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"RCTs can answer questions about the efficacy of screening, preventive, and therapeutic interventions... Observational studies are generally the most appropriate for answering questions related to prognosis, diagnostic accuracy, incidence, prevalence, and etiology (Chou and Helfand, 2005; Tatsioni et al., 2005). Cohort studies and case series are useful for examining long-term outcomes because RCTs may not monitor patients beyond the primary outcome of interest or for rare outcomes because they generally have small numbers of participants. Case series are often used, for example, to identify the potential long-term harms of new types of radiotherapy. Similarly, the best evidence on potential harms related to oral contraceptive use (e.g., an increased risk of thromboembolism) may be from nonrandomized cohort studies or casecontrol studies (Glasziou et al., 2004)." (IOM, 2008, p. 91)

KNOWING WHAT WORKS IN HEALTH CARE

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Pluralist Pragmatist View of Evidence Hierarchies

American Educational Research Association

While we appreciate the value of experimental designs as an evaluation method, we believe that a judgment of "best," as specified in the proposed language, does not adequately account for other methods of evaluation that might be as or more appropriate depending on the specific education program.

American Educational Research Association, (2003). Resolution on the Essential Elements of Scientifically-based Research. http://www.eval.org/doeaera.htm

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Evaluation Policy Task Force (2008). Comments on What Constitutes Strong Evidence of a Program's Effectiveness? American Evaluation Association. http://www.eval.org/aea08.omb.guidance.responseF.pdf

Reformulating the Evidence Hierarchy Debate

- This struggle has been difficult
- It doesn't need to be this hard
- The danger right now is *overadvocacy* of RCTs as the basis of evidence
- The problem is not *whether* to use RCTs, it's *when* they should be used in the life of a program
- Or in other words a major problem is...

Premature Experimentation

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How does the move to an evidence focus influence our thinking about evaluation? • Suggests that we need a *reframing* of evidence in evaluation Premise: a fundamental problem with the overadvocacy of RCTs is that the proponents have only <u>selectively adopted</u> what makes the biomedical research model so effective - They have adopted the emphasis on RCTs as a scientifically rigorous way to assess program effectiveness But they have not adopted the entire supporting system that has made that possible - The supporting system of evidence norms and phased trials that provide a necessary foundation for RCTs There is a scientific rigorous basis for adopting this broader system that preserves a central role for RCTs but *puts them in their appropriate place* in the larger evidence-generating endeavor... 24









What role does evaluation play in generating or creating evidence and in influencing this movement?

- Intervention trials to generate evidence are evaluation research
- Evaluation for understanding the process of research-practice integration and translation (moving from research → synthesis → use)
- Evaluation can help assess dissemination approaches
- Evaluation as a profession can add a measured voice to the debates about evidence, especially with respect to methods. We can and should help shape *policies* about evidence generation.

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Conclusions

- Evaluation needs to understand the evidence movement and actively shape it based upon our experience
- Evaluation should embrace an evolutionary, ecological, systems-oriented perspective
 - It is based on a solid scientific foundation (there's almost no stronger theory out there than evolution!)
 - It provides a framework for viewing <u>an</u> evaluation as contributing to a broader evolution of knowledge
 - It provides a rationale for why multiple and different methods are needed throughout the life of an intervention
 - It provides an appropriate role for RCTs
- Evaluation needs to develop our own evidence base and model these values

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