trial and in most cases release should be recommended. An alternative to detention, with the exception of mental health treatment when appropriate, generally decreases the likelihood of success for this population and should be recommended sparingly (VanNostrand & Keebler, 2009:10).

In some areas, for example location monitoring, level one defendants (the best risks) on location monitoring were 112 percent more likely to fail than if they were not on this type of monitoring (VanNostrand & Keebler, 2009:32). The quick refrain from most pretrial services professionals is: Of course there are more violations, due to the technical violations being counted as failures. However, this analysis did not include technical violations; it included only failure-to-appear and rearrest violations. In addition, the finding is not limited to location monitoring; substance abuse testing and treatment defendants are 41 percent more likely to fail. There are similar results for third-party custodians and halfway house placements. On average defendants released to the alternatives to detention program who were lower risk, risk levels 1 and 2, were less likely to be successful pending trial, while defendants in the moderate to higher risk levels (risk levels 3, 4, & 5) were more likely to be successful if released to the alternatives to detention program (Van-Nostrand & Keebler, 2009:31). VanNostrand andKeebler establish, apparently for the first time with hard national pretrial services data, the risk principle in federal pretrial services, which states "that the intensity of the program should be modified to match the risk level of the defendant" (Dowden & Andrews, 2004:1).

Federal Risk Assessment

One of the major recommendations of the Office of Federal Detention Trustee research is that the pretrial services system should develop and implement an actuarial risk assessment tool. The Office of Probation and Pretrial Services hired a staff person proficient in the development of actuarial devices and ultimately developed the tool internally. The developed tool was piloted in several districts and the formal implementation of the tool began in January 2009. Currently there are 89 districts "live" using the tool on a majority of cases, 93 districts trained, and 93 with personnel certified in using the Pretrial Services Risk Assessment tool. National implementation was completed in all 93 districts by September 2011. Barly results from the implementation show that the tool increases officer recommendations in favor of release, which is the desired goal of the implementation. There has as yet been no identified impact from the tool on release rates.

The Pretrial Services Risk Assessment

tool was constructed using the same archival data employed in the Office of Federal Detention Trustee research. The PTRA tool is an objective, actuarial instrument that provides a consistent and valid method of predicting risk of failure-to-appear, new criminal arrest, and technical violations that lead to revocation while on pretrial release. The instrument contains 11 scored and 9 unscored items. The unscored items are for future revisions to the instrument, and this research addresses the issues raised by the unscored items. The unscored items are rated as either A or B and do not contribute to the current overall risk score. The scored items are given a number of points (0, 1, or 2). The points from the items are then added up to give an overall score. When administered correctly, the Pretrial Services Risk Assessment provides a score that allows for classification into a risk category. Those risk categories are then associated with rates of failure-to-appear, new criminal arrest, and technical violations leading to revocation.

When a defendant or material witness is arrested or summoned to appear before the court for an initial appearance, the magistrate judge typically requires a pretrial services report based on the investigation conducted by the pretrial services officer. The officer interviews the defendant to gather information for the report, the length of which varies somewhat, due to time constraints. The pretrial services report contains defendant case information, including residence, family ties, employment history, financial resources, health (including mental health and substance abuse histories), and criminal history. Based on this information, the officer will provide the court with an assessment of whether or not the defendant is likely to appear for court proceedings in the future or presents a danger to the community. Finally, the last section of the report provides the officer's recommendation to the court for the release or detention of the defendant. The recommendation should be based on the Pretrial Services Risk Assessment, although the officer can depart from the tool's recommendation after staffing the results with his or her supervisor.

The implementation of the tool has generated great debate over the finding, represented in the scores of "0" for defendants charged with violent offenses, that violent defendants in fact performed better than most other defendants in terms of rearrest, failure-to-appear, and technical violations leading to revocation of pretrial release in the construction research. The results found in the federal study are consistent with other similar find-

ings: "defendants charged with more serious offenses do not pose a high risk of rearrest pending trial" (Austin, Krisberg, & Litsky, 1984:30; VanNostrand & Keebler, 2009:21; Toborg, Yezer, Tseng, & Carpenter, 1984:56). However, this validation research further refines that initial finding, showing violent defendants failing at higher rates than other defendant offense categories.

To better assist pretrial services officers in identifying high-risk defendants, the AO chose to develop a risk assessment instrument tailored specifically to its population of defendants. In doing so the AO looked at two existing tools; one operational in the state of Virginia and one used in the District of Columbia. After reviewing them, the AO concluded that its population of defendants differed enough from that of other pretrial services populations (for example, only federal courts address immigration charges) to warrant development of a tool using federal data. The Pretrial Services Risk Assessment (PTRA) is an actuarial risk and needs assessment tool developed from data collected on federal defendants who started a term of supervision between October 1, 2000 and September 30, 2007. This tool is designed to identify and categorize cases by risk of failureto-appear, rearrest, and technical violations leading to revocation (FTA/NCA/Revocation).

Construction and Validation of the PTRA

Data

The archival data used to construct and validate the PTRA came from the Probation and Pretrial Services Automated Case Tracking System (PACTS).1 Criminal history records or rap sheets were used to identify any new arrest after the defendant's release., PACTS was the main source of data for scored elements on the PTRA; it included data on 565,178 defendants. The data was extracted from PACTS in June 2008 and consists of all persons charged with criminal offenses in the federal courts between October 1, 2001 and September 20, 2007 (FY 2001- FY 2007) who were processed by the federal pretrial services system. The prospective data for the re-validation was extracted from PACTS in June 2012 and consists of all persons charged with criminal offenses in the federal courts between October 1, 2010 and September 30, 2011 (FY 2011) who were processed by the federal pretrial services system and from the Electronic Reporting System (ERS), which officers use to complete the PTRA.

Data Elements

There are two sets of items included on the PTRA: scored and not scored. The first set of items are rated and scored and thus contribute to a defendant's risk score. Rated and scored items used to develop the PTRA were based on prior research by VanNostrand and the original construction research (Lowenkamp & Whetzel, 2009), and were available in PACTS. Using the extant research as a guide, available data elements models were constructed; the most predictive elements were ultimately included based solely on the data. Those elements are felony conviction (most predictive of available criminal history measures), pending felonies or misdemeanors, prior failures to appear, current charge, seriousness of current charge, employment, substance abuse, age, citizenship, education level, and home ownership. As a result of bivariate analyses, some interval and ratio variables were collapsed into ordinal measures. In the prior construction research, multivariate models and completeness of data were used to identify the most predictive and practical data elements to be included on the instrument.

The second set of data elements are rated but not scored and do not contribute to a defendant's risk score. These items were identified as potentially predictive by the Pretrial Services Work Group (PSWG). One additional rated but not scored item was added based on pretrial services officers' input on what data they felt strongly needed to be added; alcohol abuse. A total of 9 factors were identified as potential predictors and included on the assessment. These potential predictors were included as "test items" and the analysis determined that these items, for the most part, do not warrant becoming rated and scored PTRA items.²

Sample

That re-validation file contained 32,455 defendants for whom PTRAs have been completed in 2011, the first full year of operations. The total number of cases with PTRA completed is 32,475, and the number of

PACTS (Probation/Pretrial Services Automated Case Tracking System) is an electronic case management tool used by probation and pretrial services officers in all 94 federal districts to track federal defendants and offenders. At the end of each month, districts submit case data into a national repository that is accessible to the Administrative Office of the U.S. Courts (AO), Office of Probation and Pretrial Services.

³ This research presents results on the unscored or test items; however, policy decisions concerning ultimate changes to the PTRA will be determined by the appropriate group or committee, not the authors.

TABLE 1. Test Questions In Relation to FTA/NCA

(O)/csi(ion)		i jadiu šv		
	Yes		No	
		7%	À	%,
Current Alcohol	33/625	5.3	200/4450	4.5
laneign lies	\$\$\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex	9,3	116322/401.1101	21/1
Foreign Ties Who Contact with Ties	43/744	5.8	169/3719	4.5
tropolym Chirian	2/1/026	6,3	19665181	4.5
Passport	60/1547	3.9	170/3431	5.0
Genetian Ginemetal Interceses	7/4123	5.7	(U505///(@fG18)	(1,15)
Travelled Outside US	79/1928	4.1	148/3029	4.9
ត្រីឲ្យជម្រូក តែស្នាជា ចែក មេកោះទេ 🕸 អ៊ីនែកពេល	/ 13/000	7.0	2/30/2021	4.5

TABLE 2.Test Questions In Relation to FTA/NCA /Revocation

Quedion '		- Fallino	Notice of the last	
	.Yes		No	to Andrian engine
) fer	AW .		%.
Current Alcohol	132/625	21.1	597/4450	13,4
Rate(s) thes	3/24/216/5	9.3	(63x6/241) (10)	11545
Foreign Ties Who Contact with Ties	73/744	9.8	\$57/3719	15.0
Faichyn Chilicin	30/40/6	8.9	6550/45380	19.83
Passport	127/1547	8,2	581/3431	16,9.
દિઇ લી લા Tinandal linerasis	(2/1)2/3	(2) (3)	(39)14(18(013)	14.4
Travelled Outside US	189/1928	9.8	514/3029	17.0
Raigiga Univel Ear Brainigs & Plantance	2407/11/33	1(0.9)	7/13/4/9/41	44.74

TABLE 3.Descriptive Statistics for Criminal History Sub-score, Other Factors Sub-score, and Total PTRA Score

		(815-290)	\$10	ivalia:	Man C
Criminal History Score	5077	3,32	1:54	Ó	9
Other leador Score	310977	22,1852	17.522	(0)	167
PTRA Score	5077	6.17	2.46	0	14

PTRA cases opened and disposed of is 5,077. The cases were opened between October 1, 2010, and September 30, 2011. Given that PTRA was validated using archival data and officers have now completed assessments prospectively, it is important to ensure that the tool is still valid.

Findings

Table 1 displays the results of the test questions in relation to new criminal activity (NCA) and failure to appear (FTA), while Table 2 displays the results of the test questions

in relation to NCA/FTA/Revocation. Adding current alcohol abuse and the various measures of foreign ties to the risk score produced no increase in the predictive ability of the PTRA. Therefore, the authors recommend to the decision-making body that the nine unscored items not be added to the PTRA and the collection of those items be discontinued.

Table 3 presents descriptive statistics and total scores for the two instrument scales contained in the tool: Criminal History and Other.

Table 4 presents descriptive statistics and total scores for both outcomes contained in the

tool: FTA/NCA and FTA/NCA/Revocation. As the table shows, the majority of defendants released in the federal system are successful.

The next set of analyses focused on assessing the PTRA's predictive ability. AUC-ROC (Area under the Curve-Receiver Operating Characteristics)3 was chosen as the measure to assess prediction in large part because it is not impacted by base rates. Another convenient property of the AUC-ROC over a correlation coefficient is that AUC-ROC is a singular measure and does not have differing calculations depending on level of measurement of the variables being evaluated (Rice & Harris, 2005). Table 5 displays the AUC-ROC between risk scores and FTA/NCA/Violation revocation. As Table 5 shows, the AUC for the FTA/NCA outcomes only is .69. The AUC for the validation of all three outcome measures rose to .71. Based on these results, the PTRA appears to have very good predictive validity in terms of accurately classifying defendants' risk leyel.

Table 5 presents failure rates by risk category and associated AUC-ROC values. The results for the first four categories were expected based on the construction research. To put the AUC values into practical terms, we calculated the failure rates by two sets of outcome measures: FTA/NCA, the statutory standard, and FTA/NCA/Revocation, the standard preferred by judicial officers. These results are presented in Table 5. The uniform increase in failure rates across categories of risk and across the various samples continues to support the validity of the PTRA. However, in Category V the FTA/NCA rate was twice as high in the original sample as it was in this sample. All looks good, except that Category V might not really be different from Category IV, or perhaps we are supervising Category V differently now and driving their failure rates down. It is speculative now, it may hold true, as we do further analysis in the future.

In Table 6 we collapsed Category IV and Category V from Table 5 into one category and reran outcomes and AUC-ROC values. This was done for completeness, since the change in the failure rates could have resulted from a concerted effort to provide more services to the highest-risk defendants, thereby driving their failure rates down. Obviously

The AUC measures the probability that a score drawn at random from one sample or population (e.g., defendants with a re-arrest) is higher than that drawn at random from a second sample or population (e.g., defendants with no re-arrest). The AUC can range from .0 to 1.0 with .5 representing the value associated with chance prediction. Values equal to or greater than .70 are considered good.

TABLE 4.Descriptive Statistics for Outcomes

		accinelizations	ersemakou ratinga
FTA/NCA	5077	4.5	95.5
[FTFAY] N.C.A.K.E.V.orestilout :	507//	10.8	35.7.4

TABLE 5.
Failure rates by risk category and AUC-ROC values

RAEGATORIO			va prvýrte _r a	หลายเกมหนึ่งได้เกมสะ
Category I	1372	27.0	1.3	3.4
(California)	\:(e]e>	27/		
Category III	1401	27.6	6.7	20.5
(Garcillone IV	(ig):3.44			75. 700
Category V	200	3.9	11.6	31.5
AUC-ROC MERGINGON	1077		0.68	(6).7/1
AUC-ROC Total Score	5077		-0,69	0.71

TABLE 6.Failure rates by risk category and AUC-ROC values with Category IV and V collapsed

IR skiedenow			N MINNEY Y	A WALLANGE SARAWORE
Category I	1372	27.0	1.3	3.4
ileaterentille	5(2) 0(5)	2777		
Category III	1401	27.6	6.7	20.5
(Cartestern) IV.	giring and second			7424.303
AUC-ROE	50 <i>7.7</i>	NAME OF THE OWNER.	0.69	0.71

interpretation is key here, and if the plausible is true we should not collapse Category V into Category IV. Therefore, this is a significant decision. It should be noted that the reduction to four categories did not add to AUC-ROC values produced by the existing instrument, which is why we will continue to look at this in future research.

Discussion

As previously stated, the purpose of this article is threefold: (1) to present the methodology and results produced in the re-validation of the PTRA; (2) to discuss the implications of the research on the unscored items currently collected in the PTRA; and (3) to discuss future developments. Overall, the instrument as administered by officers does as well as the construction and validation samples. Even though the foreign ties items did not improve prediction, officers and the court still might want to know about the nature of foreign ties. The sample, though small, was fairly representative of the population served

and allowed for re-validation of the existing tool items, Thus the overall results have demonstrated that the PTRA provides adequate predictive validity.

The creation of the risk score and categories allowed for the re-validation of five risk categories: 1 through 5. Practically speaking, the instrument provided categorizations that are associated with the group failure rates that are differentiated and meaningful for meeting the risk principle.

Limitations and Future Research

Although this study was fairly comprehensive in scope, the dataset was small and thus may not be representative of the population served. In addition, there are a number of limitations and areas for future research that deserve mention. First, we have not investigated how scoring algorithms might be adjusted for each district. As with any measure, there is a distribution of AUC values when that test is calculated for each district. We did not generate analysis for individual districts

due to small samples of data at the district level. Subsequent analysis could focus on assessing AUC values between risk scores and NCA/FTA/Revocation to ensure appropriateness of fit at the district level.

A second limitation is that the data used in this research came from an administrative dataset. While it proved useful for our initial task of creating and validating a risk assessment instrument, it will be important to conduct similar validation analyses once we have an ample sample of defendants that were actually assessed using the assessment protocol.

The third limitation involves the nature of the outcome measure being predicted. In this research we focused exclusively on the likelihood of NCA measured by re-arrest and not the severity of the offense. We found it important to assess and determine the likelihoods of re-arrest as a first step in the assessment process, Because we do recognize that there is more than one dimension to an assessment in the criminal justice system, future analysis will focus on predicting the dangerousness of a defendant by trying to predict the severity and type of NCA.

Policy Implications

Notwithstanding the limitations discussed above, two major policy implications stem from this research. First, the federal pretrial services system now has a re-validated risk assessment tool for use on defendants under its jurisdiction. The instrument can be used to identify higher-risk defendants for enhanced services (see VanNostrand & Keebler, 2009) and also to reduce services to low-risk defendants, conserving those resources for higherrisk defendants. The second major policy implication is the apparent need to add dynamic factors. Data analyzed in this study focused on static factors associated with changes in NCA/ FTA/Revocation rates. Therefore, the addition of dynamic factors would seem to provide officers with an essential tool to monitor and reassess risk in a standardized way to ensure that supervision and services are having intended impacts. If intended impacts are not being achieved, then officers would be able to modify supervision services to reduce the risk and refine supervision methodologies.

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