





ADVANCING FROM THE "WHAT WORKS" TO "HOW TO MAKE IT WORK": APPLICATIONS OF IMPLEMENTATION SCIENCE TO JUSTICE SUPERVISION

Gina M. Vincent, PhD Associate Professor, Co-Director Law & Psychiatry Program University of Massachusetts Medical School

MacArthur Foundation



U.S. Juvenile Justice Systems Reform Models for Change Initiative (2006-2016) John D. and Catherine T. MacArthur Foundation



- -4 primary states
- -12 network states

Assisted by a "national resource bank" of technical assistance centers

National Youth Screening & Assessment Project (NYSAP)



## **Risk Assessment Instruments in Juvenile Justice**





Terrific idea! But is adoption of risk instruments actually leading to any change in the way youth are handled?



What is Implementation Science?

How Can This Apply to Our Work and Our Research in Forensic Settings?

 Example: Risk Assessment & Risk-Need-Responsivity in Juvenile Probation Studies

Three Key Recommendations for Researchers

# WHAT IS IMPLEMENTATION SCIENCE?

# What is Implementation Science?

- Implementation = a specified set of activities designed to put into practice an activity or program of known dimensions (Fixsen et al., 2005)
- Implementation science = research that supports the use of innovations; studies of how well a new practice or activity was implemented. Examples (Proctor et al., 2011):
  - Implementation outcomes acceptability, feasibility, implementation & intervention/ instrument fidelity, costs, & sustainability
  - Service outcomes (efficacy or impact)– effectiveness, efficiency, equity
  - Client outcomes (efficacy or impact) functioning, symptoms, satisfaction

**Implementation Frameworks:** Many exist



Active Implementation Frameworks Fixsen, Blasé, & Van Dyke (2019)

# **Foundational Issues**

It requires about 2 to 4 full years for adoption of a new practice to become fully operational and have an impact on the recipient of services (e.g., Barrett, Bradshaw, & Lewis-Palmer, 2008; Fixsen et al., 2005; Goldstein, 2011)

Training is necessary, but alone is insufficient. It increases knowledge but, in isolation, it does nothing to change practice.

Decades of evidence from studies in human service areas shows that only about 5-15% of attempts to use new innovations (or EBPs) will succeed in the absence of purposeful implementation supports.

## Active Implementation Frameworks

© Fixsen & Blase, 2008

### **Evidence-Based Practices [Quality, Sustainability]**



# HOW DO WE APPLY IT TO OUR WORK?

Example from Juvenile Justice Reform: Implementation of Risk/Needs Assessment and Risk-Need-Responsivity

# Recommendations For Juvenile Justice Reform & Preventing Youth Reoffending

National Research Council of the National Academy of Sciences (2013). Reforming Juvenile Justice: A Developmental Approach

Use structured risk and need assessment Instruments to identify low-risk youths who can be handled less formally in community-based settings, to match youths with specialized treatment, and to target more intensive and expensive interventions toward high-risk youths.



**Risk-Need-Responsivity** 

# Risk Assessment Must be Paired With Practices that Promote Risk-Needs-Responsivity (RNR)

2 Risk Principle

Match the
 intensity of the
 intervention with
 one's level of risk
 for re-offending

'How much to do'

Need Principle

What"

The

Target dynamic or changeable risk factors and only those factors (criminogenic needs) Responsivity Principle

Match the mode & strategies of services with the individual

"What to do"

'How to do it'

# Evidence-Based Practice: RNR Effect Sizes k > 370



# **IMPORTANCE OF QUALITY IMPLEMENTATION**

Risk Assessment in Juvenile Justice: A Guidebook for Implementation

Gina M. Vincent, Ph.D. Lance S. Goy, Ph.D. Thomas Geissa, Ph.D. National Youth Screening & Assessment Project **8 Steps to Implementation** 

- 1. Getting ready
- 2. Establish buy-in
- 3. Select tool
- 4. Develop policies
- 5. Training
- 6. Pilot test
- 7. Full implementation
- 8. Sustainability/Data

Vincent, Guy, & Grisso (2012) Funded by MacArthur Foundation





# Four Studies 5 States & 12 "Experimental" Jurisdictions MacArthur Foundation

 Risk/Needs Assessment in Juvenile Probation: Implementation Study (PI: Vincent, Guy, & Grisso) – LA & PA; Pre-post quasi-experimental design

### Guide Validation Studies

- Risk Assessment and Mental health Screening Among Youth (RAMSAY; MacArthur & OJJDP) - MS; Matched control group design
  - Guy, Perrault, Grisso, & Vincent (2015)
- Risk Assessment and Behavioral health Screening (RABS; MacArthur & OJJDP)
   AR & RI; Pre-post quasi-experimental design
  - Vincent, Perrault, & Grisso (2018)

#### Sustainability over 7-years

- Risk-Need-Responsivity Long-Term Sustainability and Cost-Effectiveness Study
  - PA & LA; Pre-post quasi-experimental design (OJJDP)
  - Vincent, Drawbridge, & Perrault (2020)

## **Implementation Process**





**RNR-Based policies &** case planning

**Implementation Process** 



**ModelstorChange** 

Policies & Procedures for Administration Integration into Electronic



RNR-related Policies for Use in **Disposition Recommendations** & Case Planning



Staff Training on instrument policy & procedures

#### Training in RNR & Case Planning Service Matrix

	Substance Abuse	Family Circumstances/ Parenting
Mob	Youth Substance Abuse Treatment (outpatient) Day Treatment	Active Parenting Love and Logic Parenting Psychological Assessment (Youth / Family Tragpy If Indicated)
H - G H	Day Treatment Youth Substance Abuse Treatment (intensive outpatient)	Youth Advocate Program Therapeutic Foster Care Haven House (6-18) (for foster kids)

#### **Disposition recs template**

ssessments & Disposition Recommendations									
VRY Assessment									
e above youth presently presents as the following risk for serious re-offending.									
Low Risk Moderate Risk High Risk									
e following needs were identified as significantly increasing the likelihood of re-offending if not addressed:									
Family/Parenting:									
Education/Employment:									
Emotional Stability:									
Substance Abuse:									
Disruptive Behaviors/Personality:									
Negative Peers:									
Attitudes/Orientation:									
Other:									
he youth has the following protective factors that may decrease the likelihood of re-offending: he youth lacks the following protective factors that may increase the likelihood of re-offending: diducian information regarding risk: shavioral Health Screening									
IAYSI-2 – screen for potential mental health problems. Youth 🛛 Did 🛄 Did Not score as a critical case.									
ecommendation: 🔲 a mental health evaluation 🔲 No further action									
isposition Recommendations:									
commended Supervision level: Low Moderate High									
Priority Need Areas Services/Action Recommended									

Disruptive Behaviors/Personality [ ] Risk Taking / Impulsivity (#18) [ ] Anger Management Problems (#20) [ ] Other			<ul> <li>[ ] Low Empathy / Remorse (#21)</li> <li>[ ] Attention Deficit/Hyperactivity</li> </ul>				
	Objective Goal	Service Provider	Service Type	Referral Date	Start Date	End Date	Participation (use rating scale above)
1							acute ubbite)

General Designs: Pre-Post Quasi-Experimental Design multiple probation offices per state, staggered start Propensity-matched



# IMPLEMENTATION LEVEL OUTCOMES

Providing Data from Risk-Needs Assessment in Juvenile Probation Study (1<sup>st</sup> Study; Vincent et al., 2016)

# Useability: Use of Risk Assessment in Decisions



## Adherence – Do They Follow RNR Procedures With Fidelity?

"What Information Best Informs Your <u>Service</u> Referrals?" Areas of Greatest Change (Qualitative)



## Change in Probation Officer Perceptions of Youth: What Percentage of Youth on Your Caseload to You Think Will Reoffend?



Vincent, Paiva-Salisbury, Cook, Guy, & Perrault (2012)

## Instrument Fidelity: PO Inter-rater Reliability & Validity

#### Predictive Validity over 602 days



# Adherence to Administering the Risk Assessment

LA	N Youth	RNA Completed	RNA Completed At Right Time	<b>Conclusion:</b> Need an adherend of at least 85% for			
Site 1	217	90.0%	82.5%				
Site 2	105	82.6%	57.3%	strong intervention			
Site 3	130	95.4%	80.0%	outcomes			
PA				(Vincent, Guy, Perra			
Site 1	232	86.0%	68.8%	Gershenson, 2016)			
Site 2	116	NA*	NA				
Site 3	231	37.0%	28.7%	Really poor			

#### usion:

an adherence rate east 85% for intervention-level nes

t, Guy, Perrault, & nson, 2016)

\*Partial implementation – YLS conducted with subset of youth

# IMPACTS: CHANGES IN SYSTEM & YOUTH OUTCOMES AFTER 1.5 YEARS

-Recidivism

- Disposition
- Out-of-home placement
- Supervision level
- Service allocation

# What Impacts Should We See?

### System Outcomes

- Decreased rates of formal processing
  Yes, but depends
- Improved resource allocation for supervision & services Yes
- Less youth in out-of-home placements
  Depends
- Matching services to needs (individualized case planning) Still working on it

### Youth Outcomes

Protecting public safety (e.g., recidivism)
 Inconsistent

(Viljoen, Cochrane, & Johnson, 2018; Vincent, Sullivan, et al., 2018)

## Were There Reductions in Rates of Severe Dispositions?

#### Pre-adjudication assessment



Every jurisdiction with good adherence to administration policy & other implementation-outcomes had a significant reduction in severity of dispositions (7 out of 12)

Post-adj/pre-disposition



2016; Vincent & Perrault, 2018)

## Were There Reductions in Use of Out-of-Home Placements?



Significant reductions **in only 2** out of 12 offices but decisions significantly related to risk

2 offices with initially low rated (around 20%) increased

Conclusion: Rate does not seem to get below 30% even when implementation was strong but LOS reduces

## Was There Improved Resource Allocation: Services?



# of services referred or received significantly related to risk level in all offices with good implementation (10 out of 13)

# Improved Resource Allocation: Amount of Supervision?



Reductions in the average amount of supervision contacts is a consistent result

# Recidivism Reduction (*New Petitions*) in Only 2 Out of 12 Jurisdictions



<u>Hypothesis:</u> It takes up to 3 years for these outcomes to be realized (Flores et al., 2006); requires strong matching, supervision, and quality services NO jurisdiction had an increase in recidivism

Secrets to Success in first 1.5 years:

- Strong court engagement
- Top-notch leadership & supervision
- Well resourced

# **Conclusions About Implementation of RNAs & RNR**

- Over the course of approximately 1.5 years:
  - Good implementers had at least 3 significant & positive system impacts
  - Poor implementers (4 sites) had little to no change
  - Significant recidivism reduction only happened this quickly for exceptional implementers

On average, what was the impact of implementing a risk assessment system?

- More youth stayed in the community with less supervision, less resources were being used, and there was no increased risk to public safety
- The nature of the impact depends on ....
  - Implementation quality
  - Site practices at baseline

# Biggest Barriers to Achieving Strong Implementation & Later Positive Impacts

- Lack of Buy-in from Key Stakeholders (Judges)-
  - Completion of RNA <u>Pre-</u>disposition is essential in many jurisdictions in the U.S.
- Poor implementation & Lack of Feasibility
  - Do not train staff on the risk assessment prior to creating an 'enabling' context for RNR (e.g., appropriate P&Ps, templates)
  - Alignment with data management systems essential
  - Systemic obstacles
- Must have strong supervisors and a coaching model
- Impacts to recidivism require more time & effective services

# THREE SUGGESTIONS FOR RESEARCHERS

## Researcher-Engaged Implementation Over 'Passive-Observer'

U.S. Department of Justice Office of Justice Programs Office of Juvenile Justice and Delinquer



December 2018

#### From the Administrator

Juvenile justice practitioners often use standardized risk and needs assessments to help gauge a youth's risk of reoffending and identify factors that, if addressed, can reduce the risk of recidivism. In addition, these professionals rely on assessment findings while they develop treatment and service plans to appropriately target a youth's individual needs and promote the best

# Bridging Research and Practice

A Handbook for Implementing Research-Informed Practices in Juvenile Probation

> Samantha Harvell, Teresa Derrick-Mills, Chloe Warnberg, Megan Russo, Constance Hull, Andreea Matei

With Mary K. Winkler, Hanna Love, Janeen Buck Willison, Akiva Liberman

September 2019

# Always Assess or Report the Implementation Approach Prior to Evaluating Impact

- Rather than say 'it doesn't work', ask 'why' and 'where' it doesn't work
  - Remember minimum 3 years from implementation to impact

#### SPECIAL ISSUE ARTICLE

#### WILEY

#### Introduction to this Special Issue on implementing evidence-based practices in forensic settings

#### Gina M. Vincent

Implementation Science & Practice Advances Center, Department of Psychiatry, University of Massachusetts Medical School, Worcester, Massachusetts, USA

#### Correspondence

Gina Vincent, University of Massachusetts Medical School, Worcester, MA, USA. Email: Gina.Vincent@umassmed.edu

#### 1 | INTRODUCTION

For decades, research related to forensic psychology, criminology and other areas of the justice system has made a significant and invaluable contribution to the practice of working with individuals who have come into contact with the law. This work has spanned all decision points in the criminal and juvenile justice systems, from various pretrial stages (e.g., how to evaluate a person's competency to stand trial; how to select a jury or to improve the memory of witnesses) to re-entry (e.g., release decisions and risk management in the community). The contributions have been numerous, including the creation of well-validated specialized assessment instruments for forensic dedsions (e.g., Douglas, Hart, Webster, & Belfrage, 2013; Rogers, Tillbrook, & Sewell, 2004), development and validation of approaches to case and risk management (e.g., risk-need-responsivity; Andrews & Bonta, 2010), and development or validation of evidence-based treatment models (see Blueprints for Healthy Youth Development, https://www.blueprintsprograms.org).

Where the field has not been so strong is in the study of effective implementation of these approaches. Implementation generally refers to a specified set of activities designed to put a practice or program into place (Fixsen, Naoom, Blasé, Friedman, & Wallace, 2005). Research has consistently shown that simply knowing "what works" is insufficient for achieving positive outcomes in the real world. The proper implementation of whatworks is critical. There are a number of factors that can influence use of an intervention in a real-world setting (Schillinger, 2010).

Implementation science developed as a method of putting an activity or program of known dimensions into practice (Fixsen et al., 2005). As a predicate, the activity or program – also referred to as an intervention or innovation – must be well-defined, scientifically sound, and shown to be effective in controlled research designs. At

#### CLINICAL PSYCHOLOGY SCIENCE AND PRACTICE

#### LITERATURE REVIEW

Risk assessments for violence and reoffending: Implementation and impact on risk management

#### Jodi L. Viljoen 💌, Gina M. Vincent

First published: 04 October 2020 | https://doi.org/10.1111/cpsp.12378

#### Read the full text >

📜 PDF 🔧 TOOLS 🛛 < SHARE

#### Abstract

Risk assessment instruments for violence and reoffending are widely used throughout the world. According to researchers, there are many different reasons to use these instruments; for instance, they are thought to reduce violence, save money, and improve treatment planning. In this article, we create a taxonomy to classify these risk management outcomes into agency, professional practice, and evaluee domains. Through a review of research, we show that instruments do not always achieve their goals. First, agencies encounter problems in successfully implementing instruments. Second, a lack of follow through can occur between risk assessments and the subsequent phases of risk management, such as case planning and intervention delivery. By drawing from the field of implementation science, we create an agenda for research. LOTS of Research on Effective Implementation of Risk Assessment is Needed!!!