

# Disclosure

David A. Chambers, DPhil  
Associate Director, Dissemination and Implementation  
Research, NIMH

## Speaker Disclosures

### Financial:

- Chief, Services Research and Clinical Epidemiology Branch, NIMH
- ASHFoundation: travel/expense reimbursement

### Non-financial:

- None

# Advancing Implementation Science: A View from NIMH

David Chambers, DPhil  
Associate Director, Dissemination and Implementation Research,  
NIMH

ASHFoundation Implementation Science Summit  
March 22, 2014



# Presentation Outline

- Conceptualizing the Challenge
- Current Progress (NIH efforts)
- Building a Better System

# Underscoring the Need (Case Example: Mental Health)



~60 million people in the US with any Disorder; 11-17 million “severe”

## Sources:

NSDUH (2009); Kessler, Chiu, Demler, & Walters (2005); Wang, Lane, Olfson, Pincus, Wells & Kessler (2005); Merikangas, He, Burstein, Swendsen, Avenevoli, Case, Georgiades, Heaton, Swanson, Olfson (2011)

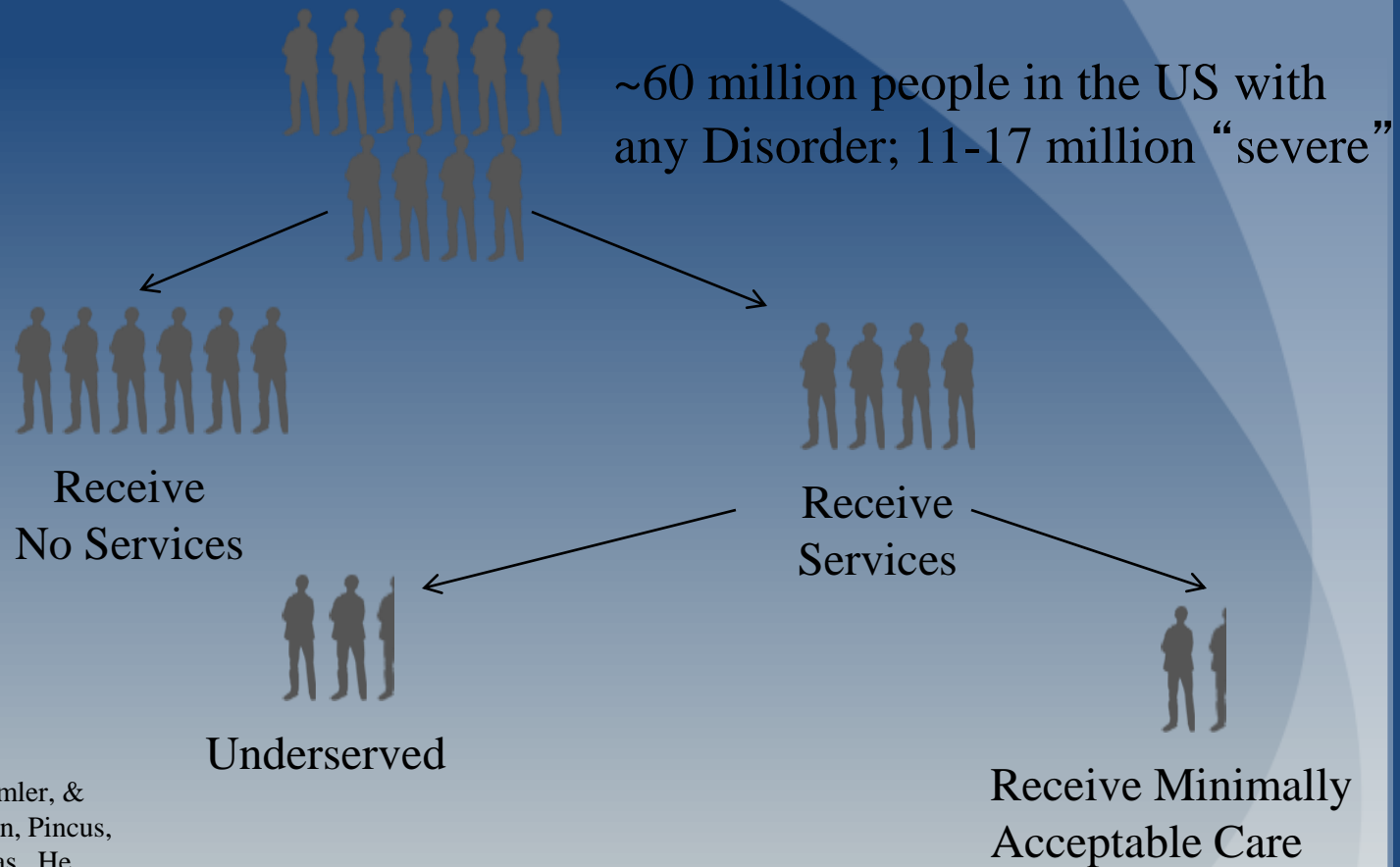
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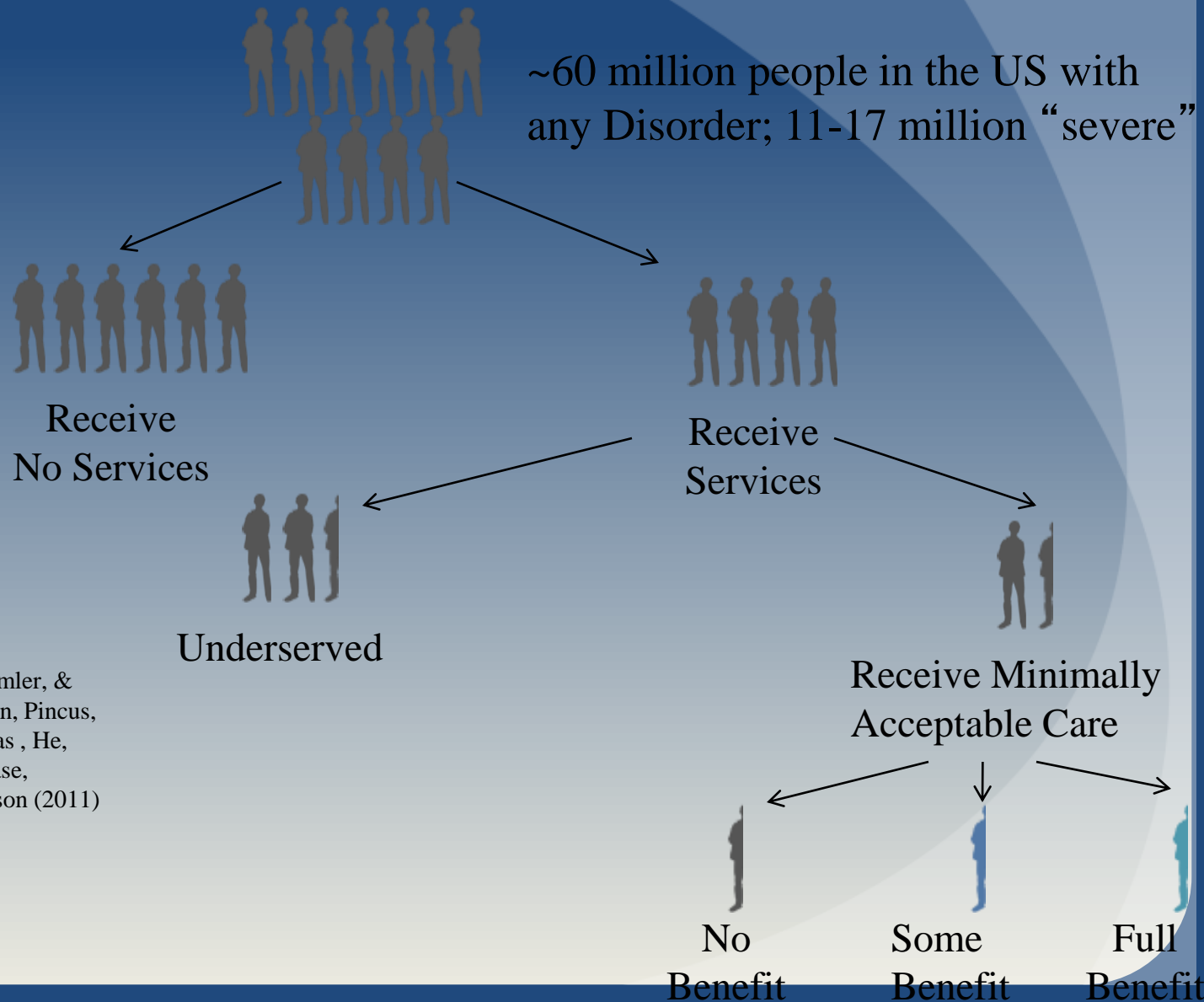
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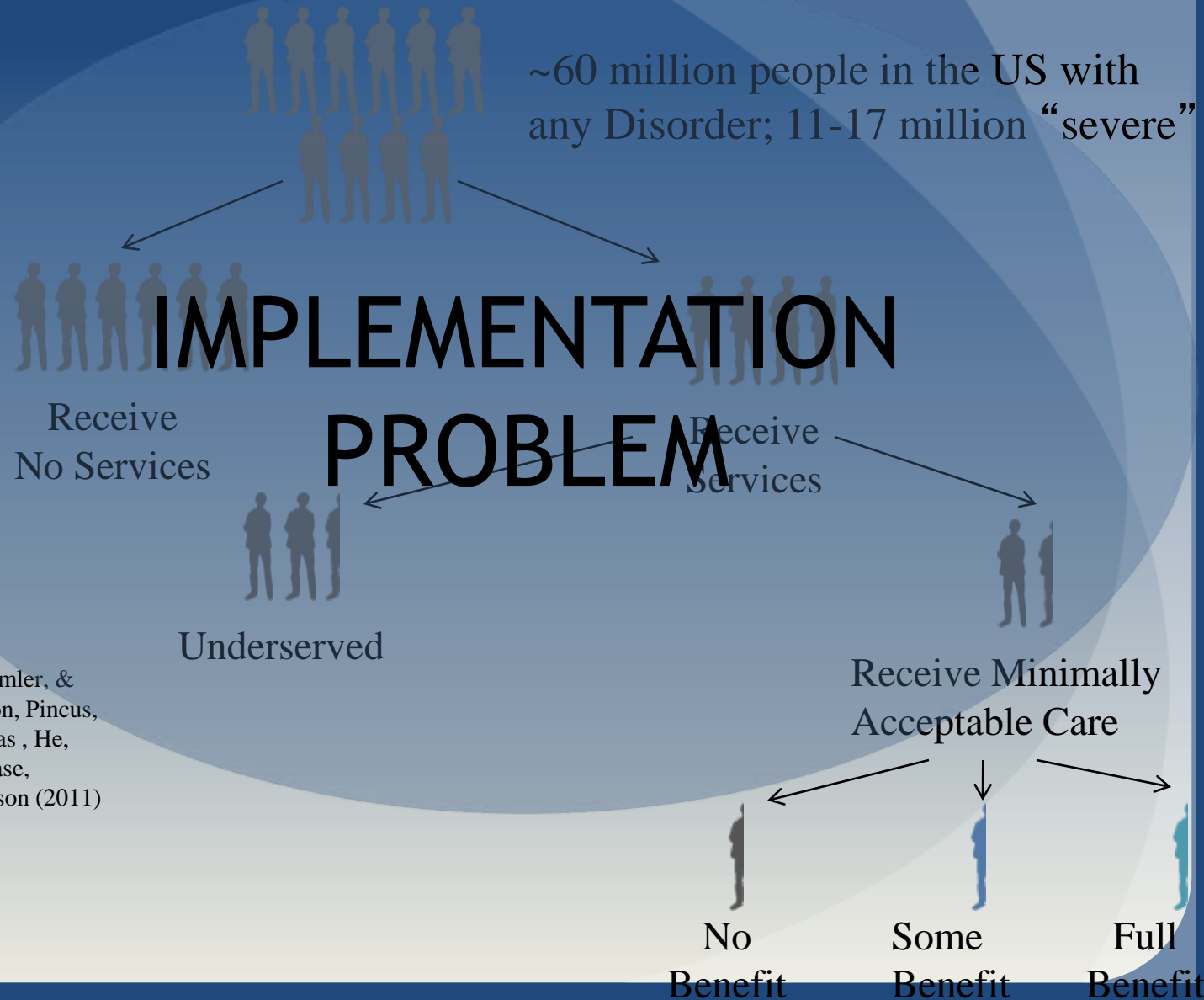
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# How Far Have We Come?

# Challenges of Dissemination and Implementation Research (c 2001)

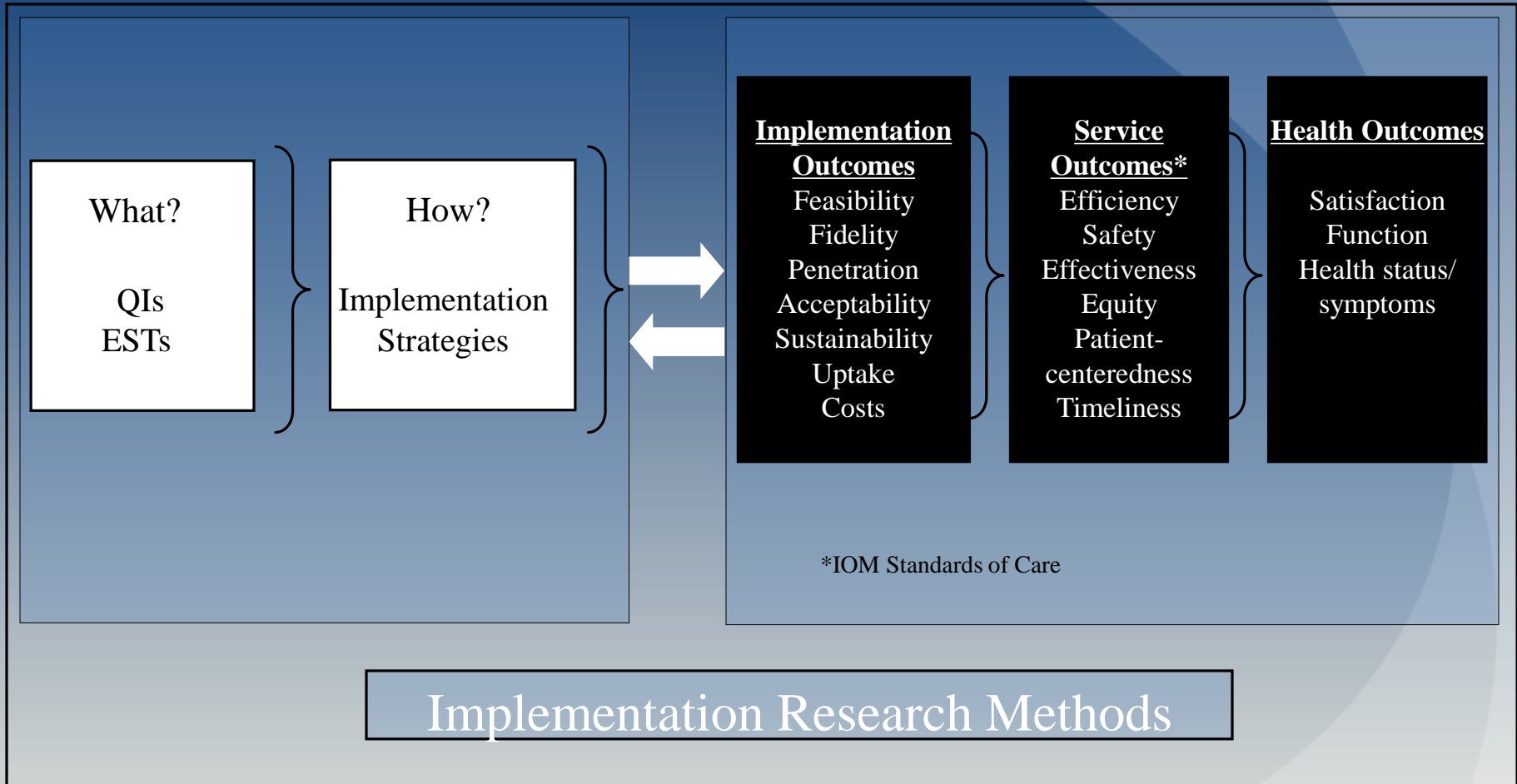
- Variability in terms
- Little awareness of research questions
- Minimal capacity within the field
- No shared vision
- Few opportunities to present/publish
- Commentaries outpace studies
- Not clear part of research agenda

# Dissemination and Implementation Research

- **Dissemination is** “the targeted distribution of information and intervention materials to a specific public health or clinical practice audience.”
- **Implementation is** “the use of strategies to adopt and integrate evidence-based health interventions and change practice patterns within specific settings.”

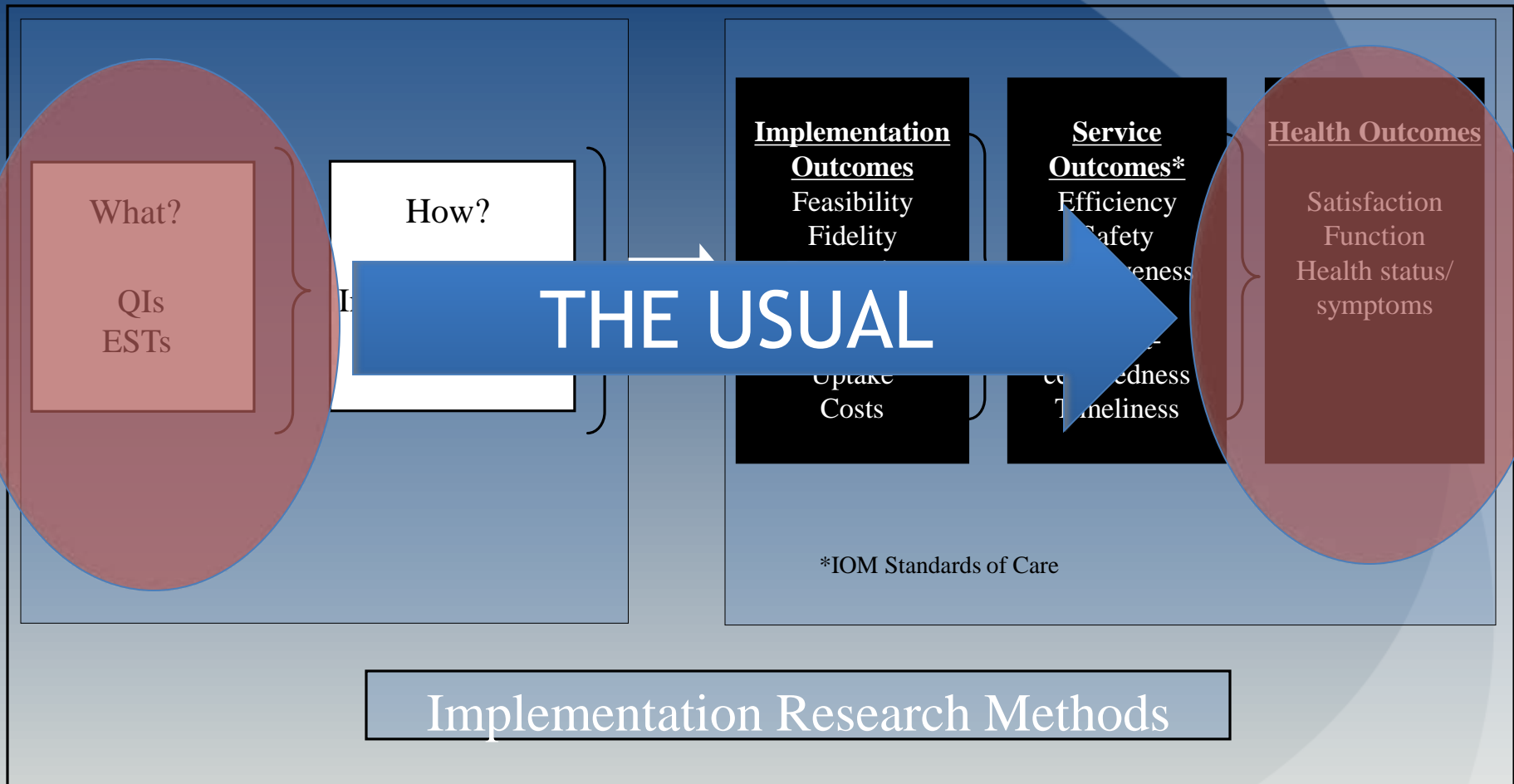
NIH PAR-13-055; Adapted from Lomas (1993)

# Studying Implementation



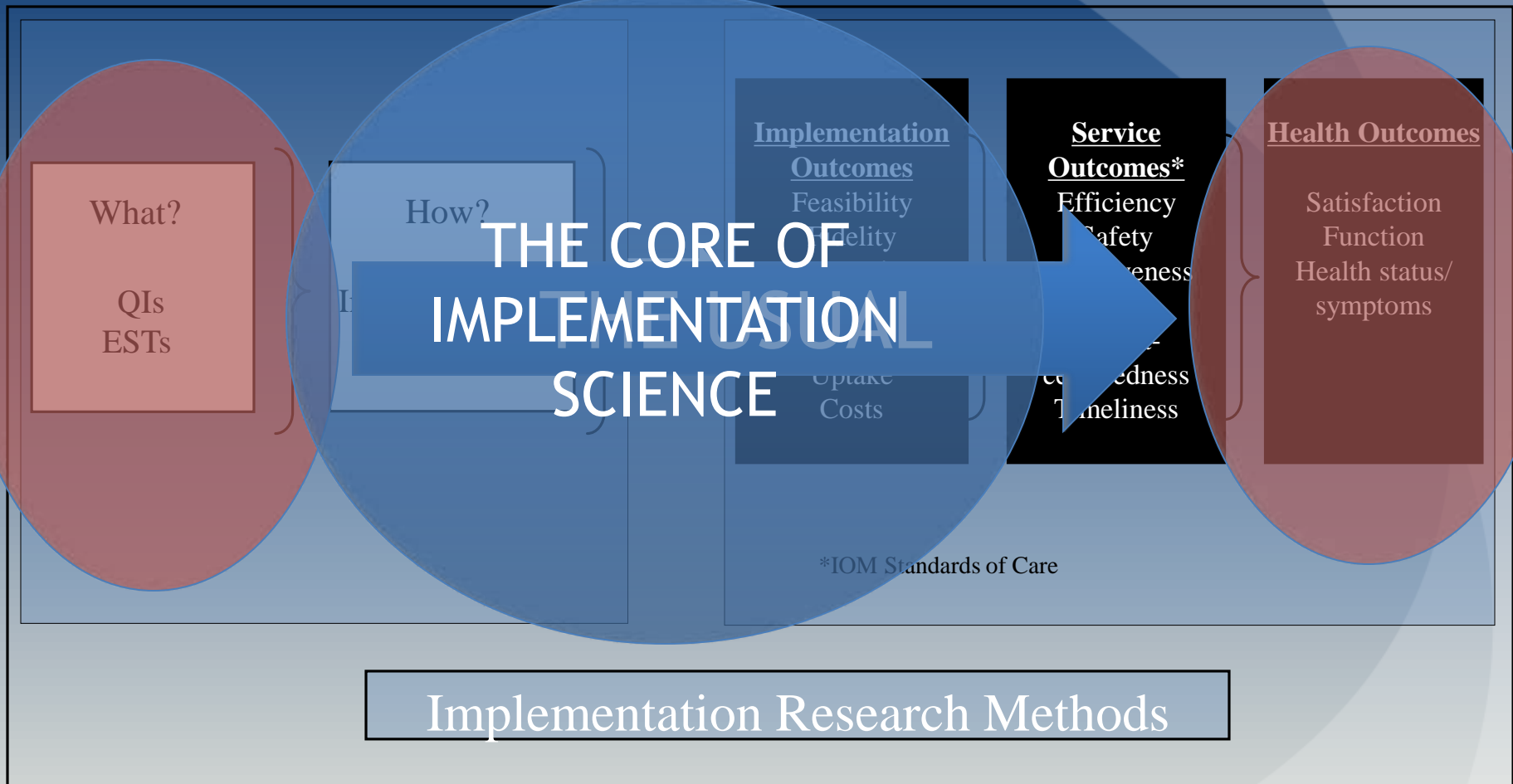
Proctor et al 2009 *Admin. & Pol. in Mental Health & Mental Health Services Research*

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# The First NIH PAR(s) Portfolio ('06-'09)

- 24 R01s, 3 R03s, 13 R21s
- Primarily focused on implementation of specific EBPs
- Continuum of Intervention Types (Tx, Prevention, Screening, etc.)
- Clinical and Community Settings
- Most studies are prospective

(Ref: Tinkle et al, *Nursing Research and Practice*, 2013)

# The Second NIH PAR(s) Portfolio ('09-'12)

- 25 R01s, 3 R03s, 12 R21s (2 rounds to go)
- Enhanced focus on sustainability, improved measurements
- Continuum of Intervention Types (Tx, Prevention, Screening, etc.)
- Expansion of clinical topics (e.g. Dental, CAM, Complex patients)
- Experimental, Quasi-experimental, observational designs

(Ref: Tinkle et al, *Nursing Research and Practice*, 2013)



# Dissemination and Implementation Studies

- Effectiveness of implementation approach
  - Quality Improvement Interventions
  - Organizational change
  - Provider Training and Supervision
  - Financing/policy change
- Emerging approaches
  - Learning Collaboratives
  - Technology support system

...and more to come

# The Current Program Announcements

- PAR-13-054; 13-055;13-056
- NIMH, NCI, NIDA, NIA, NHGRI, NIAAAA, NIAID, NHLBI, NINR, NIDDK, NINDS, NIDCD, NIDCR, NCCAM, FIC, OBSSR
- 2010 CSR standing review committee
- Every round Submission

# Selected D&I Research Themes

- Strategies to improve sustainability/ongoing improvement of ITVs
- “Scaffolding” of multiple ITVs within Care System
- Development/Use of innovative designs and measures
- Systems science approaches (e.g. simulation modeling) to D&I
- IS in the global health context

(See PAR 13-055, for more examples)



National Institute  
of Mental Health

# The DIRH Study Section (Review Committee)

- “The (DIRH) Study Section reviews applications intending to bridge gaps between public health, clinical research, and everyday practice. The focus of the studies reviewed is on the transmission and implementation of knowledge from scientific discovery to transform healthcare delivery, improve health outcomes, and manage acute and chronic illness.
- **SRO: Martha Hare, Ph.D.**
- [http://www.csr.nih.gov/Roster\\_proto/sectionI\\_list\\_detail.asp?NEWSRG=DIRH&SRG=DIRH&SRGDISPLAY=DIRH](http://www.csr.nih.gov/Roster_proto/sectionI_list_detail.asp?NEWSRG=DIRH&SRG=DIRH&SRGDISPLAY=DIRH)  
(ROSTER)

# D and I Resources (NIH and beyond)

- Funded Grants (e.g. NIH, AHRQ, CDC, VA, Foundations)
- Research Centers, CTSA cores, Networks
- Implementation Research Institute (NIMH-funded R25)
- OBSSR-led Summer Training Institute—June, 2013, <http://conferences.thehillgroup.com/OBSSRinstitutes/TIDIRH2013/index.html>. 2014 mtg in Boston, July.
- *Implementation Science*
- Recent Book: Brownson, Colditz, Proctor, 2012 *Dissemination and Implementation Research in Health*

# Annual NIH/VA D and I Meetings

- “First meeting: September 2007: “Showcase” , ~350 participants
- Second meeting: “Building Capacity” January 2009, > 500 registrants
- Third meeting: “Methods and measures” March 2010, 900 people registered
- Fourth meeting: “Policy and Practice” March 2011, 1200 registrants
- Fifth meeting: “D and I at the crossroads” , March 19-20, 2012, 1200 registrants
- “Sixth” meeting(s): Working groups on Training (Sept ‘13), Measurement (Oct ‘13), Research Design (Jan ‘14)

[http://obssr.od.nih.gov/scientific\\_areas/translation/dissemination\\_and\\_implementation/index.aspx](http://obssr.od.nih.gov/scientific_areas/translation/dissemination_and_implementation/index.aspx)



National Institute  
of Mental Health



[dchamber@mail.nih.gov](mailto:dchamber@mail.nih.gov)

301-443-3747

