

Equity is not a checklist: One path to conceptualize implementation science and equity

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3R01HD091218, 1 P50 MH122351-01A1

Please engage in the conversation!

Twitter: @BaumannAna

#impsci #equity

My context (why am I talking about these things?)

- Latina (Brazilian), recently received U.S. Citizenship, able-bodied, cisgender woman
- Parent interventions, in the U.S. and globally, for Latino populations

Rodriguez, M. M. D., Baumann, A. A., & Schwartz, A. L. (2011). Cultural adaptation of an evidence based intervention: From theory to practice in a Latino/a community context. *American journal of community psychology*, 47(1-2), 170-186.

Baumann, A. N. A., Domenech Rodríguez, M., & Parra-Cardona, J. R. (2011). Community-based applied research with Latino immigrant families: Informing practice and research according to ethical and social justice principles. *Family process*, 50(2), 132-148.

Baumann, A. A., Mejia, A., Lachman, J. M., Parra-Cardona, R., López-Zerón, G., Buenabad, N. G. A., ... & Rodríguez, M. M. D. (2019). Parenting programs for underserved populations in low-and middle-income countries: issues of scientific integrity and social justice. *Global Social Welfare*, 6(3), 199-207.

Domenech Rodríguez, M. M., Baumann, A. A., Vázquez, A. L., Amador-Buenabad, N. G., Franceschi Rivera, N., Ortiz-Pons, N., & Parra-Cardona, J. R. (2018). Scaling out evidence-based interventions outside the US mainland: Social justice or Trojan horse?. *Journal of Latina/o Psychology*, 6(4), 329.

- Implementation science, adaptation, equity

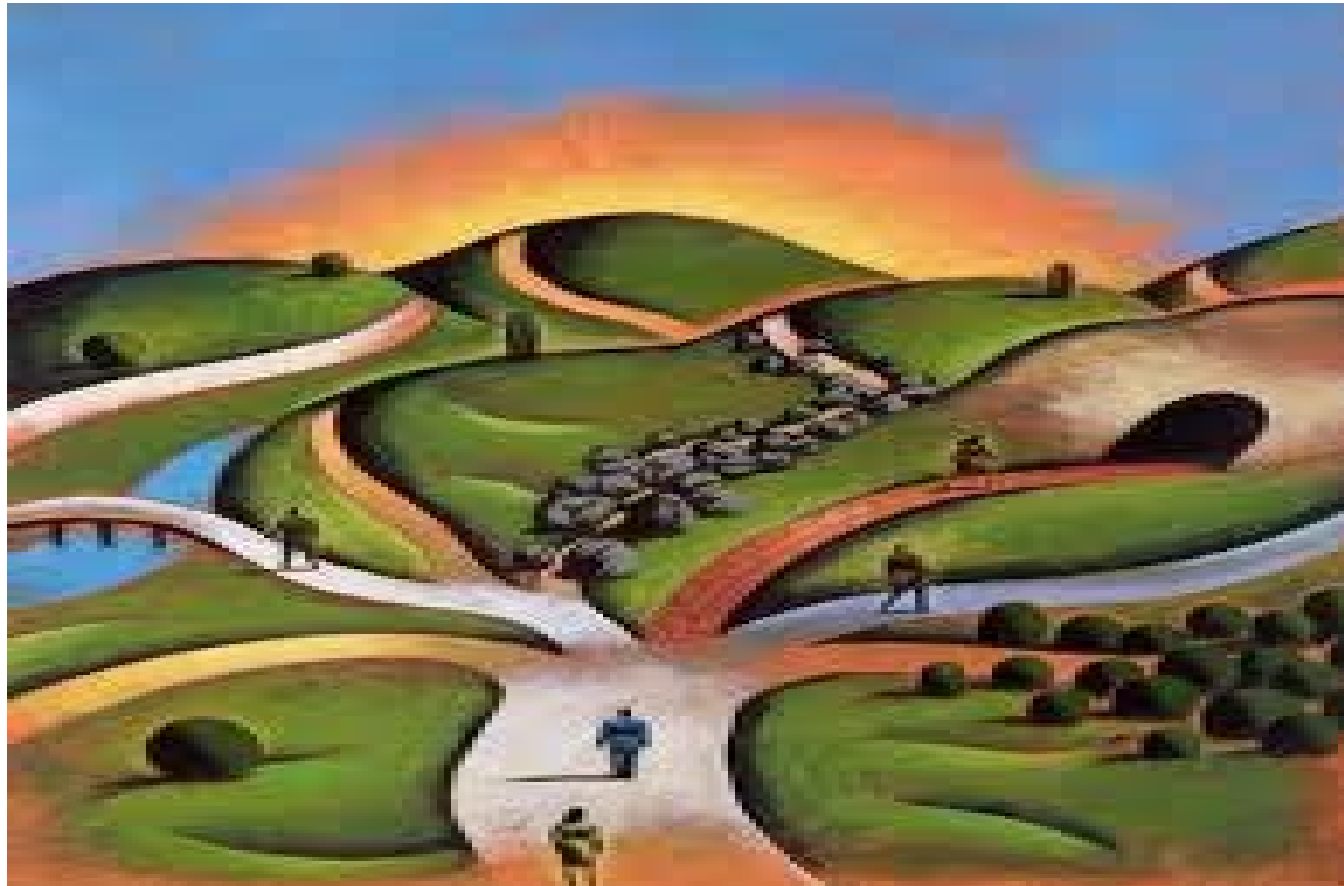
Cabassa, L. J., & Baumann, A. A. (2013). A two-

Baumann, A. A., & Cabassa, L. J. (2020). Reframing implementation science to address inequities in healthcare delivery. *BMC health services research*, 20(1), 1-9. way street: bridging implementation science and cultural adaptations of mental health treatments. *Implementation Science*, 8(1), 1-14.

Miller, C. J., Wiltsey-Stirman, S., & Baumann, A. A. (2020). Iterative Decision-making for Evaluation of Adaptations (IDEA): A decision tree for balancing adaptation, fidelity, and intervention impact. *Journal of community psychology*, 48(4), 1163-1177.

Stirman, S. W., Baumann, A. A., & Miller, C. J. (2019). The FRAME: an expanded framework for reporting adaptations and modifications to evidence-based interventions. *Implementation Science*, 14(1), 1-10.

Equity and Implementation Science



Implementation science and healthcare equity: A path

Baumann and Cabassa *BMC Health Services Research* (2020) 20:190
<https://doi.org/10.1186/s12913-020-4975-3>

BMC Health Services Research

DEBATE

Open Access

Reframing implementation science to address inequities in healthcare delivery



Ana A. Baumann[†] and Leopoldo J. Cabassa^{*†} 

Key Point

Infusing implementation science with an equity approach can produce valuable knowledge to help reduce inequities in healthcare delivery

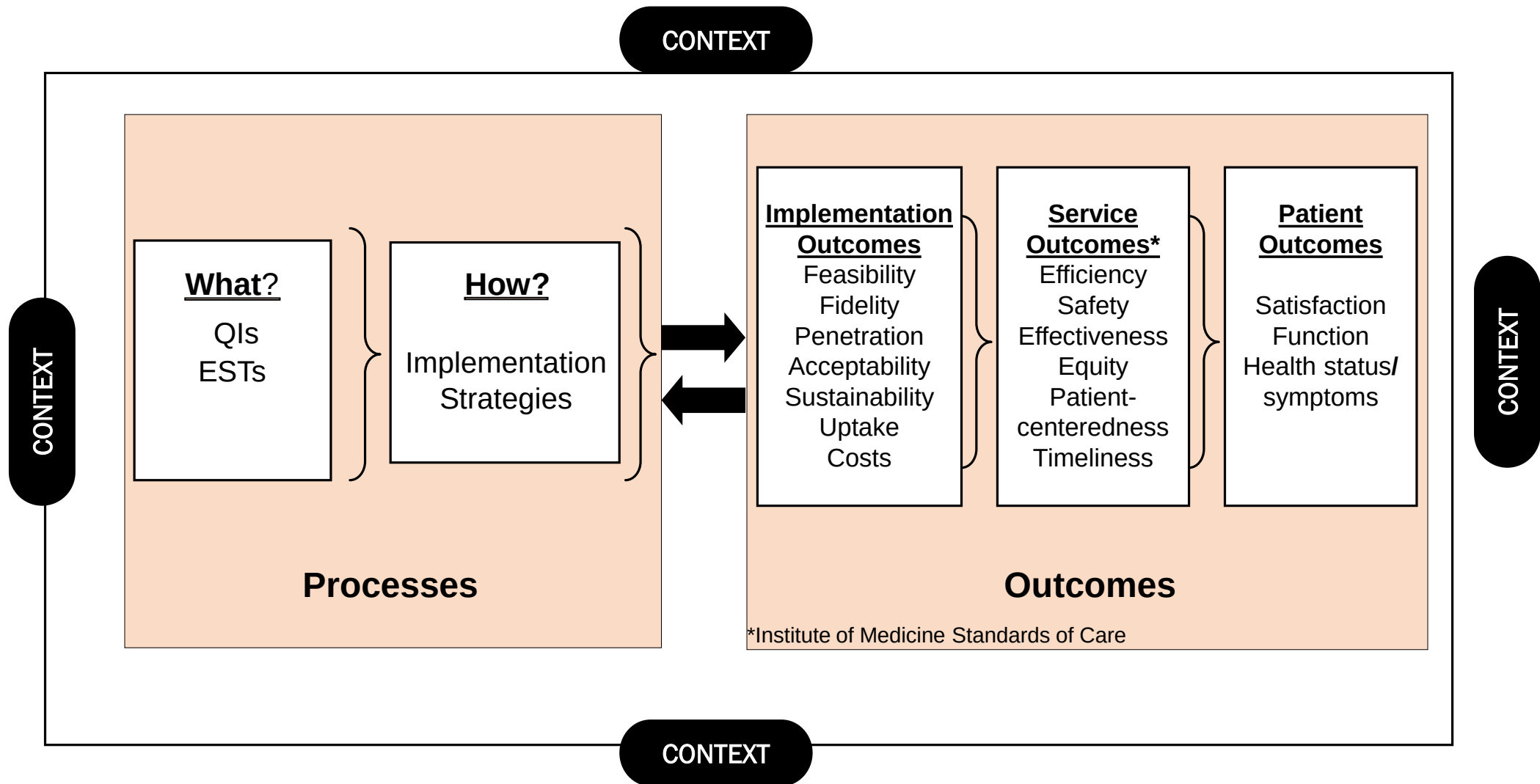
Be careful with the silent assumptions: our research questions are not neutral

CULTURAL ADAPTATION FIELD: “All that is needed is to culturally adapt interventions”

HEALTHCARE DISPARITIES FIELD: “Focus on testing the efficacy and effectiveness of interventions in minority communities”

IMPLEMENTATION SCIENCE FIELD: “One size fits all: Just scale up interventions, it will improve the quality of care for everyone”





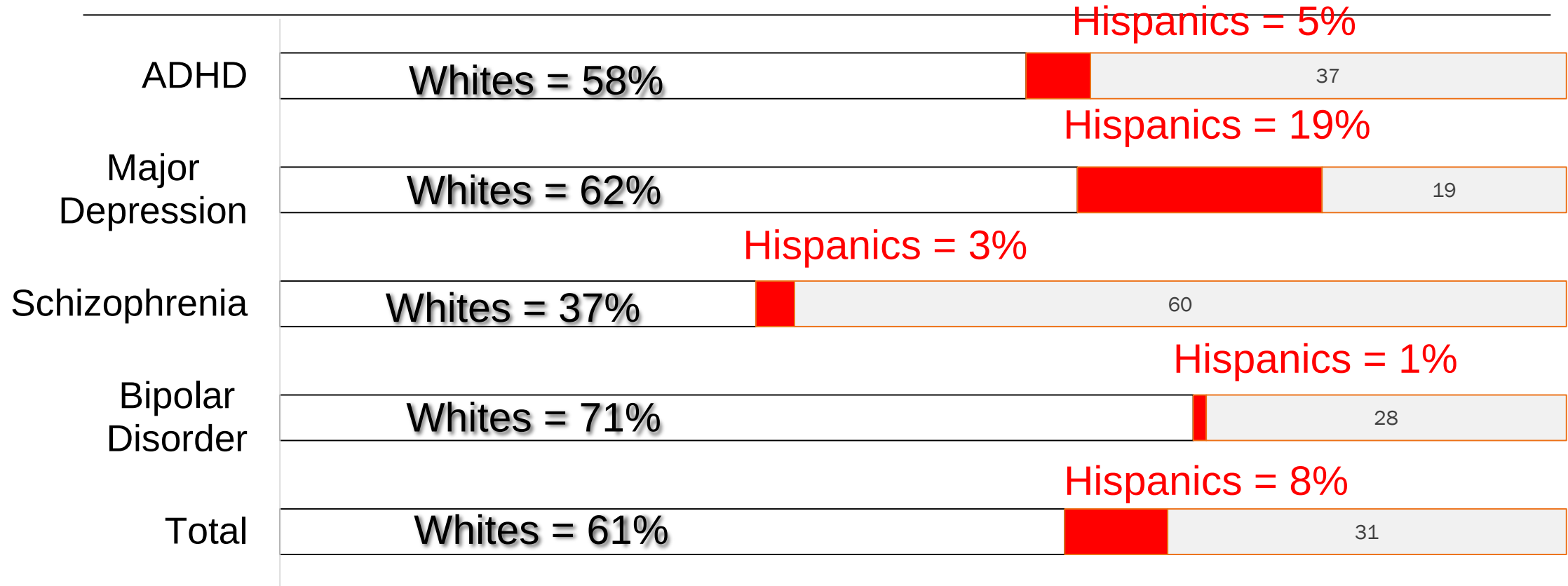
Proctor, E. K., Landsverk, J., Aarons, G., Chambers, D., Glisson, C., & Mittman, B. (2009). Implementation research in mental health services: an emerging science with conceptual, methodological, and training challenges. *Administration and Policy in Mental Health and Mental Health Services Research*, 36(1), 24-34.

- 1. Focus on reach from the very beginning**
- 2. Design and select interventions with implementation in mind**
- 3. Implement what works**
- 4. Develop the science of adaptations**
- 5. Use an equity lens for implementation outcomes**



Focus on reach from the very beginning

Underrepresentation of Hispanics in Clinical Trials for Common Mental Disorders (2001-2010)



Santiago, C. D., & Miranda, J. (2014). Progress in improving mental health services for racial-ethnic minority groups: A ten-year perspective. *Psychiatric Services*, 65(2), 180-185.

Underrepresentation and Assumptions Matter

- Consequences for:
 - Measurement development
 - Intervention efficacy
 - Intervention sustainability

Psychology in the Schools, Vol. 44(6), 2007
Published online in Wiley InterScience (www.interscience.wiley.com).

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DOI: 10.1002/pits.20247

TOWARD REDUCED BIAS AND INCREASED UTILITY IN THE ASSESSMENT OF SCHOOL REFUSAL BEHAVIOR: THE CASE FOR DIVERSE SAMPLES AND EVALUATIONS OF CONTEXT

AARON R. LYON AND SHELDON COTLER

DePaul University

What do I think about inclusive education? It depends on who is asking. Experimental evidence for a social desirability bias in attitudes towards inclusion

Timo Lüke & Michael Grosche



*education
sciences*

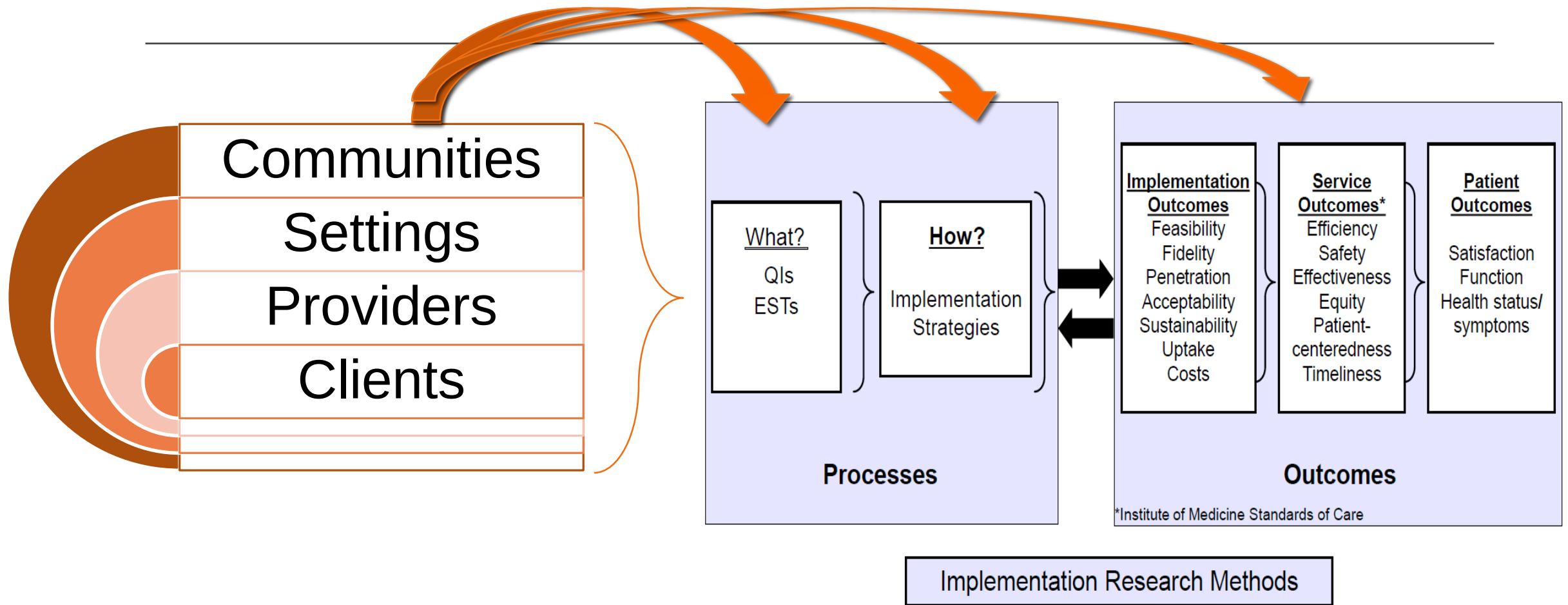


Article

The Myth That Only Brilliant People Are Good at Math and Its Implications for Diversity

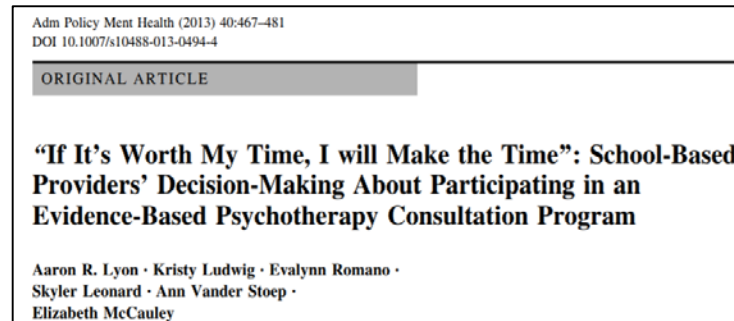
Eleanor K. Chestnut ^{1,*}, Ryan F. Lei ¹, Sarah-Jane Leslie ² and Andrei Cimpian ^{1,*} 

Focus On Reach From The Beginning



Attention to Reach and Engagement

- **Who recruits:** Use of peer specialists to deliver intervention. They bring trust, credibility, hope, and feasibility
- **Where you recruit:** issues of trust, safety, access
- **How you recruit:** word of mouth, using technology
- **How are you engaging the community in your studies**



Design and select interventions with implementation in mind

WHAT?

**QIs
ESTs**

**Design and Select Interventions with
Implementation in Mind**

Partner with stakeholders
from the very beginning

Focus on end-users at all
levels

Consider the ecology of practice

Design and select interventions with implementation in mind

- conduct the intervention development process *with, for, and in* the community
- **User-center design:** grounding the development of the intervention in the ultimate individuals and settings that will use the intervention
 - **Attention to:**
 - Flexibility and complexity
 - Cost
 - Feasibility

CLINICAL PSYCHOLOGY
SCIENCE AND PRACTICE

User-Centered Design for Psychosocial Intervention
Development and Implementation

Aaron R. Lyon, University of Washington
Kelly Koerner, Evidence-Based Practice Institute, LLC

Open access Protocol

BMJ Open Optimising patient active role with a user-centred eHealth platform (CONCERTO+) in chronic diseases management: a study protocol for a pilot cluster randomised controlled trial

Marie-Pierre Gagnon,^{1,2} Mame Awa Ndiaye,¹ Alain Larouche,³ Guylaine Chabot,³ Christian Chabot,⁴ Ronald Buyl,⁵ Jean-Paul Fortin,^{1,6} Anik Giguère,^{1,6} Annie Leblanc,^{1,6} France Légaré,^{1,6} Aude Motulsky,⁷ Claude Sicotte,⁷ Holly O Witteman,⁸ Eric Kavanagh,⁸ Frédérick Lépinay,⁸ Jacynthe Roberge,⁸ Carole Delétroz,⁹ Samira Abbasgholizadeh-Rahimi¹⁰

Cabassa et al. *Implementation Science* 2014, 9:178
<http://www.implementationscience.com/content/9/1/178>

IMPLEMENTATION SCIENCE

RESEARCH Open Access

Using the collaborative intervention planning framework to adapt a health-care manager intervention to a new population and provider group to improve the health of people with serious mental illness

Leopoldo J Cabassa^{1,2*}, Arminda P Gomes¹, Quisqueya Meyreles², Lucia Capitelli², Richard Younge³, Dianna Dragatsi², Juana Alvarez², Yamira Manrique¹ and Roberto Lewis-Fernández^{2,3}

RESEARCH ARTICLE

Community-based participatory design of a community health worker breast cancer training intervention for South Florida Latinx farmworkers

Natalia M. Rodriguez^{1*}, Felicia Casanova^{2,3}, Gabriela Pages³, Layla Claire³, Marian Pedreira³, Michael Touchton³, Felicia Knaut³

¹ Department of Public Health, College of Health and Human Sciences, Purdue University, West Lafayette, Indiana, United States of America, ² Department of Sociology, College of Arts and Sciences, University of Miami, Miami, Florida, United States of America, ³ Institute for Advanced Study of the Americas, University of Miami, Miami, Florida, United States of America

Disability & Society

ISSN: 0968-7599 (Print) 1360-0508 (Online) Journal homepage: <https://www.tandfonline.com/loi/cdso20>

'Whose agenda? Who knows best? Whose voice?' Co-creating a technology research roadmap with autism stakeholders

Sarah Parsons, Nicola Yuill, Judith Good & Mark Brosnan

Implement what works and develop strategies to help reduce inequities in care

Implement what works

We have interventions
that decrease disparities

BUT

**They are not being
implemented in usual
care**

Current Psychiatry Reports (2019) 21: 35
<https://doi.org/10.1007/s11920-019-1017-0>

PUBLIC POLICY AND PUBLIC HEALTH (G NORQUIST, SECTION EDITOR)



Community Interventions to Promote Mental Health and Social Equity

Enrico G. Castillo^{1,2,3} · Roya Ijadi-Maghsoodi^{1,4,5} · Sonya Shadravan¹ · Elizabeth Moore¹ · Michael O. Mensah III¹ · Mary Docherty⁶ · Maria Gabriela Aguilera Nunez¹ · Nicolás Barcelo¹ · Nichole Goodsmith¹ · Laura E. Halpin¹ · Isabella Morton¹ · Joseph Mango^{1,7} · Alanna E. Montero^{1,7} · Sara Rahmanian Koushkaki^{1,7} · Elizabeth Bromley^{1,7,8,9,10} · Bowen Chung^{1,7,9,11,12} · Felicia Jones^{1,2} · Sonya Gabrielian^{1,5} · Lillian Gelberg^{10,13,14} · Jared M. Greenberg^{1,5} · Ippolytos Kalofonos^{1,2,15} · Sheryl H. Kataoka^{1,7,16} · Jeanne Miranda^{1,7,14} · Harold A. Pincus^{9,17} · Bonnie T. Zima^{1,7,16} · Kenneth B. Wells^{1,7,9,14}

Bastable, E., Meng, P., Falcon, S., & McIntosh, K. (2019). Using an embedded mixed methods design to assess and improve intervention acceptability of an equity-focused intervention: A methodological demonstration. *Behavior Disorders*. Advance online publication. doi: 10.1177/0198740919880486

From evidence to impact: Joining our best school mental health practices with our best implementation strategies

Aaron R. Lyon, Eric J. Bruns
University of Washington School of Medicine

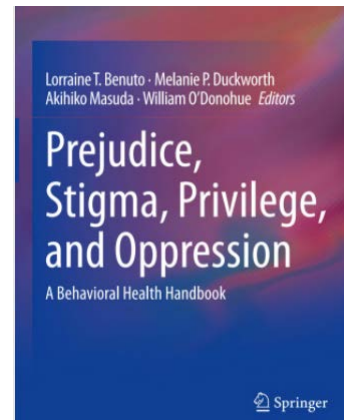
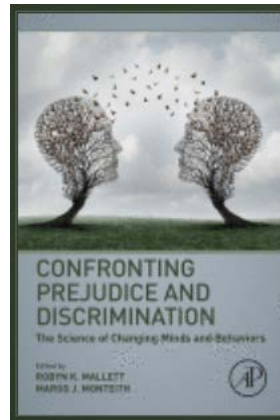
Implement What Works: The Role of Implementation Strategies

HOW?

**Implementation
Strategies**



Which strategies could help promote equitable education?



Rehabilitation Psychology. 64(2):119-129, MAY 2019

DOI: 10.1037/rep0000256, PMID: 30489124

Issn Print: 0090-5550

Publication Date: May 2019



Disability Identity and Allyship in Rehabilitation Psychology: Sit, Stand, Sign, and Show Up

Anjali Forber-Pratt; Carlynn Mueller; Erin Andrews;

PEDIATRICS PERSPECTIVES

Advocating for Children During the COVID-19 School Closures

Abbey R. Masonbrink, MD, MPH, Emily Hurley, PhD, MPH

The current issue and full text archive of this journal is available on Emerald Insight at:
<https://www.emerald.com/insight/2040-7149.htm>

Anti-racist actions and accountability: not more empty promises

C. Malik Boykin

Anti-racist actions

Microresearch: Promoting Scholarly Activity That Addresses Health Disparities in Rural Health Professional Education Programs

Lynn Engelberg Glenn, PhD APRN
Lisa Simon, MD, DMD
Veronica S. Smith, MSEE
Randall L. Longenecker, MD
David Schmitz, MD
Davis G. Patterson, PhD

How to provide anti-racist mental health care



The recent turmoil in response to police brutality against Black communities in the USA and western countries has led the American Psychological Association to instead associated with negative perceptions of mental health services and professionals, self-stigmatisation, and poor experiences with care services, including attitudes

Published Online
July 8, 2020
[https://doi.org/10.1016/S2215-0366\(20\)30309-6](https://doi.org/10.1016/S2215-0366(20)30309-6)

Develop the science of adaptation

Adaptation

Can we all agree that adaptation happens?

AND

Adaptation is important if we are to address disparities

**Because of the unique sociocultural context;
Threat to social validity**

Prevention Science (2020) 21:820–829
<https://doi.org/10.1007/s11121-020-01120-8>

The User-Program Interaction: How Teacher Experience Shapes the Relationship Between Intervention Packaging and Fidelity to a State-Adopted Health Curriculum

Andria B. Eisman¹ · Amy M. Kilbourne^{2,3} · Dana Greene Jr¹ · Maureen Walton^{2,4} · Rebecca Cunningham^{4,5}

Journal of Autism and Developmental Disorders (2019) 49:924–934
<https://doi.org/10.1007/s10803-018-3795-3>

ORIGINAL PAPER

Therapists' Adaptations to an Intervention to Reduce Challenging Behaviors in Children with Autism Spectrum Disorder in Publicly Funded Mental Health Services

Margaret W. Dyson^{1,2} · Colby Chlebowsky^{1,2} · Lauren Brookman-Frazee^{1,2}

Cabassa and Baumann *Implementation Science* 2013, **8**:90
<http://www.implementationscience.com/content/8/1/90>



DEBATE

Open Access

A two-way street: bridging implementation science and cultural adaptations of mental health treatments

Leopoldo J Cabassa^{1,2*} and Ana A Baumann³

Adaptation

- Decision and Process Frameworks
- Methods

Wiltsey Stirman et al. *Implementation Science* (2019) 14:58
https://doi.org/10.1186/s13012-019-0898-y

Implementation Science

DEBATE Open Access

The FRAME: an expanded framework for reporting adaptations and modifications to evidence-based interventions

Shannon Wiltsey Stirman^{1*}, Ana A. Baumann² and Christopher J. Miller^{3,4}



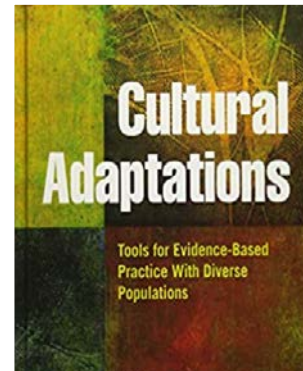
Qualitative Reports of How and When Therapists Adapt Children's Evidence-Based Practices during Community Implementation

Miya L. Barnett, Lauren Brookman-Frazee, Juan Carlos Gonzalez, Chanel Zhan, Adriana Rodriguez, Nicole A. Stadnick & Anna S. Lau

Systematic, Multimethod Assessment of Adaptations Across Four Diverse Health Systems Interventions

Borsika A. Rabin^{1,2,3,4*}, Marina McCreight¹, Catherine Battaglia^{1,5}, Roman Ayele^{1,5}, Robert E. Burke^{1,5}, Paul L. Hess^{1,5}, Joseph W. Frank^{1,5} and Russell E. Glasgow^{1,3,4}

¹ Denver-Seattle Center of Innovation for Veteran-Centered and Value-Driven Care (CIVIC), Denver VA Medical Center, Denver, CO, United States; ² Department of Family Medicine and Public Health, School of Medicine, University of California San Diego, La Jolla, CA, United States; ³ Adult and Child Consortium for Health Outcomes Research and Delivery Sciences, School of Medicine, University of Colorado, Aurora, CO, United States; ⁴ Department of Family Medicine, School of Medicine, University of Colorado, Aurora, CO, United States; ⁵ Department of Health System Management and Policy, Colorado School of Public Health, University of Colorado, Aurora, CO, United States; ⁶ Department of Medicine, School of Medicine, University of Colorado, Aurora, CO, United States



A scoping study of frameworks for adapting public health evidence-based interventions

Cam Escoffery,¹ Erin Lebow-Skelley,¹ Hallie Udelson,¹ Elaine A. Böing,¹ Richard Wood,² Maria E. Fernandez,² Patricia D. Mullen²

Cabassa et al. *Implementation Science* 2014, **9**:178
http://www.implementation-science.com/content/9/1/178

IMPLEMENTATION SCIENCE

RESEARCH Open Access

Using the collaborative intervention planning framework to adapt a health-care manager intervention to a new population and provider group to improve the health of people with serious mental illness

Leopoldo J. Cabassa^{1,2*}, Arminda P. Gomes¹, Quisqueya Meyreles², Lucia Capitelli², Richard Younge³, Dianna Draqatsi², Juana Alvarez², Yamira Manrique¹ and Roberto Lewis-Fernández^{2,3}

CLINICAL PSYCHOLOGY
SCIENCE AND PRACTICE

Parent Management Training-Oregon Model (PMTO™) in Mexico City: Integrating Cultural Adaptation Activities in an Implementation Model

Ana A. Baumann, Brown School of Social Work, Washington University in St. Louis
Melanie M. Domenech Rodríguez, Utah State University
Nancy G. Amador, Instituto Mexicano de Psiquiatría Ramón de la Fuente Muñiz
Marion S. Forgatch, Oregon Social Learning Center
J. Rubén Parra-Cardona, Michigan State University

Received: 30 May 2019 | Revised: 23 October 2019 | Accepted: 26 October 2019
DOI: 10.1002/jcop.22279

SPECIAL ISSUE ARTICLE

Iterative Decision-making for Evaluation of Adaptations (IDEA): A decision tree for balancing adaptation, fidelity, and intervention impact

Christopher J. Miller PhD¹ | Shannon Wiltsey-Stirman PhD² | Ana A. Baumann PhD³

Kirk et al. *Implementation Science* (2020) 15:56
https://doi.org/10.1186/s13012-020-01021-y

Implementation Science

DEBATE Open Access

Towards a comprehensive model for understanding adaptations' impact: the model for adaptation design and impact (MADI)

M. Alexis Kirk^{1*}, Julia E. Moore², Shannon Wiltsey Stirman³ and Sarah A. Birken⁴

Science of Adaptation

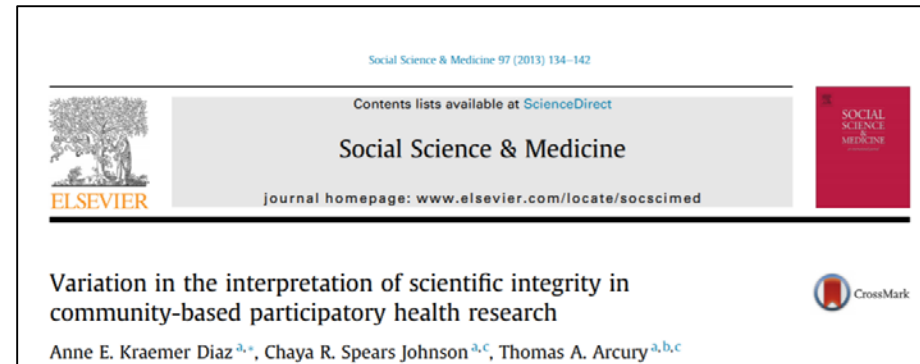
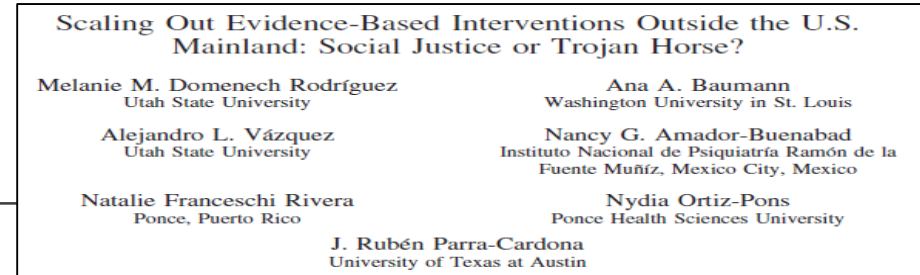
Adaptation



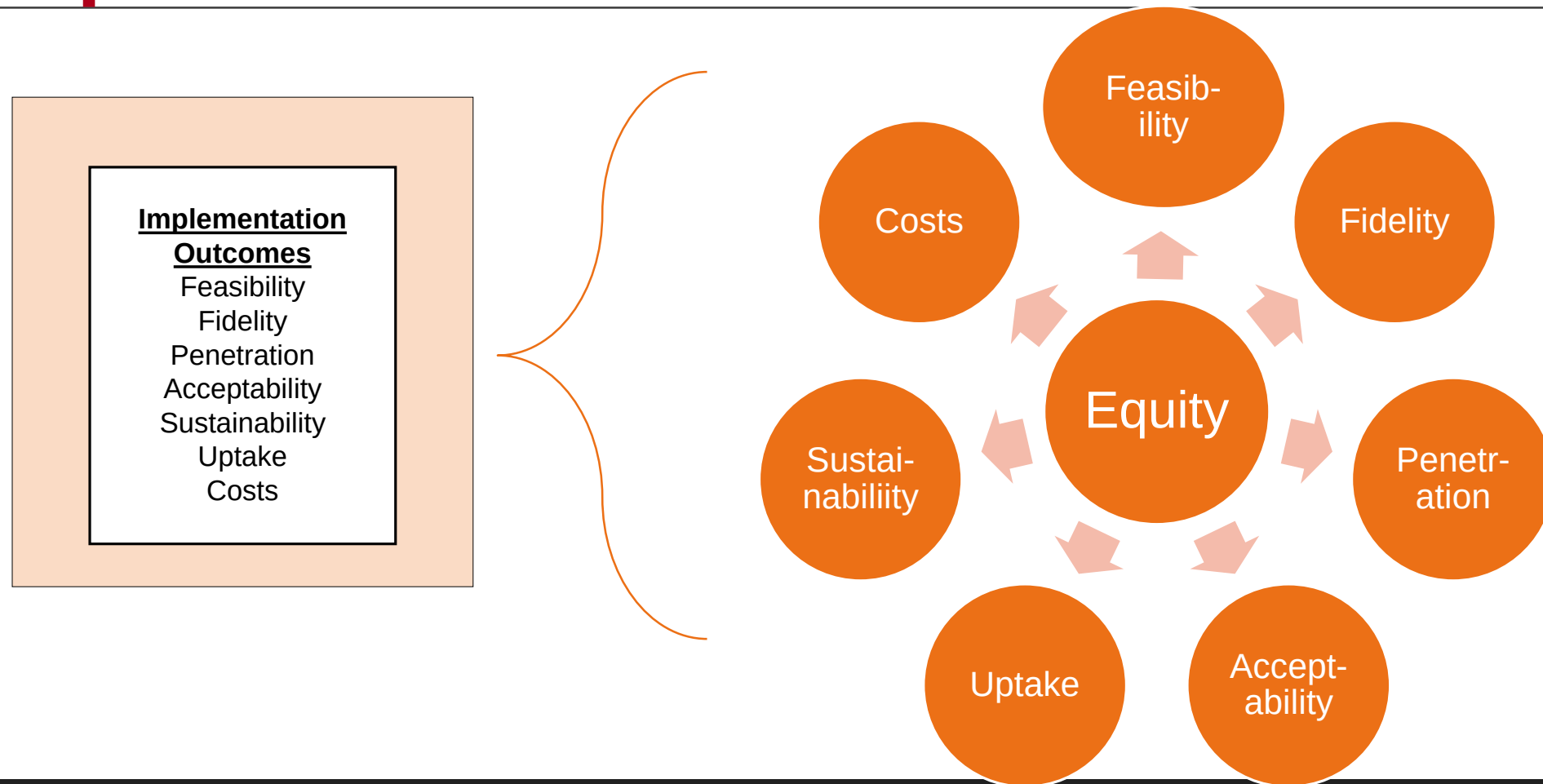
**Use an equity lens for implementation
outcomes**

Using an equity lens

The same intervention and implementation strategy has different acceptability & feasibility depending on the context



Use an Equity Lens for Implementation Outcomes



In summary: Future Areas of Inquiries

Achieve	Reconfigure	Expand	Invest in
Achieve inclusion and representation	Reconfigure the intervention development and refinement process	Expand the science of adaptation Place equity at the center of implementation studies	Invest in implementation trials that focus on enhancing equity in healthcare deliver

Thank You!
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