## What Are Embedded PCTs?

Emily O'Brien, PhD Associate Professor of Population Health Sciences Department of Population Health Sciences Duke University School of Medicine

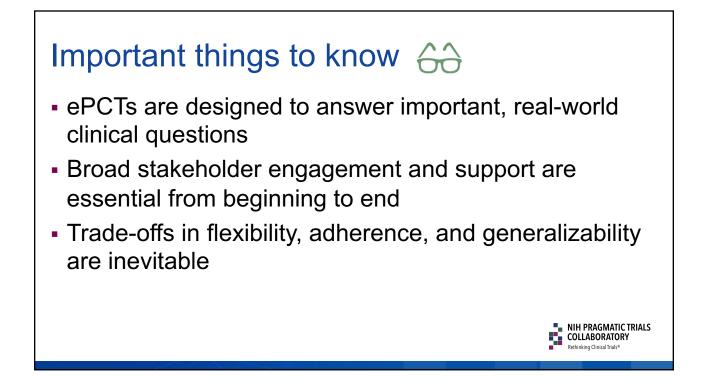
## Learning goals

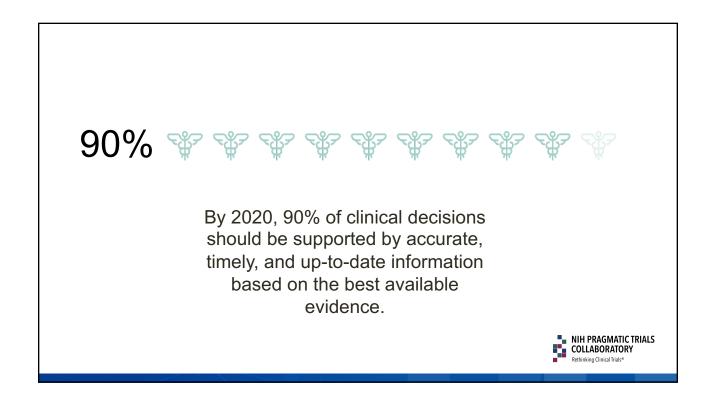


- Identify key considerations in the design and conduct of ePCTs and how they differ from explanatory trials
- Learn about the advantages and disadvantages of ePCTs, when a pragmatic approach can be used to answer the research questions

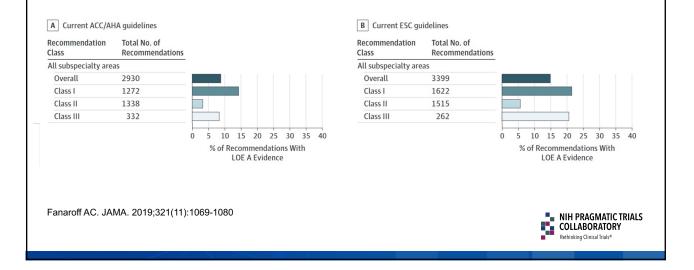


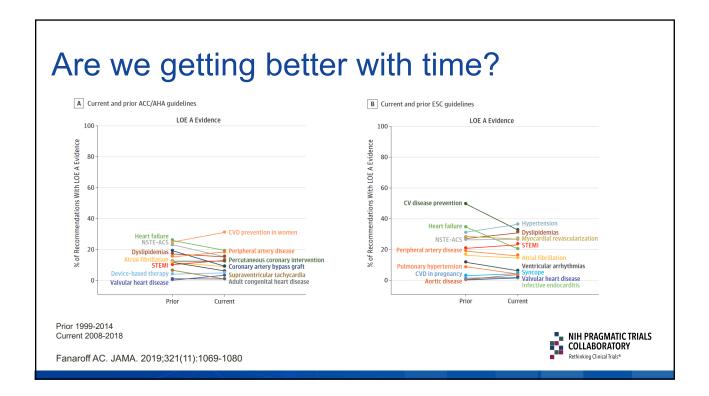
NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials®





# What % of recommendations in current ACC/AHA and ESC guidelines are Level A\*





### If healthcare were like...

Banking





Home building

ATM transactions would take not seconds but perhaps days or longer as a result of unavailable or misplaced records. Carpenters, electricians, and plumbers each would work with different blueprints, with very little coordination.

Shopping

Product prices would not be posted, and the price charged would vary widely within the same store, depending on the source of payment

Car manufacturing

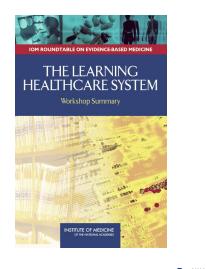
Warranties [covering] defects would not exist...so few factories would seek to monitor and improve production line performance and product quality Airline travel



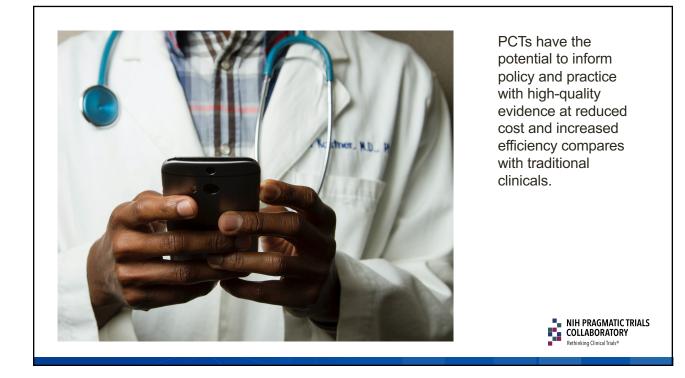
Each pilot would be free to design his or her own preflight safety check, or not to perform one at all

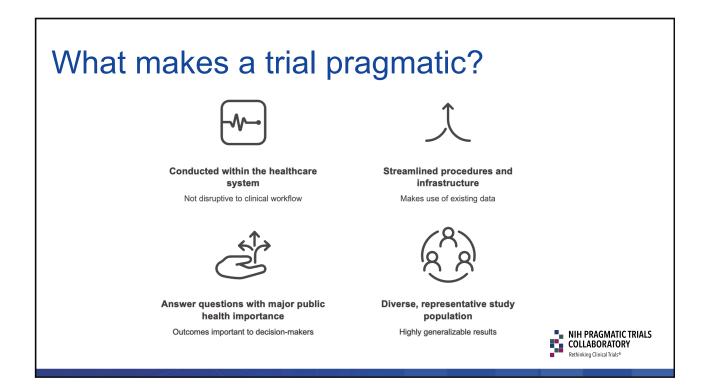
> NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials\*

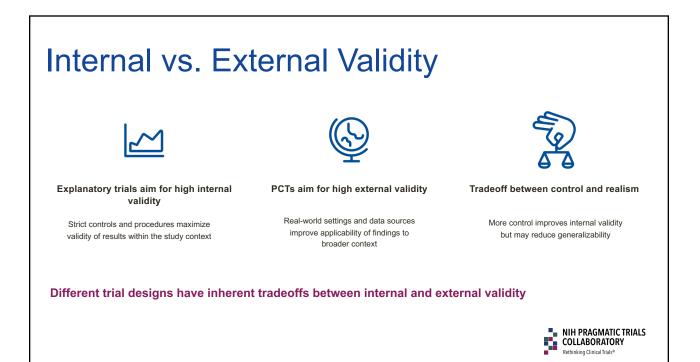
Change requires "leaders to consider rigorous evidence generation a core function of ordinary health care, research funders to prioritize practical questions relevant to population health and to support infrastructure for embedded research."

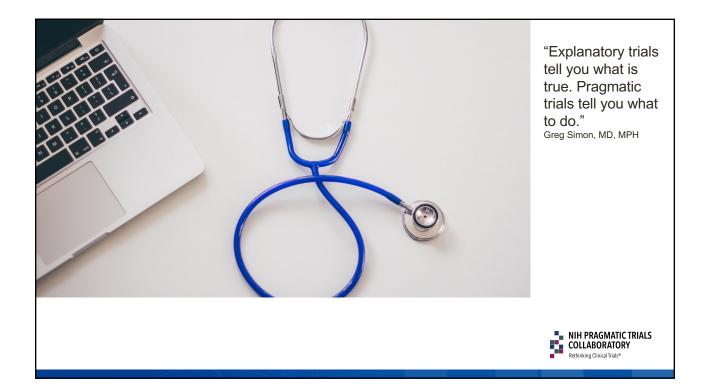


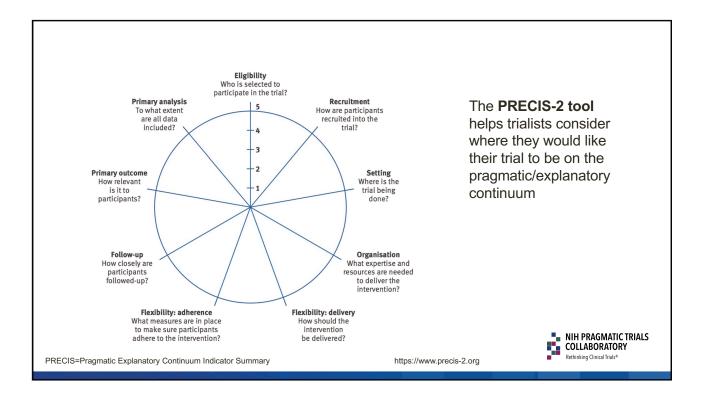
NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials®

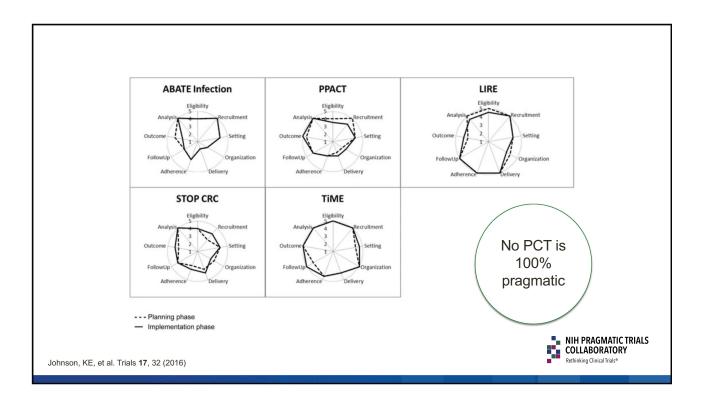


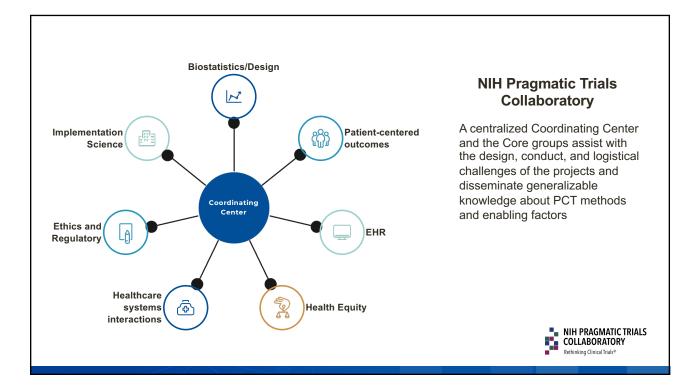


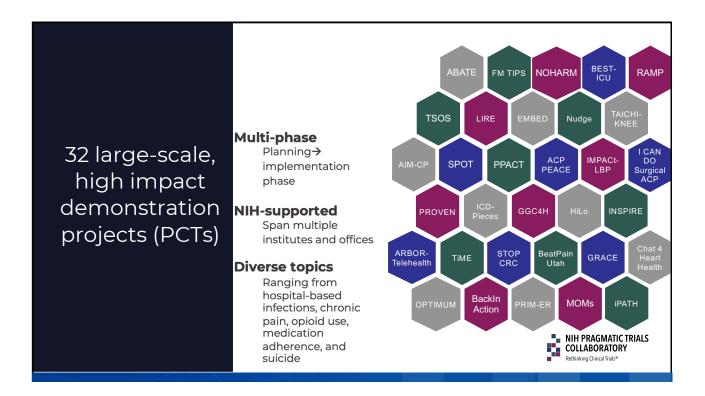


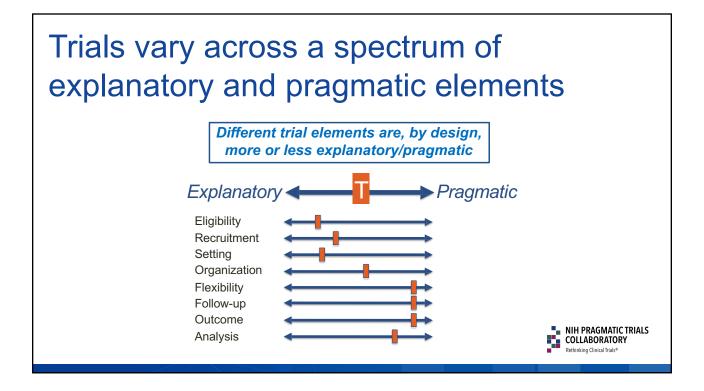












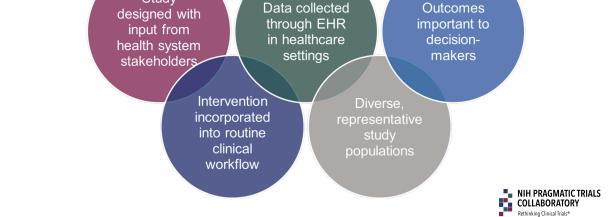
# <section-header>

COLLABORATORY Rethinking Clinical Trials®

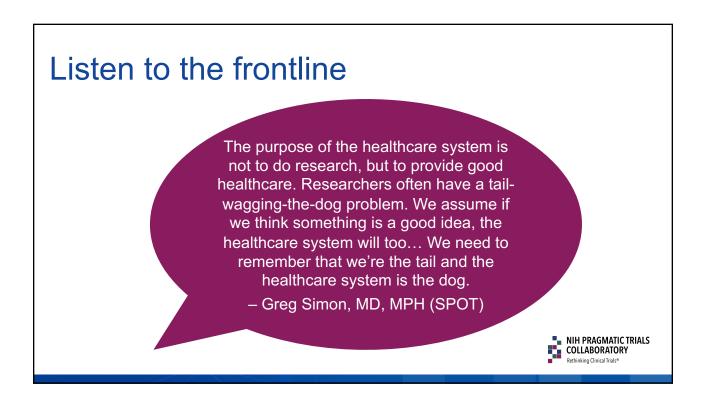
## ePCT characteristics

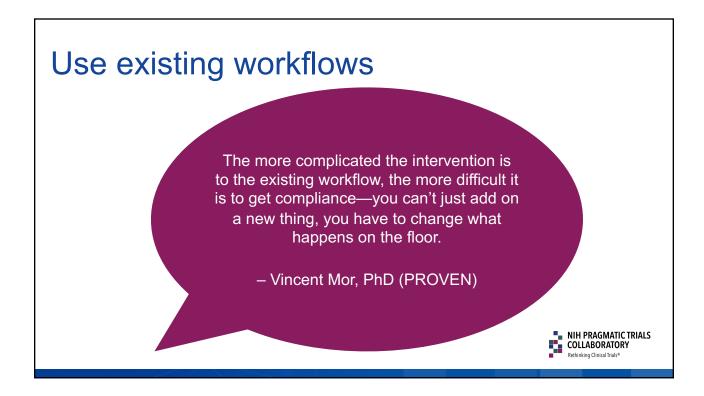
- Conducted within healthcare systems
- Use streamlined procedures and existing infrastructure
- Answer important medical questions











## It's a balancing act



Achieving both relevance and efficiency is a goal of pragmatic trials, yet high relevance to real-world decision-making may come at the expense of trial efficiency

> NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials®

For example, a trial measuring outcomes that matter most to patients and health systems may not be able to rely exclusively on information from the EHR, and instead need to assess patient-reported outcomes, which is more expensive and less efficient

## Important things to do

- Set expectations to work collaboratively and build trust from the beginning
- Get to know your partners' values, priorities, and expectations
- Assess your partners' capacity and capabilities
- Track goals reached, challenges, and adaptations throughout the lifecycle of your ePCT
- Show appreciation and celebrate accomplishments early and often to have sustained partnerships

NIH PRAGMATIC TRIALS COLLABORATORY Rethinking Clinical Trials\*

