

#### Panel 2. Assessment and Evaluation: Methods To Drive Best Practices

Ricardo Paes de Barros

Greg Welch Michelle Howell Smith



### Methodological Rigor in Early Childhood Research and Evaluation

Greg W. Welch, Ph.D. Director, Nebraska Bureau for Education Research, Evaluation and Policy

### Overview

- Question to Consider
- Historical Context
- Convergence of Evaluation and Research
- Contemporary Practices
- Methodological Debate
- Quantitative Tidbits
- A Note on Fidelity
- Moving Forward



### Question to Consider



#### Framing the Topic

• What counts as *credible evidence* in the Early Childhood research and evaluation?



### Historical Context



#### **Evaluation Roots**





#### **Experimenting Society**



The Accidental Evaluator





# Convergence of Evaluation and Research



#### **Evaluation Research**



\* http://aea365.org/blog/john-lavelle-on-describing-evaluation/



### Contemporary Practices



#### United States Center for Disease Control and Prevention





#### CDC – Credible Evidence is...

 Compiling information that stakeholders perceive as trustworthy and relevant for answering their questions. Such evidence can be experimental or observational, qualitative or quantitative, or it can include a mixture of methods. Adequate data might be available and easily accessed, or it might need to be defined and new data collected. Whether a body of evidence is credible to stakeholders might depend on such factors as how the questions were posed, sources of information, conditions of data collection, reliability of measurement, validity of interpretations, and quality control procedures.



### At the Forefront of Effectiveness

• The Cochrane Collaboration

– <u>http://www.cochrane.org/</u>

The Campbell Collaboration

 <u>http://www.campbellcollaboration.org/</u>

• The What Works Clearinghouse

<u>http://ies.ed.gov/ncee/wwc/default.aspx</u>



#### WHAT IS THE WWC?

A TRUSTED SOURCE ABOUT WHAT WORKS IN EDUCATION





#### **WWC Standards**

What Works Clearinghouse

Procedures and Standards Handbook, Version 3.0

#### Figure III.1. Determinants of a WWC Study Rating



\* http://ies.ed.gov/ncee/wwc/documentsum.aspx?sid=19



#### **Randomized Control Trials**





## Methodological Debate



#### **RCTs Golden?**

• American Evaluation Association DISAGREED!





#### Michael Scriven

"To insist we use RCTs is simply bigotry ... not pragmatic and not logical. In short, it is a dogmatic approach that is an affront to scientific method." (Scriven, 2009)







#### **Claremont Evaluation Debate**

Determining Causality in Program Evaluation & Applied Research: Should Experimental Evidence be the Gold Standard?

Mark W. Lipsey, Michael Scriven, Stewart I. Donaldson



#### Michael Quinn Patton

"The issue of what constitutes credible evidence isn't about to get resolved. And it isn't going away. This book explains why. The diverse perspectives presented are balanced, insightful, and critical for making up one's own mind about what counts as credible evidence. And, in the end, everyone must take a position. You simply can't engage in or use research and evaluation without deciding what counts as credible evidence. So read this book carefully, take a position, and enter the fray." (Patton, 2009)



### Quantitative Tidbits



#### Lies, Damned Lies and...





### A Note on Fidelity



### Fidelity



## Moving Forward



#### What Now?





#### So, I should consider...

Methodological Appropriateness as Rigor

Context is important

• **Empirically** Based Practices



#### **Critical Decisions**

• *Credible Evidence* should be priority #1!

- Stakeholder Involvement and Expectations
- Methodological options
  - DESIGN, DESIGN, DESIGN
  - Data Integrity
  - Quantitative (and Qualitative) Methods
- Dissemination





### **Thank You**