

The CIT Model: Can We Call It Evidence-Based?

Amy C. Watson, Ph.D. & Michael T. Compton, M.D., M.P.H.

Overview

The CIT Model

Defining "Evidence-Based"

The Evidence Base to Date

Future Directions

Crisis Intervention Team Core Elements

The University of Memphis School of Urban Affairs and Public Policy Department of Criminology and Criminal Justice CIT Center

September, 2007

Randolph Dupont, PhD University of Memphis Major Sam Cochran, MS Memphis Police Services Sarah Pillsbury, MA University of Memphis'

Contributors

Ohio Mark Munetz, MD Summit County Alcohol, Drug Addiction and Mental Health Services Board Lt. Michael Woody (Ret.) Ohio Coordinating Center of Excellence in Criminal Justice Georgia

Georgia Bureau of Investigation David Lushbaugh

NAMI Georgia

NAMI Board of Directors

Nora Lott-Haynes, EdS NAMI Georgia Georgia Department of Education (ret.) Inspector Janet Oliva, PhD

Chairman, Virginia State MHMRSAS Board Isaac Van Patten, PhD Department of Criminal Justice, Radford University Amy Forsyth-Stephens, MSW Mental Health Association of the New River Valley

Florida

Michele Saunders, LCSW

Florida Partners in Crisis

Donald Turnbaugh

NAMI Pinellas County

Kentucky Jim Dailey

NAMI Kentucky

Virginia

Victoria Cochran, JD

NAMI Board of Directors

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THE CIT MODEL: What is it?

Model of Community Partnerships (LE/MH/Advocacy) that work to improve police response to persons with mental illnesses and build effective mental health crisis response systems.

- Community and cross agency/system collaboration
- Specialized training for select officers (40 hour CIT curriculum)
- Changes in policies and procedures
- Development of options for officers to link individuals in crisis to care

Is CIT Evidence –based? It depends on two things...

...what you mean by "evidencebased"?

...and for what outcomes?

What does it mean to be *evidence-based? A Process*

- <u>Biomedicine</u>: Approach to making medical practice more scientific through the use of the best available evidence from systematic research, with RCTs and meta- analyses/ systematic reviews as the "gold standard"
- <u>Mental health</u>: Process of clinical decision-making that utilizes clinical experience, critically reviewed external research, expert opinion, and client preferences
- <u>Policing</u>. Evidence-based policing is the use of the best available research on the outcomes of police work to implement guidelines and evaluate agencies, units, and officers. Put more simply, evidence-based policing uses research to guide practice and evaluate practitioners. It uses the best evidence to shape the best practice. (Sherman, 1998)

What does it mean to be **designated** as *evidence-based*?

- SAMHSA NREPP criteria
 - research has examined behavioral health outcomes of the intervention
 - evidence demonstrated in at least one study with experimental design (RCT) or strong quasi-experimental (with pre/post test and comparison group) design
 - Results published in peer-reviewed journal or documented in a comprehensive report
 - Systematic reviews in the absence of the above are not sufficient
- Center for Evidence-Based Policing
 - Supported by research that is at minimum "moderately rigorous" –non random comparison with extensive information on
 pretreatment equivalence of groups, comparison group was well-matched, 2) use of multivariate controls, or 3) use of rigorous time
 series analysis.

How strong is the evidence for CIT?

It depends on the outcome of interest...

Officer-level cognitive and attitudinal outcomes

- Studies using non-experimental and quasi-experimental designs support CIT training as effective for improving officer:
 - Knowledge
 - Attitudes
 - Desire for social distance
 - Self-efficacy for responding

Bahora, Hanafi, Chien & Compton, 2008 Compton, Esterberg, McGee, Kotwicki & Oliva, 2006 Compton et al 2014a Ellis, 2014 Kubiak et al 2017

Officer-level behavioral outcomes

Non-randomized studies with relatively strong comparisons groups

- Use of force preferences
- Endorsement of effectiveness for de-escalation skills and referral decisions
 - Vignette studies comparing CIT and non-CIT officers (Compton et al , 2011; Compton et al 2014a)
- Use of force in encounters
- Call resolution (MH transport/linkage, arrest, resolve on scene)
 - Studies of mental health encounters comparing CIT and non-CIT officers(Compton et al, 2014b; Watson et al, 2010, 2011; Morabito et al, 2012)

Pre – Post CIT Implementation

- Increased Police Transports to Triage Center-
 - (Kubiak et al 2017)

More mental health calls identified

Increased transports to MH treatment

Proportion transports voluntary

No change in arrest rates

• (Teller et al 2006)

Benefits of Self-Selection/Volunte ering for CIT Two linked studies, (Compton et al 2017) compared officers that volunteered for CIT training to those that were "voluntold"

Study one examined differences on knowledge, attitudes, and skills

Study two examined CIT trained officers' behaviors in actual encounters Officers that volunteered had better scores on measures of attitudes, stigma, self efficacy, de-escalation skills and referral decisions

While volunteered officers were more likely to use some form of physical force,* when they did so, they were more likely to transport or refer to mental health services and less likely to arrest.

Note, use of handcuffs was included in use of force

Subject, Agency and Community Level Outcomes

SUBJECT:

SAMHSA Diversion study (Broner et al, 2004) Quasi-experimental study of diversion models including CIT

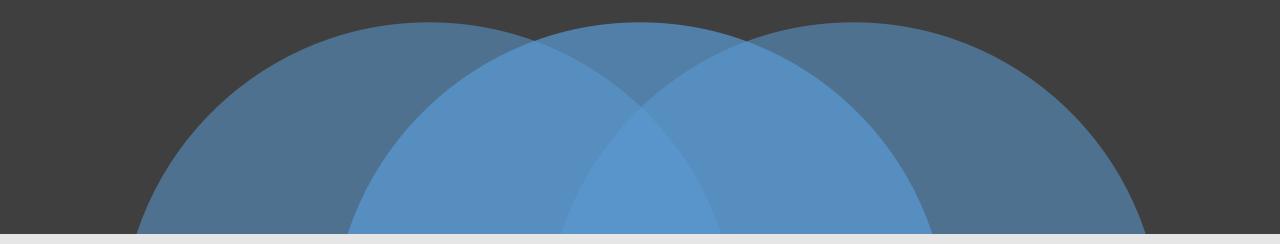
- Jail diversion by police increased odds of receiving mental health services at 3 and 12 month follow-up
- Diverted individuals at one of the CIT sites experienced reductions in symptoms at 3 month follow-up

AGENCY:

- Confidence in response
 - Borum and colleagues (1998) found greater confidence in mental health response among officers in agencies using the CIT model compared to other models of MH response.
- Efficiency
 - Dupont & Cochran (2000) reported reduced time per call following CIT implementation

COMMUNITY

- Cost Savings
 - El-Mallakh and colleagues (2014)reported cost savings from deferred hospital and jail costs



So, does the evidence support CIT as an EBP?



CIT and EBP as Designation

- The evidence supports CIT training as an EBP for improving officers' knowledge, attitudes, self-efficacy, and behavioral intentions
- Studies with strong comparison groups suggest CIT/CIT training is effective for impacting officer behavior (use of force, arrest, mental health linkage).
- Evidence that model implementation impacts transport/linkage outcomes-(including interrupted time-series design)
- Existing evidence for call subject, organizational, and community outcomes is limited.

CIT and EBP as process

Directions for future research

- Need for a CIT Model Fidelity Measure
- Examination of subject-level outcomes
- Examination of system- and population-level outcomes



Thank you!

Discussion & Questions