

Implementation of Evidence Based Practices: Learning from Clinical Trials

COCE/COSIG Workgroup

May 3, 2007

Joseph Guydish PhD, Sarah Turcotte Manser MA,
Martha A. Jessup RN PhD, Barbara Tajima EdM, and
James L. Sorensen, PhD

Institute for Health Policy Studies, and Department of
Psychiatry, University of California,
San Francisco

This work was supported by National Institute on Drug Abuse (R01 DA-14470), by the California-Arizona research node of the NIDA Clinical Trials Network (U10 DA-105815), and by the NIDA San Francisco Treatment Research Center (P50 DA-09253)

Clinical Trials Network Background

- 1998, IOM Report: *Bridging the Gap Between Practice and Research: Forging Partnerships with Community-based Drug and Alcohol Treatment.*
- 1999, NIDA: improve the drug addiction treatment through science: CTN RFA.

Mission of CTN

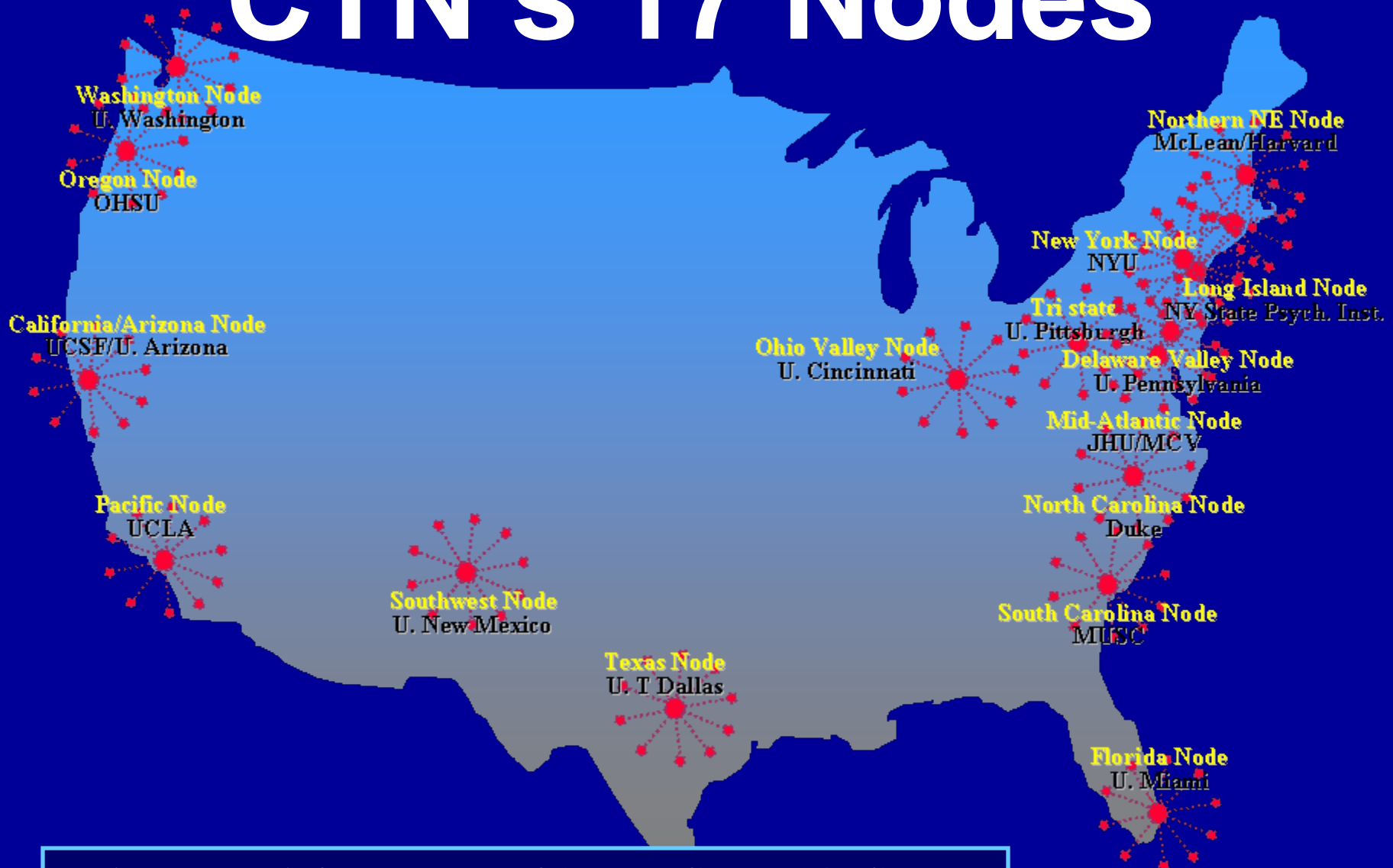
*To Improve Drug Abuse Treatment
Throughout the Nation...*

*Using **SCIENCE** as the Vehicle*

Clinical Trials Network Goals

- ❖ *To conduct community-based clinical studies of promising therapies for drug addiction, and*
- ❖ *To ensure the timely transfer of research results to physicians, providers and their patients*

CTN's 17 Nodes

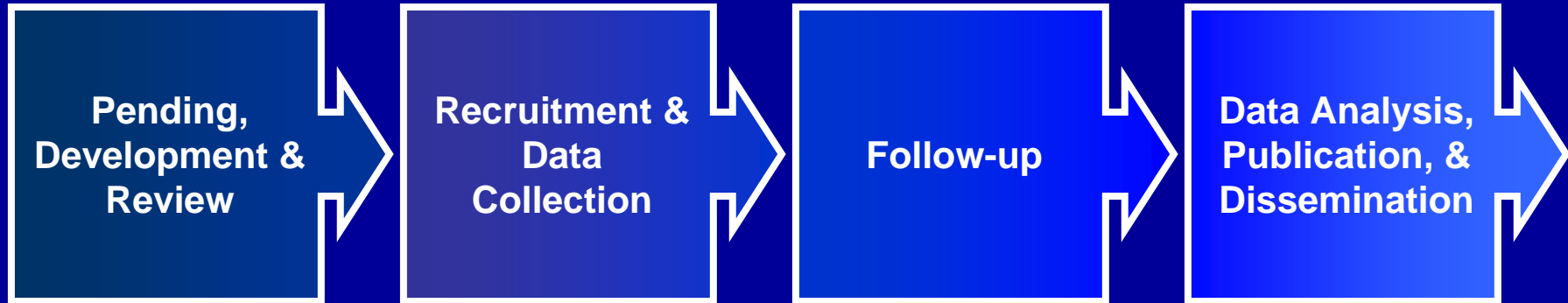


A research infrastructure of 17 RRTCs and 240 CTPs
across 34 States and Puerto Rico

CTN Research Portfolio

- **Large, Multi-Site Randomized Controlled Clinical Trials**
 - Complex undertakings
 - Uniform scientific and procedural standards
 - Community treatment settings, often new to research
- **Diverse Research Areas**
 - Medications, behavioral therapies, services, surveys, HIV prevention, etc...

CTN Trials (1999-now)



CTN 22
CTN 23
CTN 24
CTN 25
CTN 26
CTN 31
CTN 32

CTN 14
CTN 27
CTN 28
CTN 29
CTN 30

CTN 10
CTN 15

CTN 01 *CTN 11*
CTN 02 *CTN 12*
CTN 03 *CTN 13*
CTN 04 *CTN 16*
CTN 05 *CTN 17*
CTN 06 *CTN 18*
CTN 07 *CTN 19*
CTN 08 *CTN 20*
CTN 09 *CTN 21*

Medical Interventions: 9
Behavioral Interventions: 11
HIV/HCV Interventions: 4
Other Interventions: 3

Carroll, K.M, Ball, S.A., Nich, C. et al. (2006). Motivational interviewing to improve treatment engagement and outcomes in individuals seeking treatment for substance abuse: A multisite effectiveness study. Drug and Alcohol Dependence, 81, 301-312.

- CTN 0005
- Incorporate MI into initial evaluation session.
- 423 substance abusing persons in 5 OP programs
- RA: Standard intake or Standard intake + MI.
- Measures: Retention, days substance use at 1 & 3 mo. follow up.
- MI had more sessions completed (5 vs. 4) and more were in tx (84% v. 75%) at 1 mo.
- No difference in SA at 1 or 3 mo. No difference in retention at 3 mo.

Aims of Integrating Multi-Assessment Protocols into Practice (MAP)

Qualitative study of adoption of psychosocial interventions in the context of a multi-site clinical trial structure

- Process of Adoption
- Extent of Adoption

MAP Study

Two Phases:

- **Methamphetamine Treatment Project (MTP)**
CSAT, 8 Sites, Matrix Intervention
- **CTN MI/MET Application**
**NIDA, 5 Sites, Motivational Interviewing
and Motivational Enhancement Therapy**

Methamphetamine Treatment Project (n=42)

| | |
|-----------------------------|----|
| Intervention Designer | 1 |
| Clinical Trial Funder | 2 |
| Steering Committee Member | 3 |
| Coordinating Center | 4 |
| Site Principal Investigator | 7 |
| Site Evaluator | 5 |
| Clinic Director | 6 |
| Clinical Staff | 14 |

Interviews were completed 2-12 months after treatment phase completion

Motivational Interviewing/Motivational Enhancement Therapy (n=29)

| | |
|--------------------------|----|
| Intervention Designer | 1 |
| Clinical Trial Funder | 1 |
| Protocol Team Leaders | 3 |
| Node Level Investigators | 7* |
| Clinic Level Supervisor | 2† |
| Clinic Director | 5 |
| Clinical Staff | 10 |

Interviews were completed 3-12 months after treatment phase completion

* Includes project management, data management, and training activities

† One clinic level supervisor could not be located and two also had the role of clinic director.

Data Analysis

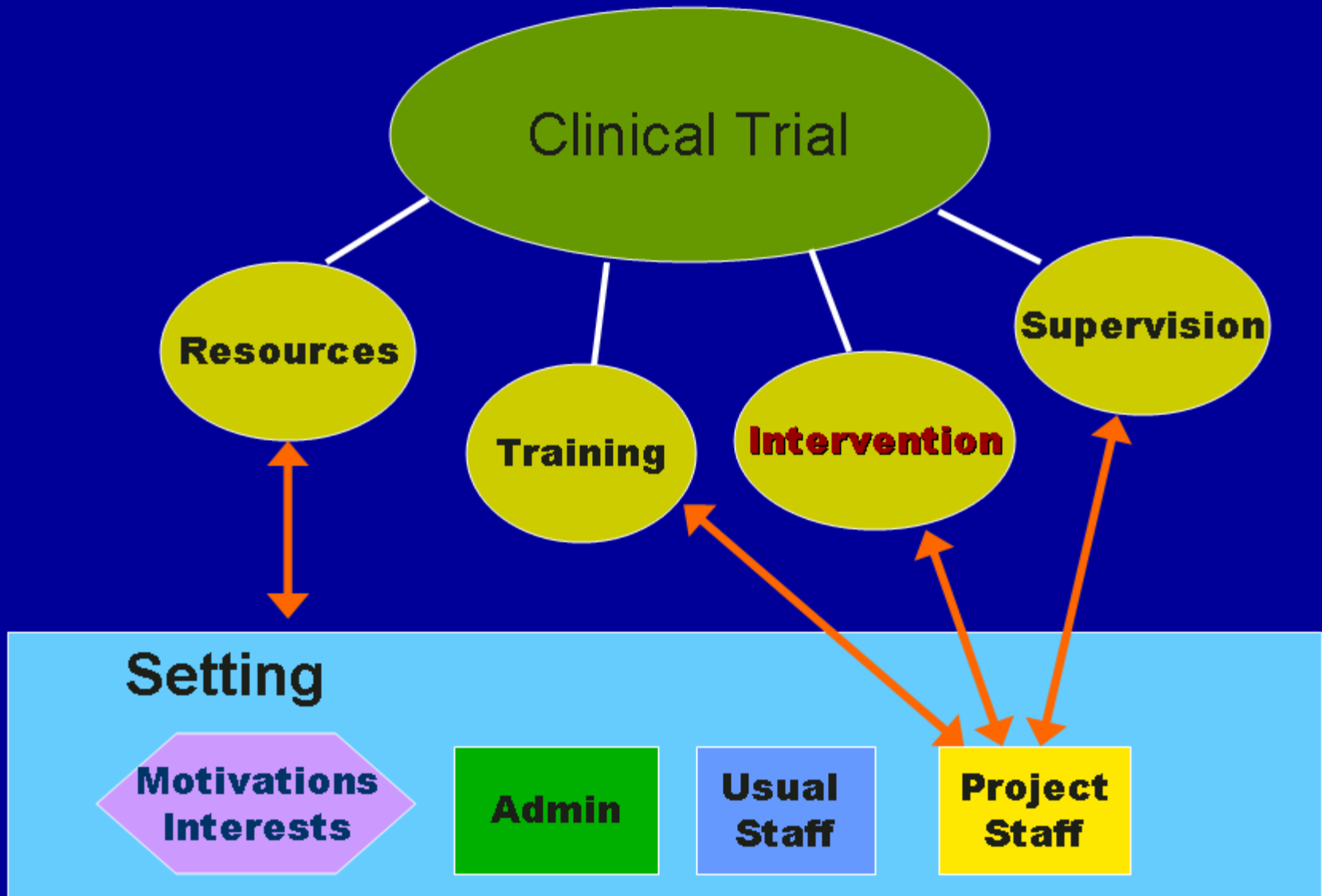
- Organizational functioning
- Theoretical framework informed key domains
- Closed coding developed using analytic categories
- Concurrent data collection and analysis
- Analytic memos, team discussion, and on-going comparison of the data

Adoption at MI/MET and MTP Clinic Sites (n=13)

| | NA * | No Adoption | Intention To Adopt | Toolbox Adoption | Partial Adoption | Adoption | Re-invention, Adaptation |
|--------|--------|-------------|--------------------|------------------|------------------|----------|--------------------------|
| MTP | | Site 1 | | | | | |
| | | | | Site 2 | | | |
| | Site 3 | | | | | | |
| | | | | | | | |
| | Site 5 | | | | | | |
| | | Site 6 | | | | | |
| | | Site 7 | | | | | |
| | | Site 8 | | | | | |
| MI/MET | | | | | | Site 1 | |
| | | | | Site 2 | | | |
| | | | Site 3 | | | | |
| | | Site 4 | | | | | |
| | | | | | | Site 5 | |

* No Opportunity to Adopt

Spaceship RCT



A Range of Adoption Outcomes

| | | | | | |
|------------------------|-----------------------------------|------------------------------|-----------------------------|-----------------|-------------------------------------|
| No Adoption | Intention To Adopt | Tool box Adoption | Partial Adoption | Adoption | Re-invention, Adaptation |
|------------------------|-----------------------------------|------------------------------|-----------------------------|-----------------|-------------------------------------|

Strategies to Support Adoption

Plan for Adoption

...the simple truth is that there wasn't a whole lot of thought in the beginning...the presumption has been, "We'll find truth out there, and we'll publish the truth...and something will magically happen, and the truth will be used." I'm being sarcastic, obviously...there still isn't a plan for "once we find out what works, how do we put it into better practice?"

MTP Elite

Train Senior Staff to Deliver Intervention

...you staff the research study with other people that come in ...the grant ends, and they go away. ...They as practitioners may take ... what they learned in here...off someplace else...

MTP Site Principal Investigator

Use a Regional Training Model

[William Miller] has been doing this motivational interviewing network of trainer thing for years and years. ... once a year he offers this big training of trainers... it's a world-wide network. So, being able to tap into that made a huge difference... in terms of ... sustainability... and then that trainer was available to train the... supervisor. Because we also wanted some durability of the training- we wanted durability of resources... the idea [is] that it's a model that builds in sustainability if you've got somebody there who can supervise the treatment ...

MI/MET Elite

Use a Local Supervision Model

But it's not at all a foregone conclusion that the practice continues after the trial is over. And how to help that happen, I think, is the better question. What do we need to do to help therapists, both those who've been therapists in trials, and those who haven't. How to help them to acquire this and to actually use it reliably in their own practice. And - feedback and supervision or coaching, I think, are two obvious elements that need to be there.

How is Adoption Measured ?

You never really know how people practice, when they're alone in a room.

Clinic Director

And at times, they may forget that that's a tool that they have ... I hope when you talk to them, that the MI counselors are gonna say, "Yeah, that was a good thing for me. I got a lot out of that, and I use it." ... Do I absolutely know that?

Clinical Supervisor

MET or Not MET?

I tried to use [MET] in the groups, too. And it worked really well... I think the clients ... gave better responses to questions ... Particularly when I repeated back what they had said. Like, ... if I said, well, how long has it been since you last used? Well, I used maybe a week ago... Oh, okay. Only about a week ago. Do you think you could do a little bit better the next time? Do you think maybe you can go another week or something? ... Why don't you see if you can go for two weeks...

Counselor

Conclusions

Post clinical trials rate of adoption is low

Need infrastructure to support adoption

Determine what kind of implementation is wanted (toolbox, partial, full, adaptation)

Determine method to measure adoption