

Main findings from the Substance Abuse Treatment to HIV Care (SAT2HIV) Project: A type 2 effectiveness-implementation hybrid trial

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Funding provided by the National Institute on Drug Abuse
(NIDA; R01-DA038146; PI: Garner)



The Problem: Integrating HIV services with other health services

National and international issues



Costs and efficiency of integrating HIV/AIDS services with other health services: a systematic review of evidence and experience

Sedona Sweeney,¹ Carol Dayo Obure,¹ Claudia B Maier,² Robert Greener,² Karl Dehne,² Anna Vassall¹

ABSTRACT

Objectives To review the literature on the potential efficiency gains of integrating HIV services with other health services.

Design Systematic literature review. Search of electronic databases, manual searching and snowball sampling. Studies that presented results on cost, efficiency or cost-effectiveness of integrated HIV services were included, focusing on low- and middle-income countries. Evidence was analysed and synthesised through a narrative approach and the quality of studies assessed.

Results Of 666 citations retrieved, 46 were included (36 peer reviewed and 11 from grey literature). A range of integrated HIV services were found to be cost-effective compared with 'do-nothing' alternatives, including HIV services integrated into sexual and reproductive health services, integrated tuberculosis/HIV services and HIV services integrated into primary healthcare. The cost of integrated HIV counselling and testing is likely to be lower than that of stand-alone counselling and testing provision; however, evidence is limited on the comparative costs of other services, particularly HIV care and treatment. There is also little known about the most efficient model of integration, the efficiency gain from integration beyond the service level and any economic benefit to HIV service users.

Conclusions In the context of increasing political commitment and previous reviews suggesting a strong public health argument for the integration of HIV services, the authors found the evidence on efficiency broadly supports further efforts to integrate HIV services. However, key evidence gaps remain, and there is an urgent need for further research in this area.

INTRODUCTION

Integration is a growing priority in the context of the AIDS response. HIV/AIDS is intrinsically linked to many other health problems. Integration has the potential to improve the quality and continuity of care for those living with HIV or bring HIV services to those who would otherwise not have access to them.^{1–3} For some interventions, such as prevention of mother-to-child transmission of HIV (PMTCT) or prevention and treatment of tuberculosis (TB) co-infection, integration is clinically essential. The integration of HIV services is supported by a wide range of evidence on its clinical and public health benefit.^{4–7} These highlight its benefits to patients with co-morbidities, benefits in

terms of continuity of care and increased access to HIV services. It has therefore been called for in a number of global policies and high-level position papers, most recently in the 2011 UN Declaration on HIV/AIDS.⁸ It is also commonly assumed that integration can improve programme efficiency.^{9–10} This is of particular interest in the current economic climate, as many countries are seeking to rationalise their health-related expenditure. However, to date, the evidence base to support this assertion remains unclear, despite the numerous reviews that focus on HIV integration more generally.^{11–18} This paper therefore summarises the current evidence on the impact of integration of HIV services on the efficiency of health services, focusing on low- and middle-income countries.

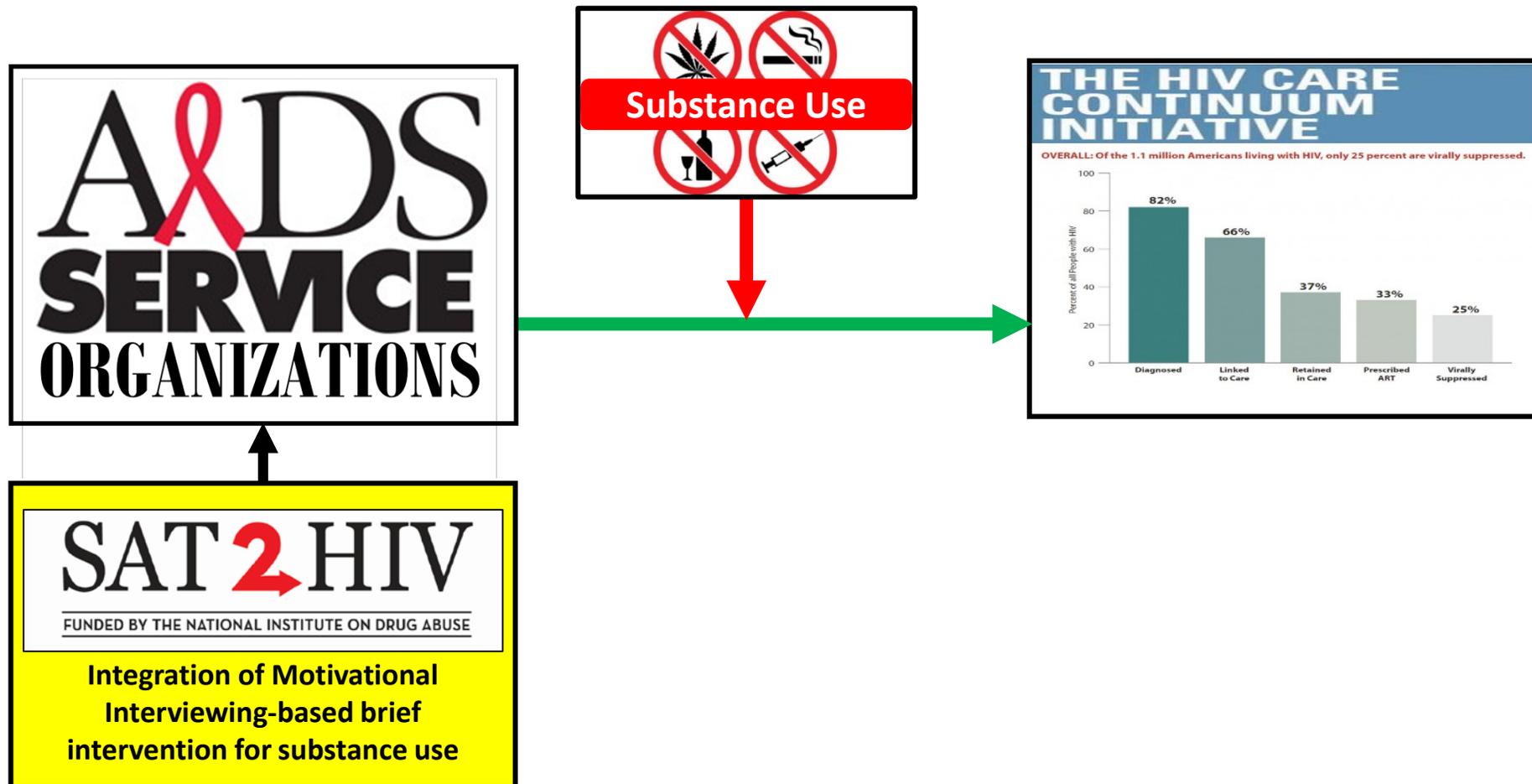
Integration has been approached differently in a wide variety of settings, making the concept of integration difficult to tie down. Although there has been some consensus recently in the field of sexual and reproductive health (SRH) on terminology,¹⁹ there remain several differing discourses on integration.^{12–20–23} The most common understanding relates to horizontal integration or integration at the point of service delivery; this can range from structured referrals to physical incorporation providing a one-stop approach.²¹ Integration can also be seen as part of a wider system of co-ordination at the policy and planning, human resources and financing levels, sometimes referred as linkages.¹⁹ For the purposes of this review, we use the UNAIDS definition of programme integration: 'joining together different kinds of services or operational programmes in order to maximize outcomes, e.g. by organizing referrals from one service to another or offering one-stop comprehensive and integrated services'.²⁰ This includes services from a singular provider and from separate providers (within one site) where there is a clearly functional referral system.

Economic theory suggests several potential efficiency advantages at various levels of a health system arising from the integration of HIV and other health services.^{15–24} Integration has the potential to improve both technical efficiency (providing services or producing outputs at the lowest cost) and allocative efficiency (achieving health outcomes at a low cost). Technical efficiency focuses on using the right mix of resources to produce health services and can be assessed by measuring the unit cost of HIV services. Allocative efficiency is also concerned with whether the right

“In summary, given the existing evidence that largely supports HIV integration from a public health and clinical perspective, the findings of this review support further efforts to integrate. However, significant evidence gaps remain. Unfortunately, few of the studies found adequately address the central questions currently concerning many programme managers at this moment in time: **not whether to integrate, but when to, how to, and which model is most efficient in which setting?**”

The Setting: Community-based AIDS Service Organizations (ASOs)

Substance use can negatively impact
ASOs ability to achieve goals of the
HIV Care Continuum



The Substance Abuse Treatment to HIV Care (SAT2HIV) Project: A *doubly randomized* type 2 effectiveness-implementation hybrid trial

Garner et al. *Addict Sci Clin Pract* (2017) 12:31
DOI 10.1186/s13722-017-0095-8

Addiction Science &
Clinical Practice

STUDY PROTOCOL

Open Access



Testing the effectiveness of a motivational interviewing-based brief intervention for substance use as an adjunct to usual care in community-based AIDS service organizations: study protocol for a multisite randomized controlled trial

Bryan R. Garner^{1*}, Heather J. Gotham², Stephen J. Tueller¹, Elizabeth L. Ball¹, David Kaiser¹, Patricia Stilen², Kathryn Speck³, Denna Vandersloot⁴, Traci R. Rieckmann⁵, Michael Chaple⁶, Erika G. Martin^{7,8} and Steve Martino⁹

Garner, B. R., Gotham, H. J., Tueller, S. J., Ball, E. L., Kaiser, D., Stilen, P., ... Martino, S. (2018). Testing the effectiveness of a motivational interviewing-based brief intervention for substance use as an adjunct to usual care in community-based AIDS service organizations: study protocol for a multisite randomized controlled trial. *Addiction Science & Clinical Practice*, 13, 9.

Garner et al. *Addict Sci Clin Pract* (2017) 12:32
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Addiction Science &
Clinical Practice

STUDY PROTOCOL

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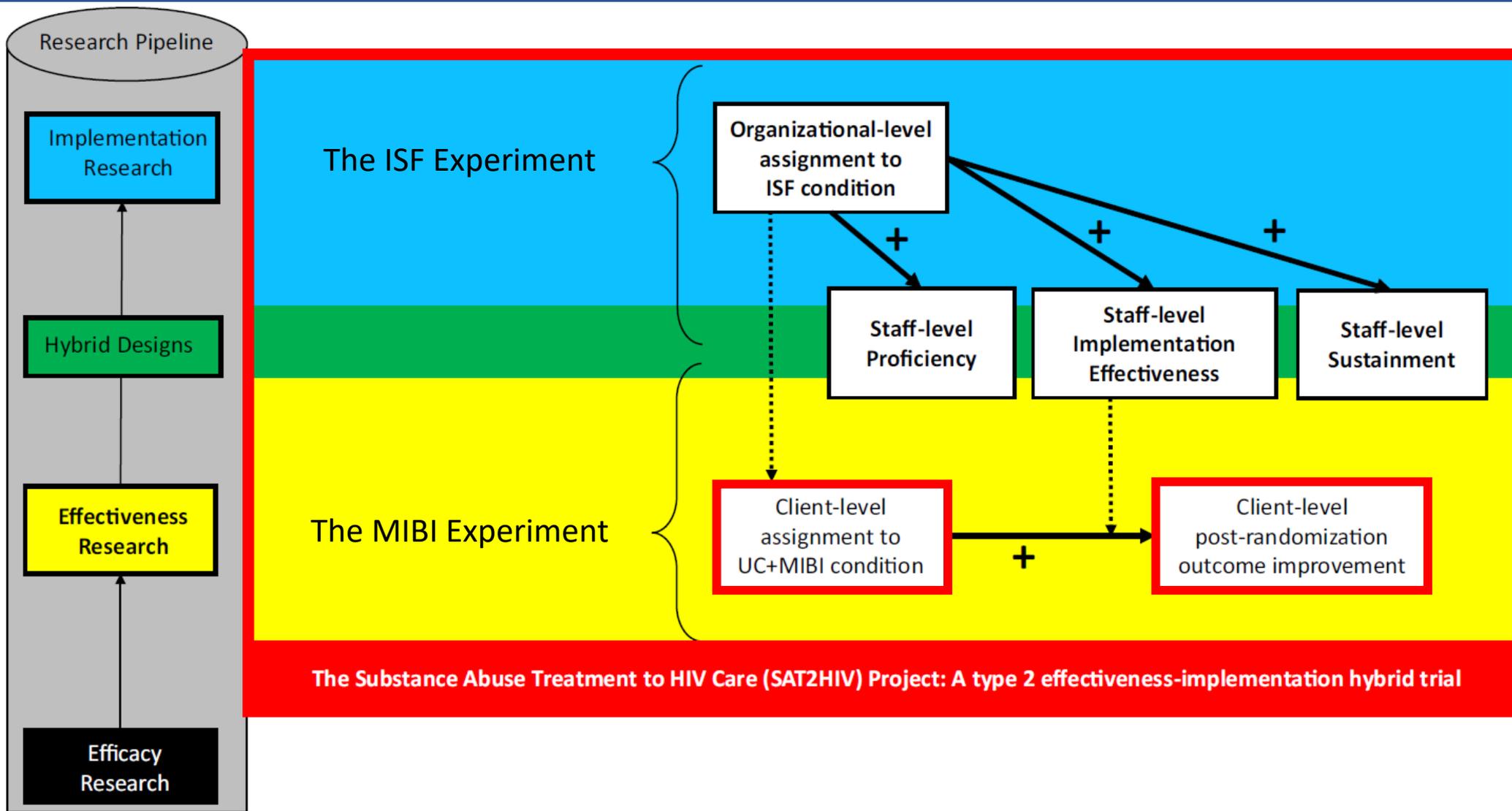
Testing the implementation and sustainment facilitation (ISF) strategy as an effective adjunct to the Addiction Technology Transfer Center (ATTC) strategy: study protocol for a cluster randomized trial

Bryan R. Garner^{1*}, Mark Zehner², Mathew R. Roosa³, Steve Martino⁴, Heather J. Gotham⁵, Elizabeth L. Ball¹, Patricia Stilen⁵, Kathryn Speck⁶, Denna Vandersloot⁷, Traci R. Rieckmann⁸, Michael Chaple⁹, Erika G. Martin^{10,11}, David Kaiser¹ and James H. Ford II²

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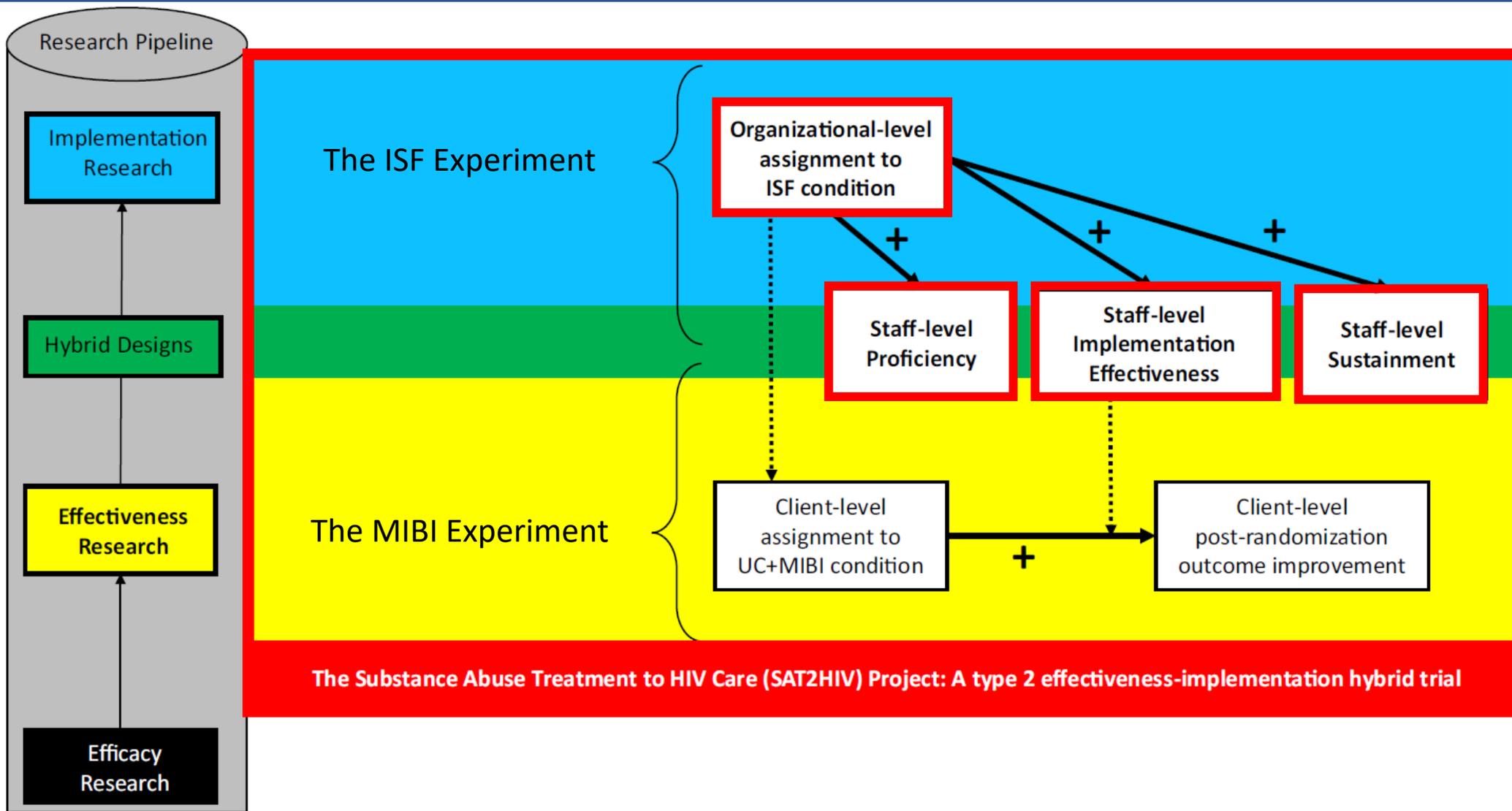
The Method:

A doubly randomized 39-site type 2 effectiveness-implementation hybrid trial



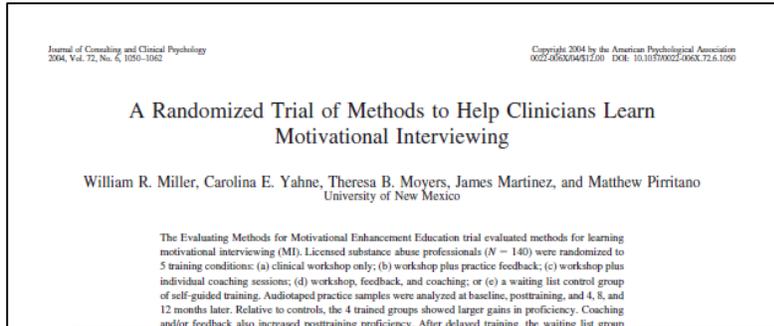
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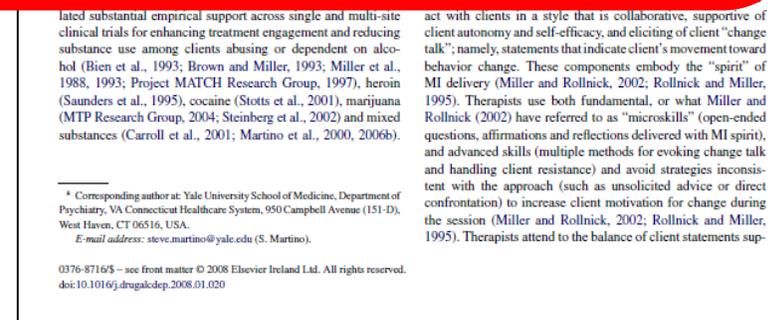
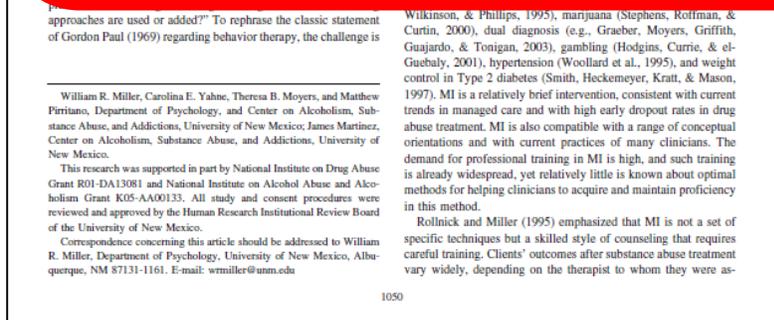
Staff-level Proficiency

(Miller et al., 2004; Martino et al. 2008)



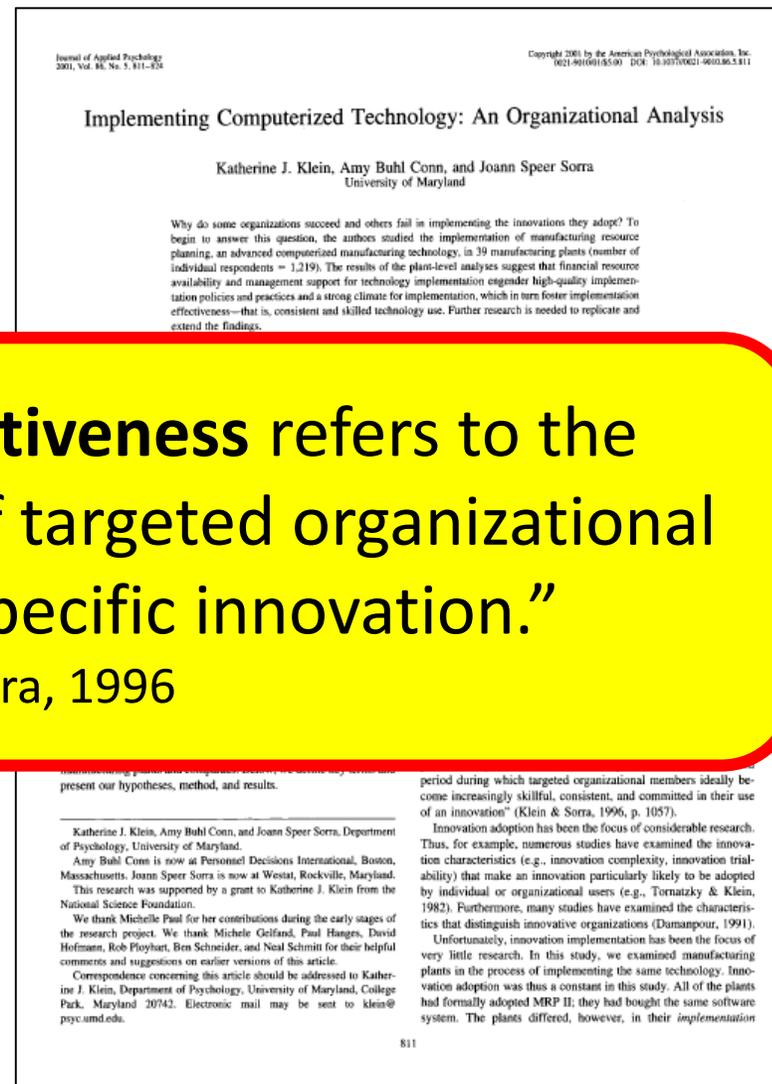
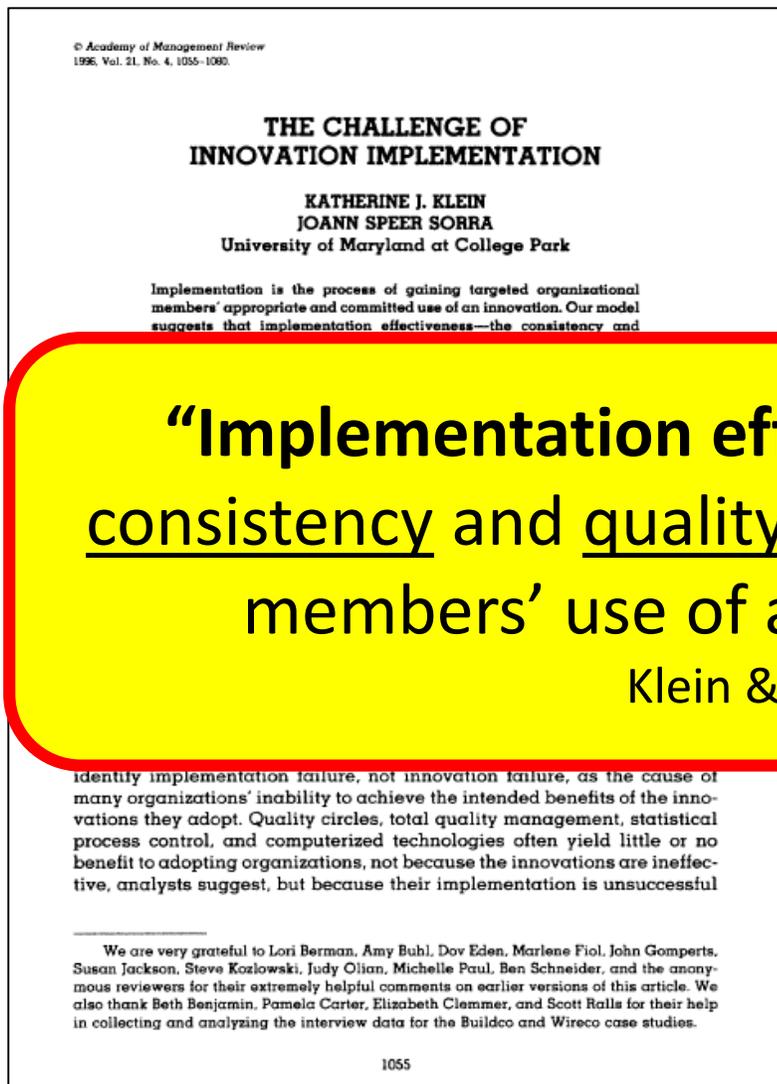
Proficiency demonstrated when “at least half of the MI-consistent items rated average or above in terms of adherence and competence.”

Martino et al., 2008



Staff-level Implementation Effectiveness

(Klein & Sorra, 1996; Klein, Conn, & Sorra, 2001)



“Implementation effectiveness refers to the consistency and quality of targeted organizational members’ use of a specific innovation.”

Klein & Sorra, 1996

Staff-level of Sustainment

(Aarons et al., 2011; Hunter et al., 2014)

Adm Policy Ment Health (2011) 38:4–23
DOI 10.1007/s10488-010-0327-7

ORIGINAL PAPER

Advancing a Conceptual Model of Evidence-Based Practice Implementation in Public Service Sectors

Gregory A. Aarons · Michael Hurlburt · Sarah McCue Horwitz

Published online: 14 December 2010
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Abstract
This article presents a conceptual model of evidence-based practice (EBP) implementation in public service sectors. The model is based on the premise that EBP implementation is a process that involves the identification, adaptation, and implementation of evidence-based practices (EBPs) in public service sectors. The model is based on the premise that EBP implementation is a process that involves the identification, adaptation, and implementation of evidence-based practices (EBPs) in public service sectors. The model is based on the premise that EBP implementation is a process that involves the identification, adaptation, and implementation of evidence-based practices (EBPs) in public service sectors.

Keywords
Evidence-based practice · Implementation · Public service sectors · Mental health · Substance use disorders

Background
Numerous interventions for adolescent substance use disorders (SUDs) have been developed, tested and supported by empirical evidence, yet of the two million 12- to 17-year-olds in need of SUD treatment, only about 8% actually receive it [1]. Providing high quality care to those youth who access addiction treatment can mitigate the adverse consequences of substance use, including both short and long-term violence, accidents, disease, and criminal behavior [1,2]. Ensuring the provision of quality care also can bolster community confidence in treatment: this, in turn, may lead more families, courts and schools to refer youth to treatment and help ensure that adolescents in need of care receive it.

One strategy policymakers use to ensure high quality treatment is to offer discretionary monies that encourage community-based programs to adopt treatment protocols deemed efficacious in experimental settings (*i.e.*, evidence-based treatments or EBTs). For example, government agencies such as the Substance Abuse and Mental Health Services Administration (SAMHSA) have offered discretionary grant funding in order to help facilitate EBT implementation. In one of the largest such efforts to date, the SAMHSA's Center for Substance Abuse Treatment (CSAT) provided over 80 million dollars to

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Springer

Hunter et al. *Implementation Science* 2014, 9:104
<http://www.implementationscience.com/content/9/1/104>

IMPLEMENTATION SCIENCE

STUDY PROTOCOL **Open Access**

Examining the sustainment of the Adolescent-Community Reinforcement Approach in community addiction treatment settings: protocol for a longitudinal mixed method study

Sarah B Hunter^{1*}, Lynsay Ayer², Bing Han¹, Bryan R Garner³ and Susan H Godley³

Background
Numerous interventions for adolescent substance use disorders (SUDs) have been developed, tested and supported by empirical evidence, yet of the two million 12- to 17-year-olds in need of SUD treatment, only about 8% actually receive it [1]. Providing high quality care to those youth who access addiction treatment can mitigate the adverse consequences of substance use, including both short and long-term violence, accidents, disease, and criminal behavior [1,2]. Ensuring the provision of quality care also can bolster community confidence in treatment: this, in turn, may lead more families, courts and schools to refer youth to treatment and help ensure that adolescents in need of care receive it.

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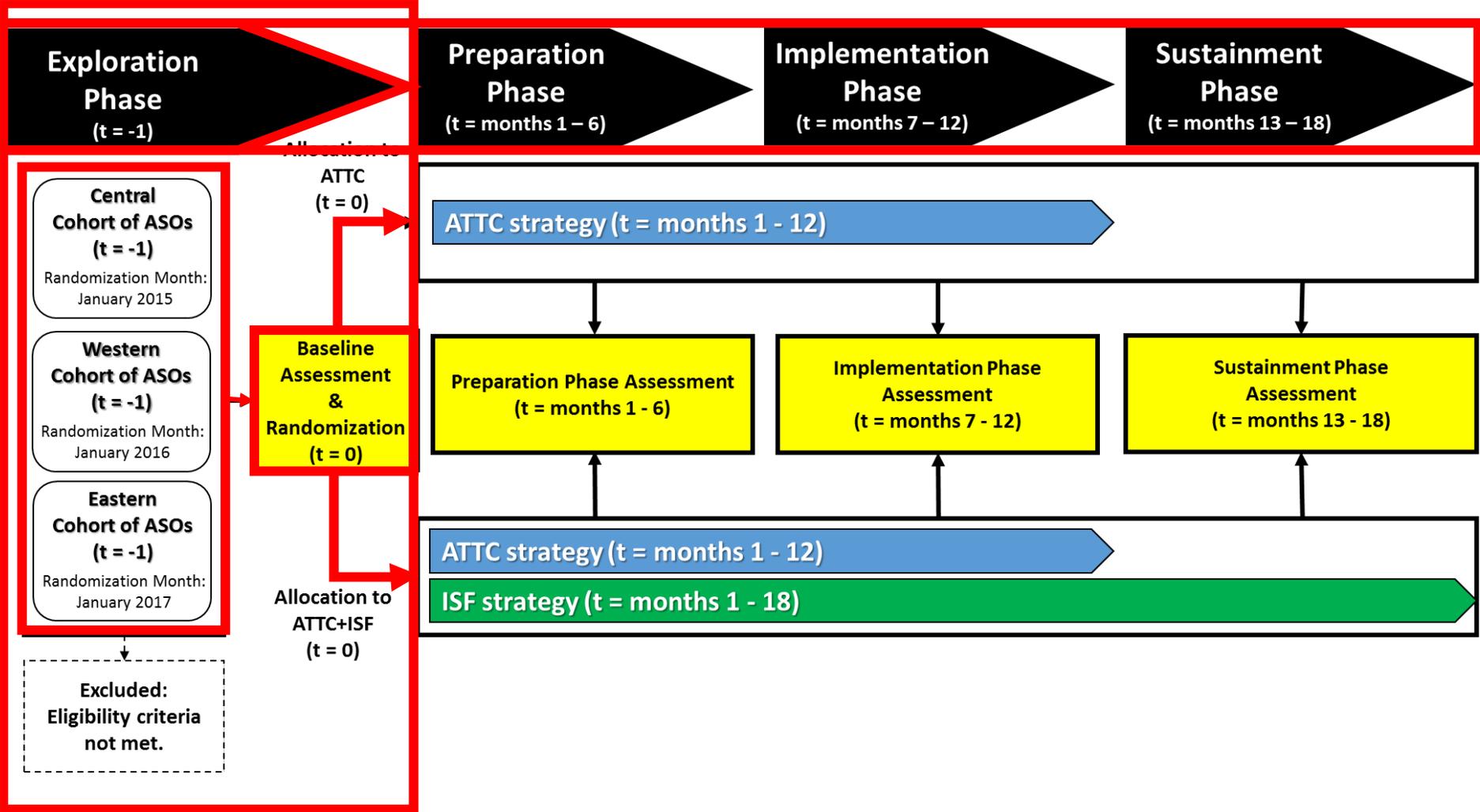
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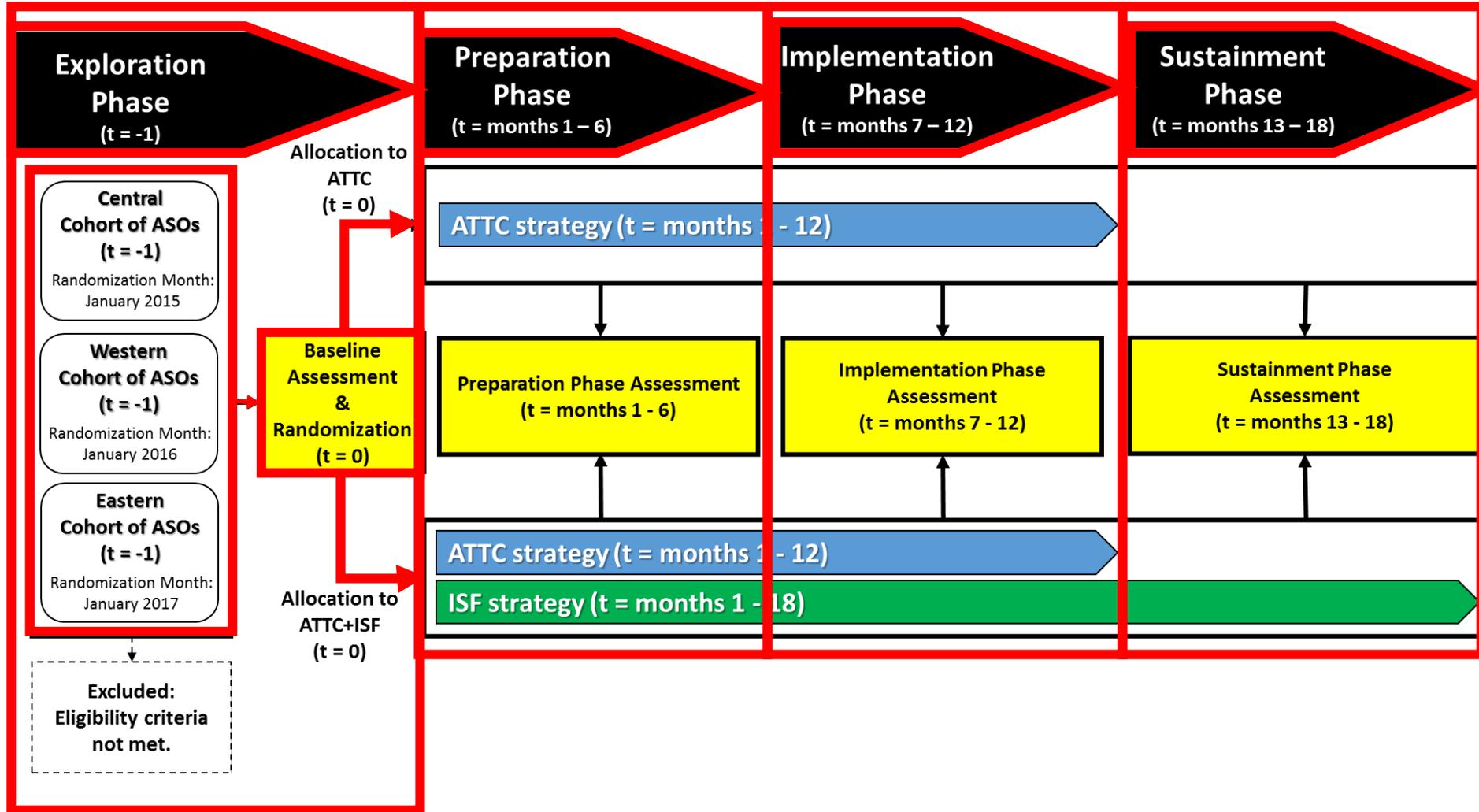
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“use the term sustainment to denote the continued use of an innovation in practice.”
Aarons et al. 2011

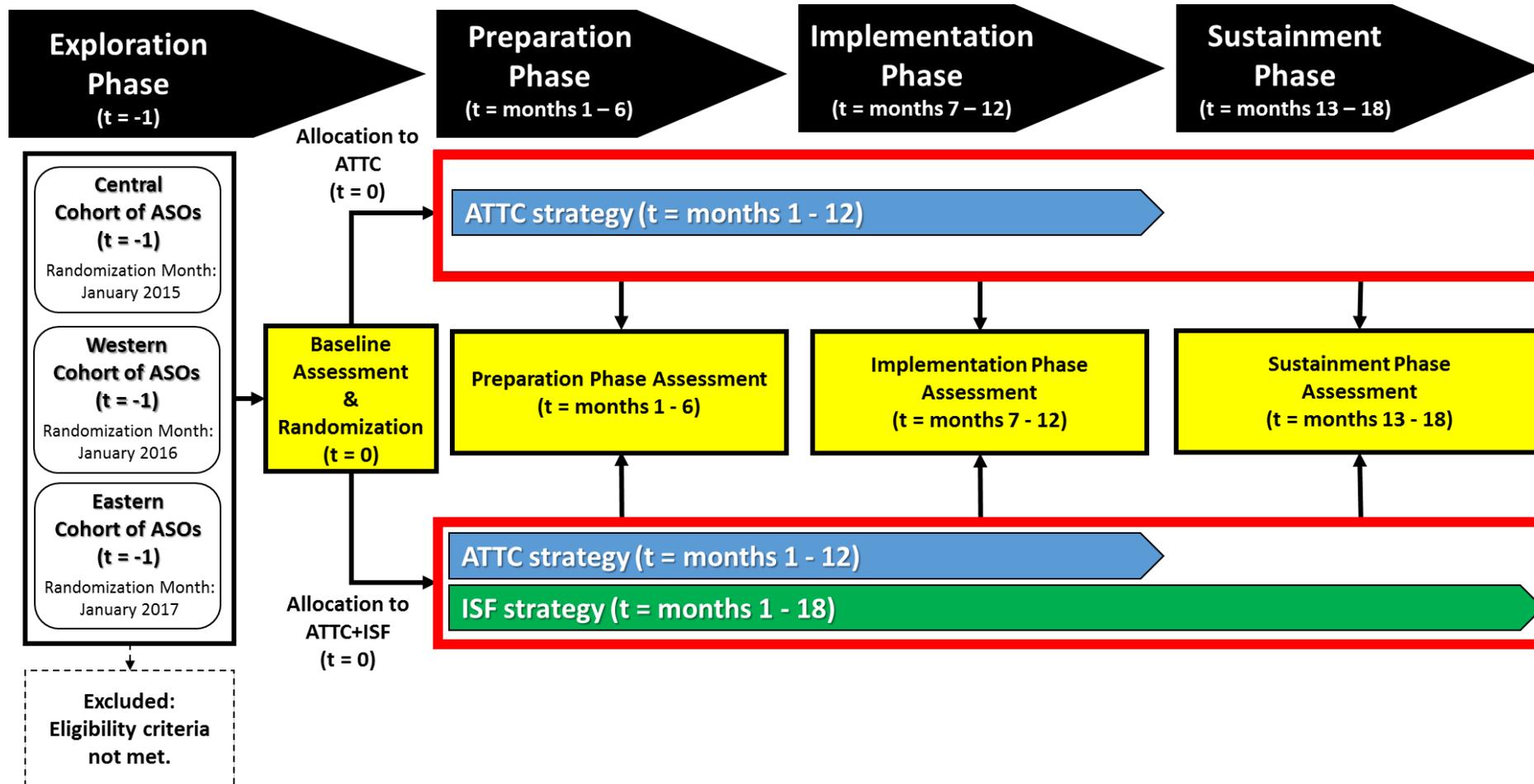
The Method: Participant Flow



The Method: Participant Flow



The Method: Participant Flow



The Method: Implementation Conditions

Proctor et al. *Implementation Science* 2013, **8**:139
<http://www.implementationscience.com/content/8/1/139>



DEBATE **Open Access**

Implementation strategies: recommendations for specifying and reporting

Enola K Proctor^{1*}, Byron J Powell¹ and J Curtis McMillen²

Abstract

Implementation strategies have unparalleled importance in implementation science, as they constitute the 'how to' component of changing healthcare practice. Yet, implementation researchers and other stakeholders are not able to fully utilize the findings of studies focusing on implementation strategies because they are often inconsistently labelled and poorly described, are rarely justified theoretically, lack operational definitions or manuals to guide their use, and are part of 'packaged' approaches whose specific elements are poorly understood. We address the challenges of specifying and reporting implementation strategies encountered by researchers who design, conduct, and report research on implementation strategies. Specifically, we propose guidelines for naming, defining, and operationalizing implementation strategies in terms of seven dimensions: actor, the action, action targets, temporality, dose, implementation outcomes addressed, and theoretical justification. Ultimately, implementation strategies cannot be used in practice or tested in research without a full description of their components and how they should be used. As with all intervention research, their descriptions must be precise enough to enable measurement and 'reproducibility.' We propose these recommendations to improve the reporting of implementation strategies in research studies and to stimulate further identification of elements pertinent to implementation strategies that should be included in reporting guidelines for implementation strategies.

Keywords: Implementation strategies, Implementation research, Measurement, Methodology

1. Name it
2. Define it
3. Specify it
 - a) The Actor
 - b) The Action
 - c) Action Target
 - d) Temporality
 - e) Dose
 - f) Implementation Outcome
 - g) Justification

The Method: Addiction Technology Transfer Center (ATTC) implementation strategy



Review

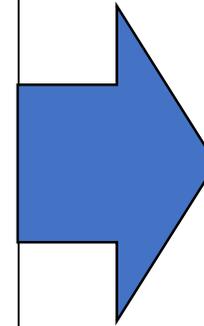
A Compilation of Strategies for Implementing Clinical Innovations in Health and Mental Health

Medical Care Research and Review
69(2) 123–157
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DOI: 10.1177/11077558711430690
http://mcr.sagepub.com
The SAGE logo is a circular emblem with a stylized 'S' inside, followed by the word "SAGE" in a bold, sans-serif font.

Byron J. Powell¹, J. Curtis McMillen², Enola K. Proctor¹,
Christopher R. Carpenter³, Richard T. Griffey³,
Alicia C. Bunker⁴, Joseph E. Glass¹, and Jennifer L. York³

Abstract

Efforts to identify, develop, refine, and test strategies to disseminate and implement evidence-based treatments have been prioritized in order to improve the quality of health and mental health care delivery. However, this task is complicated by an implementation science literature characterized by inconsistent language use and inadequate descriptions of implementation strategies. This article brings more depth and clarity to implementation research and practice by presenting a consolidated compilation of discrete implementation strategies, based on a review of 205 sources published between 1995 and 2011. The resulting compilation includes 68 implementation strategies and definitions, which are grouped according to six key implementation processes: planning, educating, financing, restructuring, managing quality, and attending to the policy context. This consolidated compilation can serve as a reference to stakeholders who wish to implement clinical innovations in health and mental health care and can facilitate the development of multifaceted, multilevel implementation plans that are tailored to local contexts.



- A. Centralized technical assistance
- B. Develop educational materials
- C. Develop and organize quality monitoring systems
- D. Develop tools for quality monitoring
- E. Distribute educational materials
- F. Conduct educational meetings
- G. Make training dynamic
- H. Audit & Provide feedback
- I. Provide ongoing consultation
- J. Create a learning collaborative

The Method: Implementation & Sustainment Facilitation



IMPLEMENTATION & SUSTAINMENT
FACILITATION

Review

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K. Use an improvement and
implementation advisor

L. Develop tools for quality
improvement

M. Organize implementation
team meetings

N. Identify and prepare
champions

O. Assess for readiness and
identify barriers

P. Conduct local consensus
discussions

Q. Conduct cyclical small tests
of change

The Method: Addiction Technology Transfer Center (ATTC) implementation strategy



Table 2. Specification Overview of the Multifaceted Addiction Technology Transfer Center (ATTC) Strategy

Discrete implementation strategies: Defining characteristic according to Proctor and colleagues. [39]	Operational definition of key dimensions for each discrete implementation strategy						
	Actor(s)	Actions(s)	Target(s) of the action	Temporality	Dose	Targeted Implementation Outcome(s)	Justification
A. Centralized technical assistance: Develop and use a system to deliver technical assistance focused on implementation issues.	Regional ATTC (e.g., Mid-America, Northwest, Northeast).	The overarching discrete implementation strategy that encompasses the other discrete implementation strategies listed below.	2 BI staff per ASO.	The initial kickoff meeting should be within 1 month of completing the exploration phase.	See Tables 4 – 6.	Fidelity (i.e., proficiency and implementation effectiveness).	[34, 40-42]
B. Develop educational materials: Develop and format guidelines, manuals, toolkits, and other supporting materials in ways that make it easier for stakeholders to learn about the innovation and for clinicians to learn how to deliver the clinical innovation.	Regional ATTC	The Motivational Interviewing-Based Brief Intervention (MIBI) protocol manual, which provides information and knowledge about how the MIBI is intended to be implemented.	2 BI staff per ASO.	Finalization of educational materials (e.g., MIBI protocol manual) should be prior to the initial kickoff meeting.	See Tables 4 – 6.	Fidelity (i.e., proficiency and implementation effectiveness).	[43, 44]
C. Develop and organize quality monitoring system: Develop and organize systems and procedures that monitor clinical processes and/or outcomes for quality assurance and improvement.	Regional ATTC	A Web-based system (sat2hivproject.org), that enables secure and efficient sharing of data relevant to the evidence-based practice (EBP) preparation and implementation process.	2 BI staff per ASO.	Finalization of quality monitoring systems (i.e., sat2hivproject.org) should be prior to the initial kickoff meeting.	See Tables 4 – 6.	Fidelity (i.e., proficiency and implementation effectiveness).	[47-49]

The Method: Addiction Technology Transfer Center (ATTC) implementation strategy



Table 3. Specification Overview of the Multifaceted Implementation and Sustainment Facilitation (ISF) Strategy

Discrete implementation strategies:	Operational definition of key dimensions for each discrete implementation strategy						
Defining characteristic according to Proctor and colleagues. [39]	Actor(s)	Actions(s)	Target(s) of the action	Temporality	Dose	Targeted Implementation Outcome(s)	Justification
<p>K. Use an improvement and implementation advisor: Seek guidance from experts in implementation, including consultation with outside experts (e.g., university-affiliated faculty members, quality improvement experts, implementation professionals).</p>	An individual with training and experience in assisting organizations with practice improvement and implementation efforts.	The overarching implementation strategy that encompasses the other discrete implementation strategies listed below.	An ASO's designated staff working on the project (SWOP) team (2 BI staff and 2 to 4 leadership staff). Implementation Readiness, Implementation Climate, Leadership Engagement.	The initial kickoff meeting should be held within 1 month of completing the exploration phase.	See Tables 4 – 6.	Fidelity (i.e., proficiency and implementation effectiveness) and Sustainment.	[36, 64-67]
<p>L. Develop tools for quality improvement: Develop, test, and introduce quality-improvement tools with inputs (e.g., measures) specific to the innovation being implemented.</p>	An individual with training and experience in assisting organizations with practice improvement and implementation efforts.	Decisional Balance Exercise; Performance Review, Evaluation, and Planning Exercise; Climate Evaluation & Optimization Exercise	SWOP team. Implementation Readiness, Implementation Climate, Leadership Engagement.	Finalization of tools for quality improvement (e.g., decisional balance worksheet) should be prior to the initial kickoff meeting.	See Tables 4 – 6.	Fidelity (i.e., proficiency and implementation effectiveness) and Sustainment.	[29, 36, 70, 99, 100]

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STUDY PROTOCOL

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Addiction Science &
Clinical Practice

STUDY PROTOCOL

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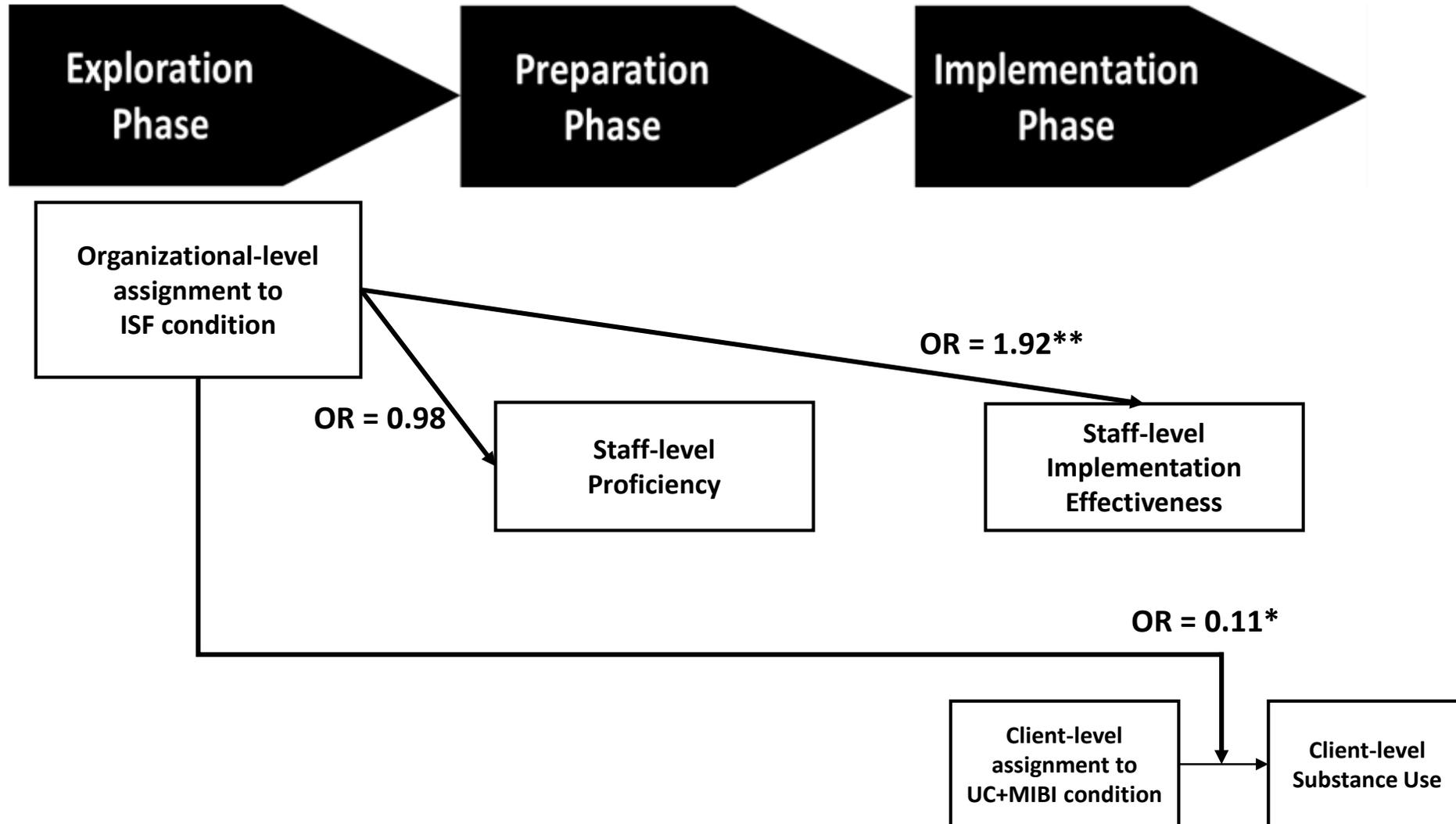


Testing the implementation and sustainment facilitation (ISF) strategy as an effective adjunct to the Addiction Technology Transfer Center (ATTC) strategy: study protocol for a cluster randomized trial

Bryan R. Garner^{1*}, Mark Zehner², Mathew R. Roosa³, Steve Martino⁴, Heather J. Gotham⁵, Elizabeth L. Ball¹, Patricia Stilen⁵, Kathryn Speck⁶, Denna Vandersloot⁷, Traci R. Rieckmann⁸, Michael Chaple⁹, Erika G. Martin^{10,11}, David Kaiser¹ and James H. Ford II²

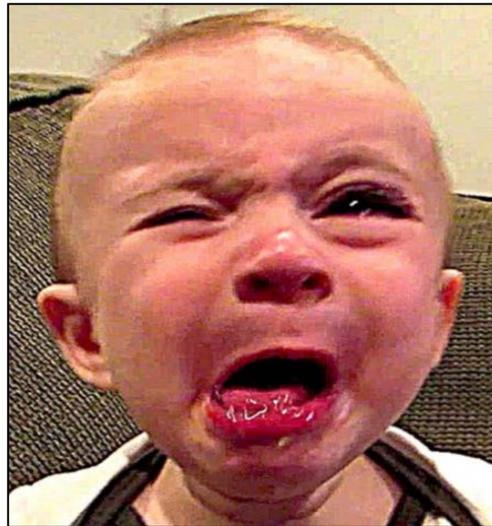
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Results: Main Findings



* $p < .05$; ** $p < .01$

Discussion: Key Takeaways, Lessons Learned, and Next Steps





Discussion: Key Takeaways

Exploration
Phase

Preparation
Phase

Implementation
Phase



39 Distinct ASOs



Discussion: Key Takeaways

Exploration
Phase



39 Distinct ASOs

Preparation
Phase

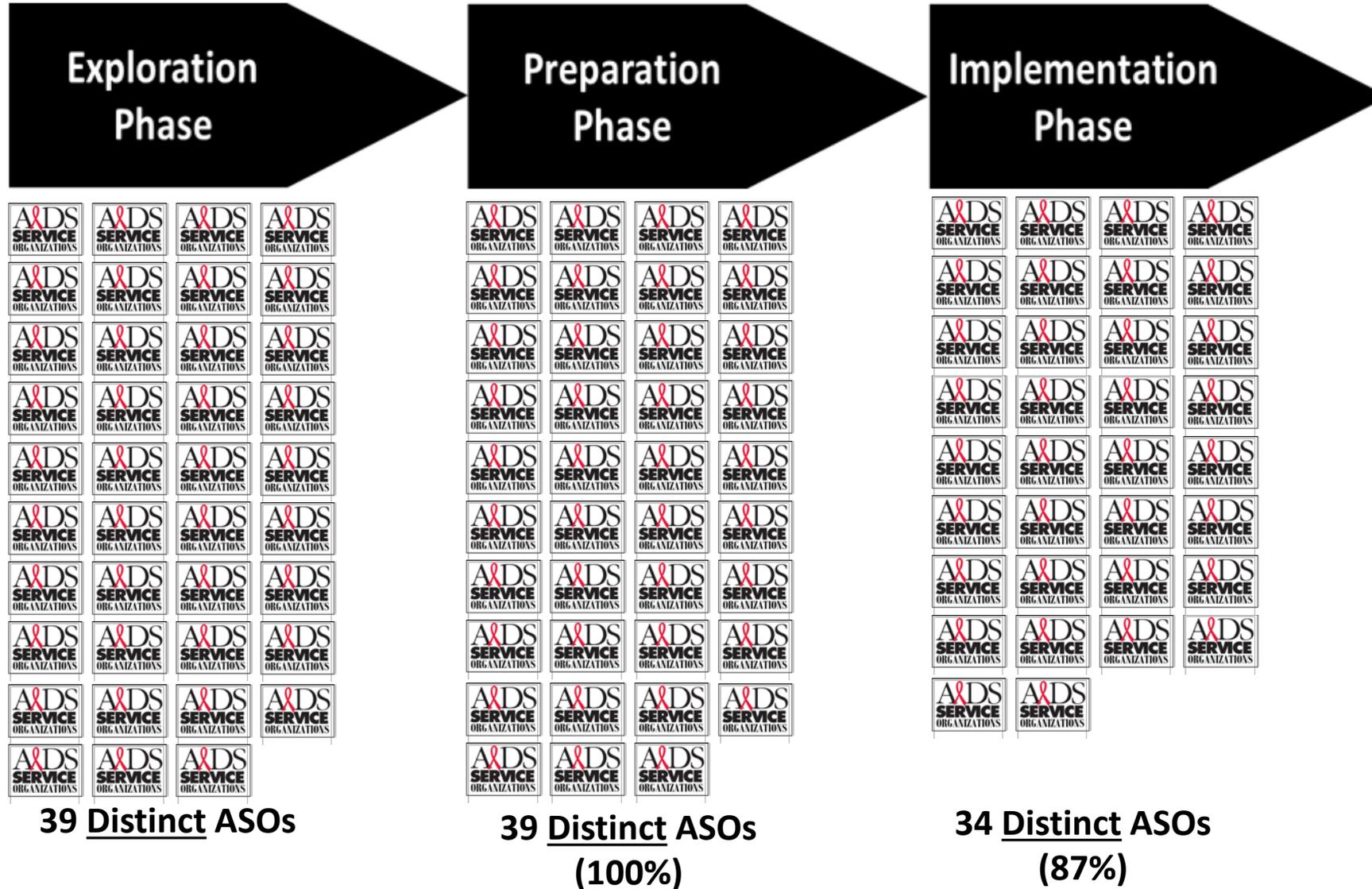


**39 Distinct ASOs
(100%)**

Implementation
Phase

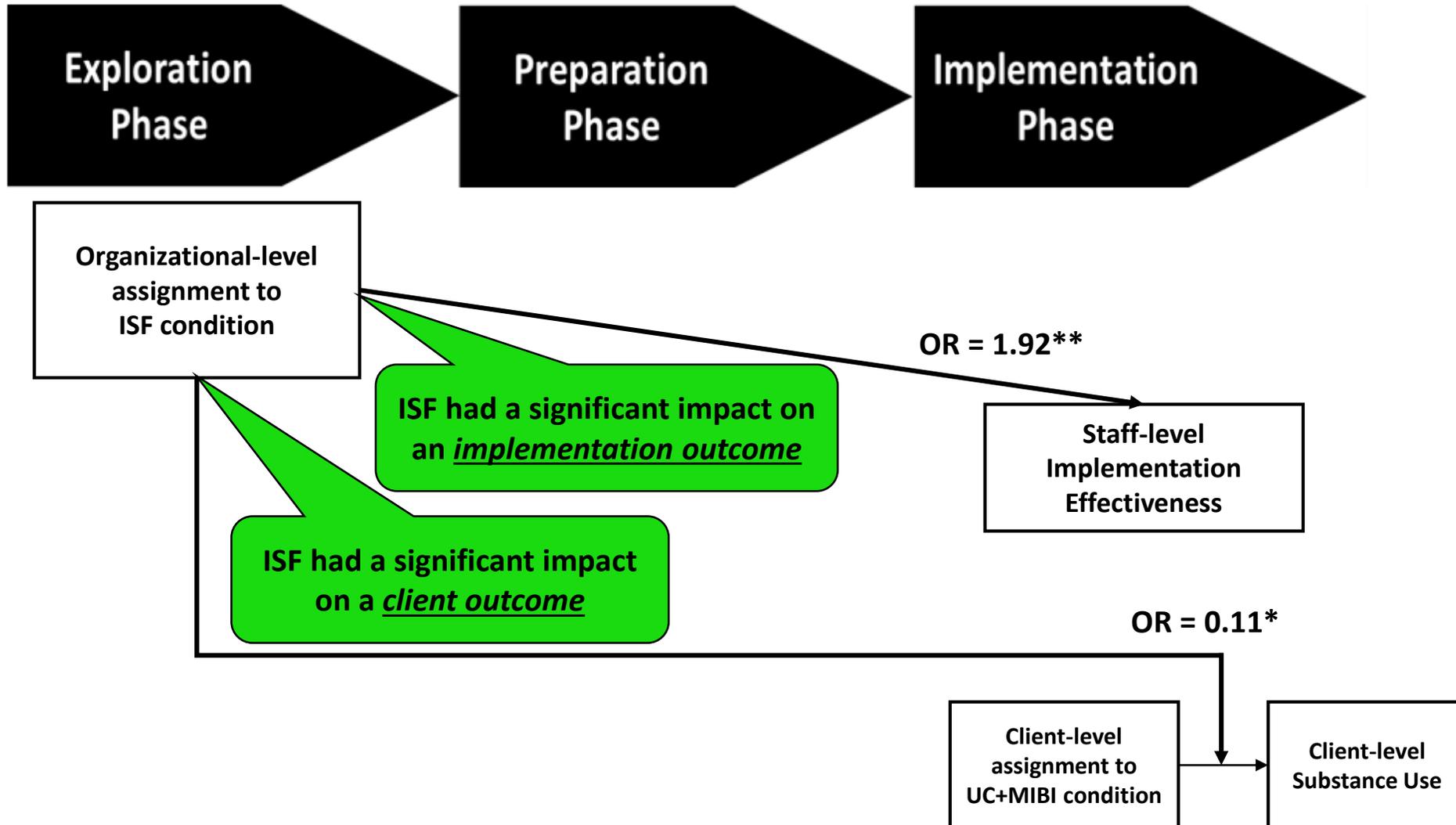


Discussion: Key Takeaways





Discussion: Key Takeaways

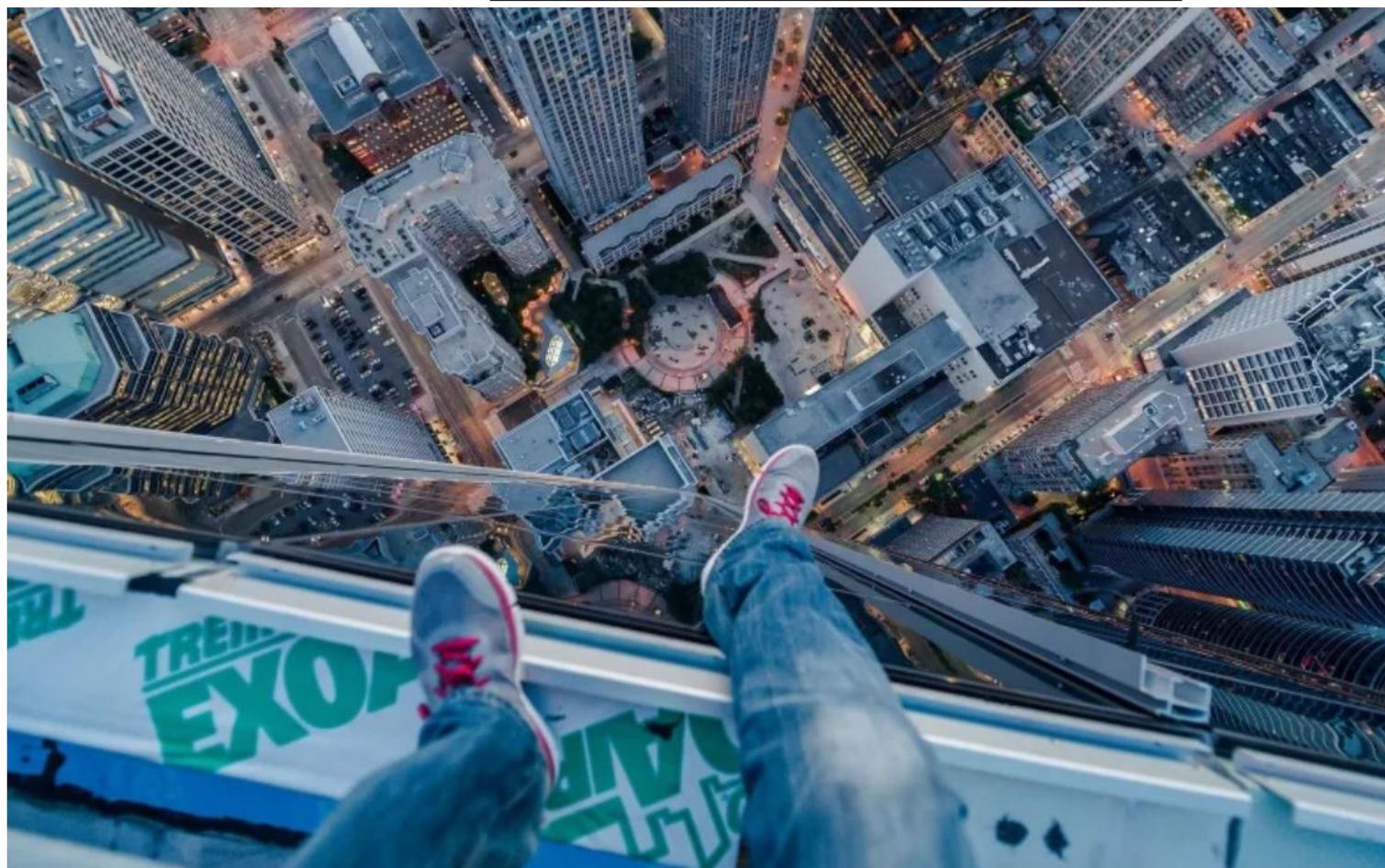


* $p < .05$; ** $p < .01$



Discussion: Lessons Learned

Type 2 effectiveness-implementation hybrid trials are not for the faint of heart



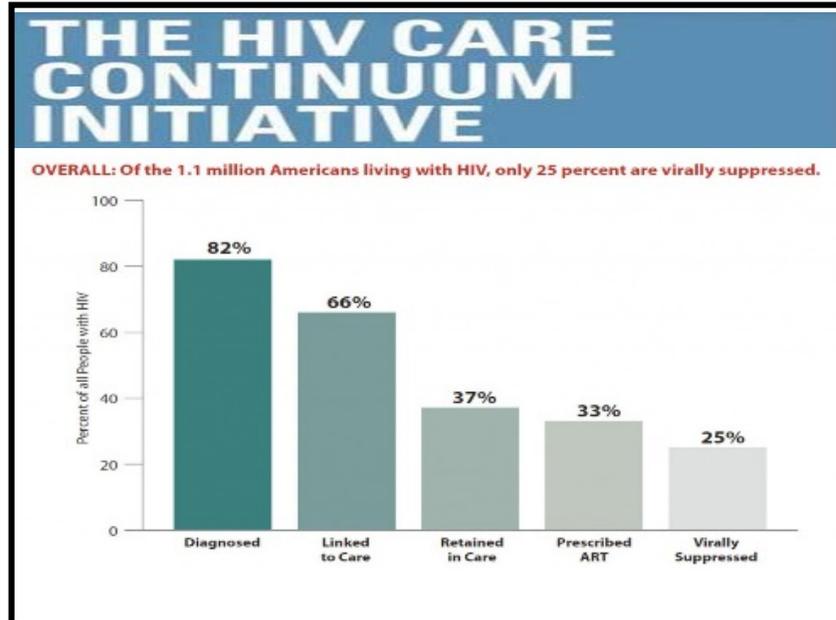
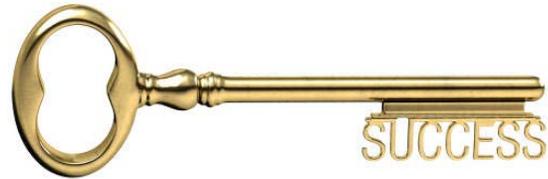


Discussion: Lessons Learned

**Type 2 effectiveness-implementation hybrid trials
are possible... with the right infrastructure and team**



Discussion: Lessons Learned





Discussion: Next Steps



Other grants testing the ISF strategy

THANK YOU

UNITED STATES · ENGLISH

EUROPE

ASIA

EURASIA

AFRICA

S. AMERICA

N. AMERICA

The languages included in this map are those with existing Living Language courses.
The countries representing each language were selected based on population.



FRANCE
Merci.
FRENCH



GERMANY
Danke.
GERMAN



ITALY
Grazie.
ITALIAN



**CZECH
REPUBLIC**
Děkuji.
CZECH



GREECE
ef-khah-ree-STO.
Ευχαριστώ.
GREEK



CROATIA
Hvala.
CROATIAN



NETHERLANDS
Dankjewel.
DUTCH



HUNGARY
Köszönöm.
HUNGARIAN



SWEDEN
Tack.
SWEDISH



POLAND
Dziękuję.
POLISH



JAPAN
arigatoo
gozaimasu.
ありがとうございます。
JAPANESE



N&S KOREA
gamsahamnida.
감사합니다.
KOREAN



CHINA
xièxie.
谢谢。
CHINESE



ISRAEL
toda.
תודה.
HEBREW



INDIA
dhanyavād.
धन्यवाद।
HINDI



VIETNAM
Cám ơn bạn.
VIETNAMESE



TURKEY
Teşekkür ederim.
TURKISH



RUSSIA
spah-SEE-bah.
Спасибо.
RUSSIAN



EGYPT
shukran.
شكراً.
ARABIC



TANZANIA
Asante.
SWAHILI



BRAZIL
Obrigado/Obrigada.
(male/female)
PORTUGUESE



MEXICO
Gracias.
SPANISH