

Evidence-based practice is not enough

Steps to scaling up intervention programs for population-level impact

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ASD Roadmap
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My background

- ❖ As a father
- ❖ As a clinician
- ❖ As a teacher
- ❖ As a researcher
- ❖ As a program leader

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Research → Better Lives!

- ❖ Thrilling stories of research and scholarship
 - From observation to experimentation to products to better lives
 - John Snow, The Broad Street Pump, and the discovery of cholera's origins

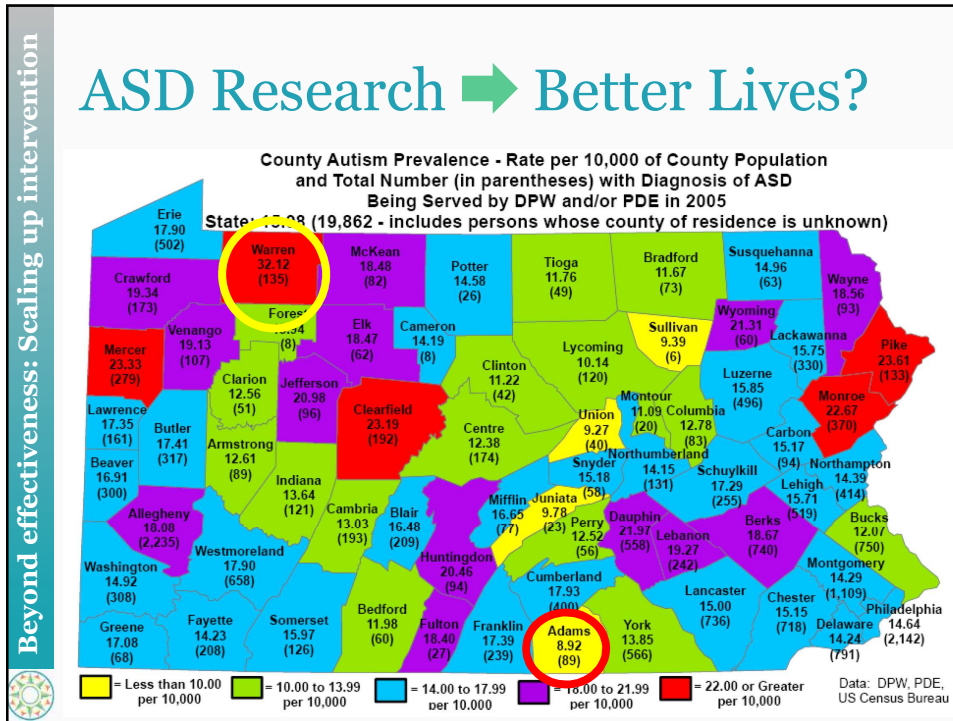
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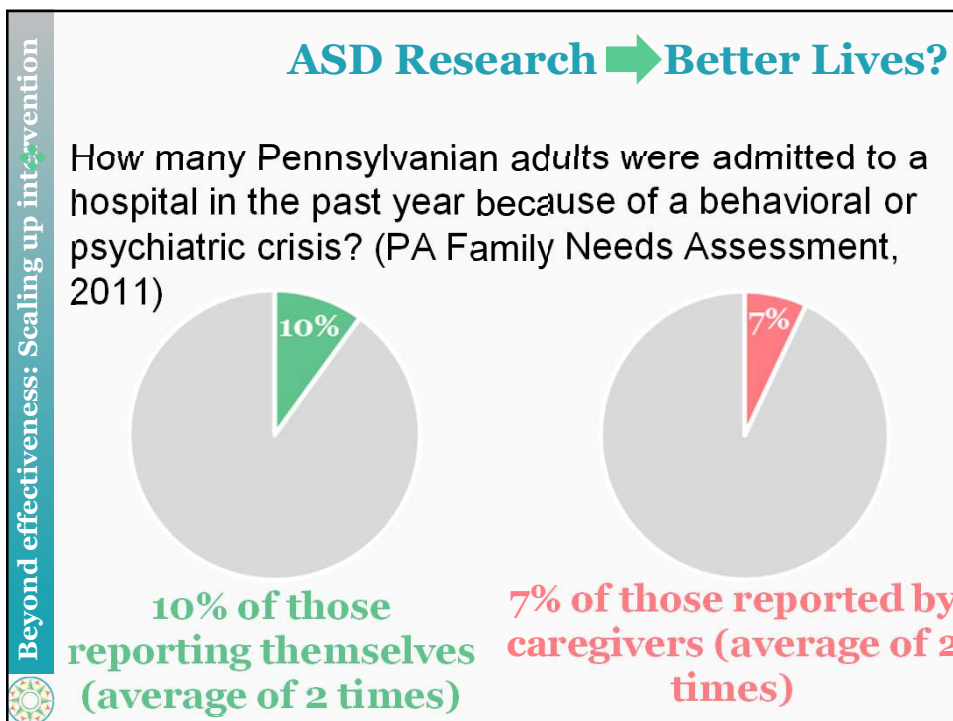
ASD Research → Better Lives?

- ❖ An emerging story in ASD: Many practices that appear to be quite effective are not widely implemented
- ❖ PA Autism Census (2009)

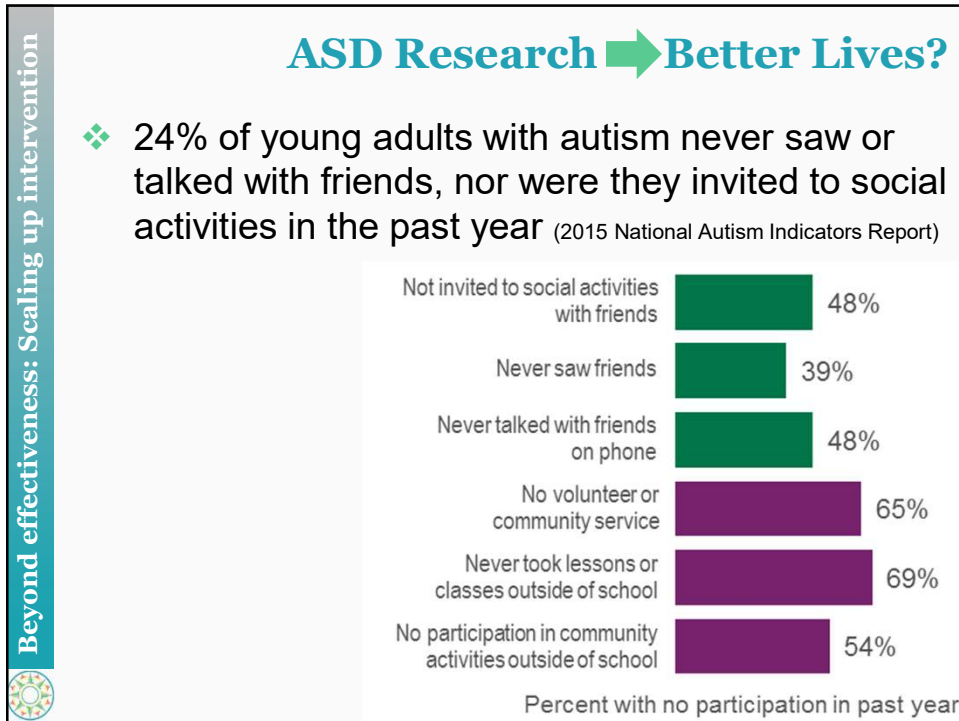
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Beyond effectiveness: Scaling up intervention

ASD Research → Better Lives?

- ❖ What kind of research and scholarship do we need to implement what we have learned to benefit more people?

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Beyond effectiveness: Scaling up intervention

A Roadmap for Implementation

- ❖ Outcomes only change through better services and supports
- ❖ Impact of research on services & outcomes is mediated by
 - Training
 - Policy
 - Advocacy

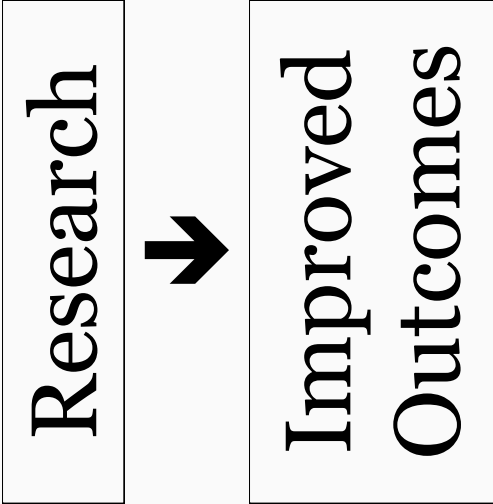


Autism Services Across America
Road Maps for Improving State and National Education, Research, and Training Programs
PETER DOEHRING
Foreword by Fred Volkmar

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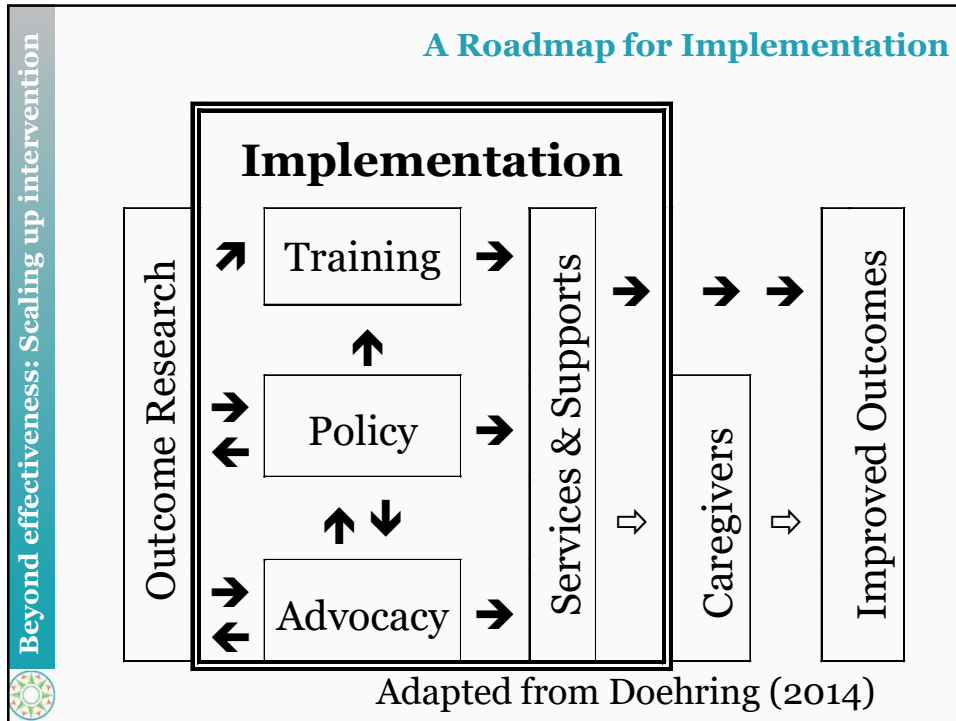
Beyond effectiveness: Scaling up intervention

A Roadmap for Implementation

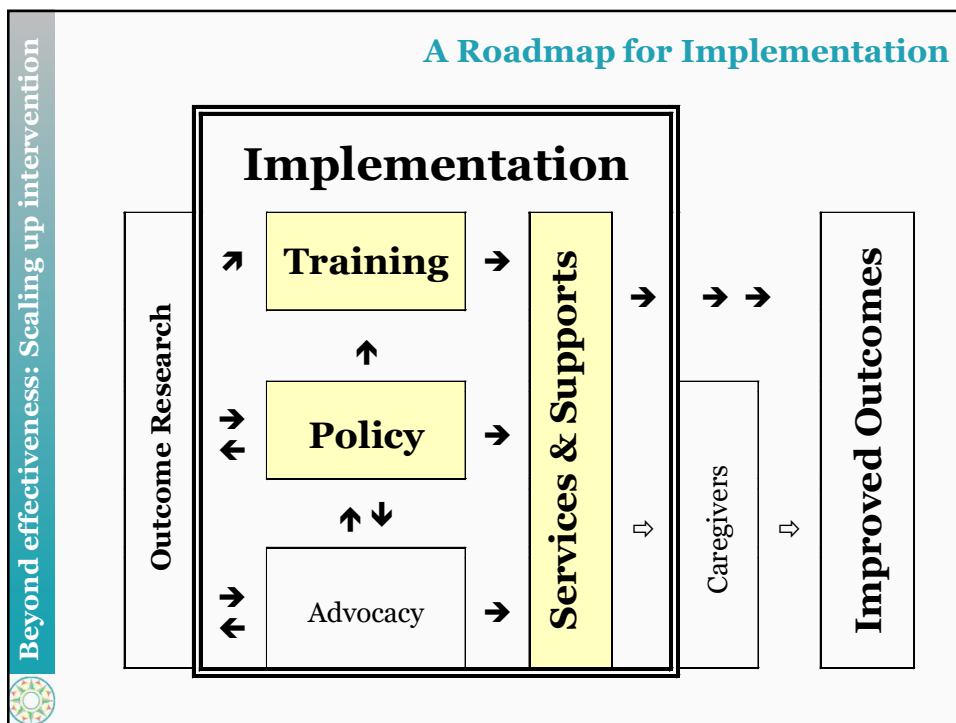


Research → Improved Outcomes

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Beyond effectiveness: Scaling up intervention


BEYOND EFFECTIVENESS

- ❖ So far, we have focused on outcome research that tests the effectiveness of practices

Effective Practices Lead to **Important Outcomes**

Delivered by Programs that are
Replicable, Sustainable, AND Accessible,

To become Scalable, to meet the needs of
the entire population of people with ASD



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Beyond effectiveness: Scaling up intervention

BEYOND EFFECTIVENESS


Effective+Important

↓

Replicable+Sustainable+Accessible

↓

Scalable




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Beyond effectiveness: Scaling up intervention

BEYOND EFFECTIVENESS

Practices ready for launch

- ❖ Practices ready to move beyond effectiveness
 - ASD screening and diagnoses
 - Individualized positive behavior support:
- ❖ How do we know these are ready?
 - Many of the procedures and tools have been developed and tested
 - Many examples of effective implementation at individual sites across the country




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Beyond effectiveness: Scaling up intervention

EFFECTIVE PRACTICES

Evidence-Based Practice Guidelines

- ❖ Systematic reviews of high quality outcome research to identify specific methods that have a clear impact
 - Agree on definition of high quality research
 - Disagree on comprehensive programs
- ❖ See also guidelines for timely identification published by different organizations
- ❖ Practice guidelines: A new training tool?
- ❖ But are useless without data-based decision making at the individual and program level




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Beyond effectiveness: Scaling up intervention

EFFECTIVE PRACTICES

Populations and Targets

- ❖ Early mistakes: Overgeneralization
 - Whole disciplines (like ABA) are not EBP
- ❖ Research must clarify which populations the practice applies to ?
 - All ages?
 - All skill levels? Any prerequisite skills?
- ❖ What targets is the practice applicable to?
- ❖ Practitioners need clear guidelines re how to generalize beyond the populations and practices originally studied




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Beyond effectiveness: Scaling up intervention

IMPORTANT OUTCOMES

Leading to **BIG** outcomes

- ❖ How important are the outcomes targeted?
- ❖ Problem: Many peoples with ASD struggle to achieve BIG outcomes, like fulfilling work, independence, satisfying relationships, health and well-being
 - And we lack research to demonstrate which practices help to achieve big outcomes?
 - Accurate identification, timely & effective behavior support are absolutely critical
- ❖ Demonstrating big impact fuels advocacy



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REPLICABLE PRACTICE

Fidelity of practice and program

- ❖ So far, treatment fidelity for specific practices been desired but not required for high quality research
 - Well-designed tools will naturally facilitate training and dissemination
 - Need to demonstrate capacity to train trainers
- ❖ Challenges
 - Behavior support must be very individualized
 - We need a reliable diagnostic protocol for community practitioners

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SUSTAINABLE PRACTICE

Treatment intensity

- ❖ What is the “dose” needed to achieve the desired effect? Research questions include
 - How long each day? Over how many days?
 - What kind of staffing do you need? Delivered individually or in a group?
 - Training/supervision time/resources needed?
- ❖ Amount and type of staffing will drive cost

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ACCESSIBLE PROGRAMS

Delivered to diverse communities

- ❖ Must integrate the practice into existing programs of services to ensure access
 - School? Home? Community
- ❖ Must include programs for traditionally underserved groups
 - Address any barriers related to race/ethnicity, education, income, and so on
- ❖ Scholarship to describe how this is done

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SCALABLE PROGRAMS

Experts and Leaders


- ❖ Expert practitioners who can
 - Work with parents and different professionals
 - Develop into coaches and trainers
 - Assimilate new research findings
 - Get a head start with post-graduate training
- ❖ Leaders
 - Coordinate policy/program development
 - Few relevant training programs
- ❖ How do you build the training infrastructure to create experts and leaders?

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Beyond effectiveness: Scaling up intervention

SCALABLE PROGRAMS
Networks

- ❖ No one person or center will do it all
- ❖ Mobilize for system change with the help of
 - Advocacy organizations
 - Agency and government leaders
- ❖ Implement system change with better collaboration across agencies
 - In health, education, community services
 - At local, state, (and sometimes federal) level
 - That conduct research, provide training, deliver community services, and set policy



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Beyond effectiveness: Scaling up intervention

RESEARCH & SCHOLARSHIP NEEDED
More Implementation Research

Basic Research

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Outcome Research

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Implementation Research

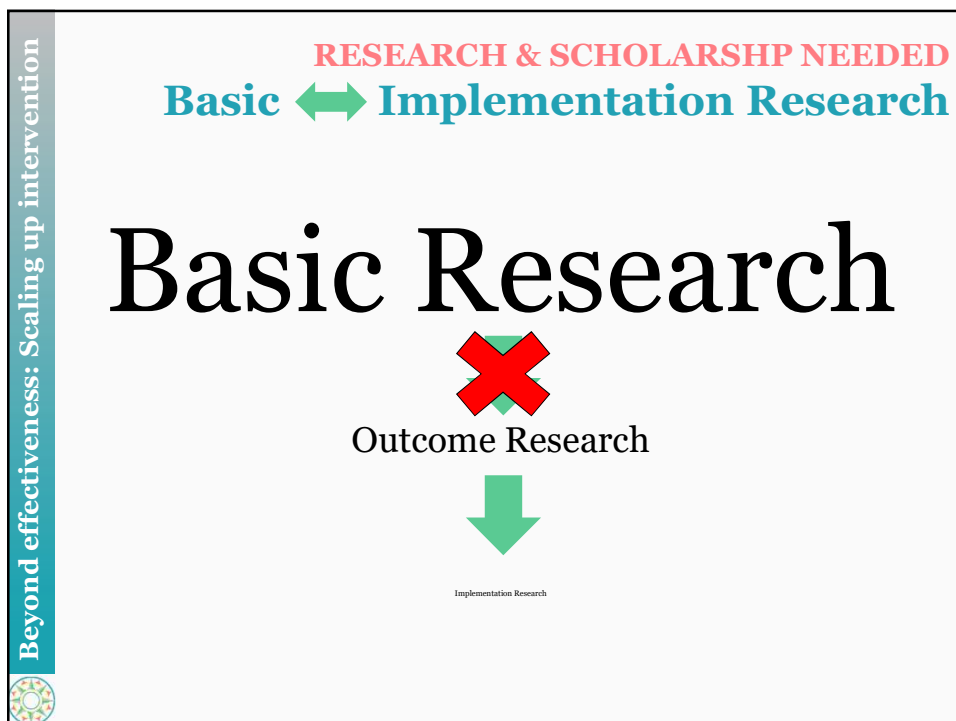
Adapted from Doehring (2013)



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