

An Academic Research Perspective

Daniel Ford, MD, MPH
Vice Dean for Clinical Investigation
Director, Institute for Clinical and
Translational Research
Johns Hopkins Medicine

Clinical Researchers Have Choices

- Database observational studies
 - Dependent on statistical colleagues
 - Need to be comfortable with data that are less precise
 - Not easy to investigate biological pathways
 - Relatively short time from inception to completion
 - Less regulated (clinicaltrials.gov registration, need to publish all results)

Clinical Researchers Have Choices

- Standard Randomized Clinical Trials
 - Need commitment to recruitment and data collection
 - May include investigation of biological pathways
 - Highly regulated
 - Analysis relatively uncomplicated
 - Conclusions high impact

Who is the target for research report?

- Different stakeholders – regulators, payers, clinicians, patients
- Observational methods much more difficult to explain than usual randomized clinical trial
 - Has anyone changed practice because they thought the propensity matching was outstanding
- Health systems tempted to make decisions based on their own data

Clinical Researchers Have Choices

- Innovative clinical trial designs like pragmatic designs or cluster randomized designs
 - Need to get cooperation of health system and health care providers
 - Need to incorporate EMR-IT data sources
 - If cluster design without required consent, conduct of study can be relatively easy
 - Analysis more complicated than standard randomized clinical trial