Session 4 Panel Discussion

Questions:

- How do we fill evidence gaps in care and prevention using epidemiology?
- What is the role of observational epidemiology in a "data rich" environment where randomized clinical trials may not always be feasible?

Moderator: Sheri D. Schully, Ph.D., EGRP, DCCPS, NCI

Panelists:

- Barnett Kramer, M.D., M.P.H. Division of Cancer Prevention, NCI
- Michael Lauer, M.D.
 - Division of Cardiovascular Sciences, National Heart Lung and Blood Institute (NHLBI)
- Jeffrey A. Meyerhardt, M.D., M.P.H. Harvard Medical School
- Olufunmilayo I. Olopade, M.D. F.A.C.P. University of Chicago

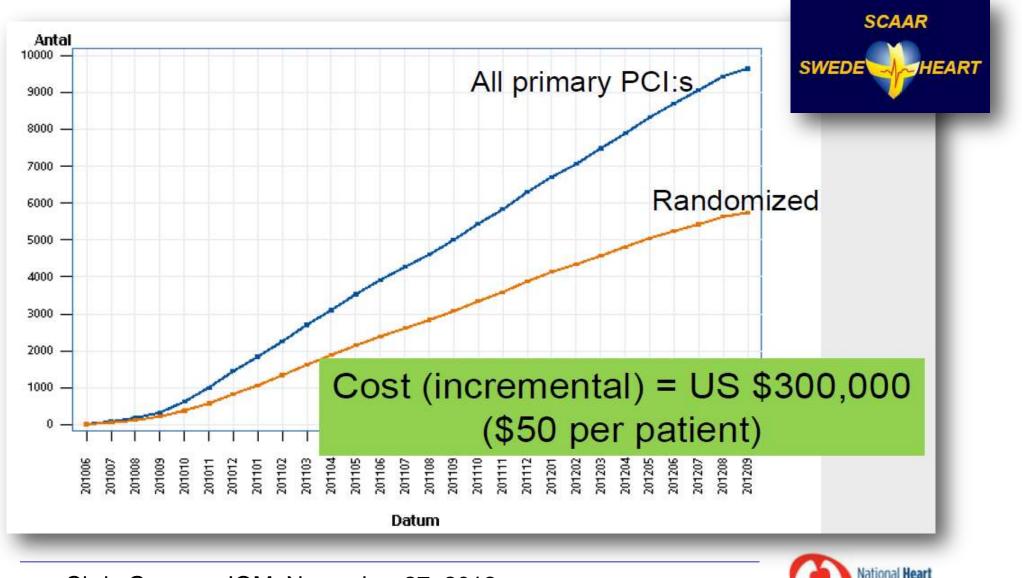
Barnett Kramer, M.D., M.P.H. Division of Cancer Prevention, NCI

Description of Evidence in PDQ: Five Domains

- 1. Study design: ranked by design strength
- 2. Internal validity: "quality" of execution within study design (good, fair, poor)
- 3. Consistency (coherence)/volume of evidence
 - One vs. multiple studies
 - Small vs. large studies
 - Consistent direction of outcomes
- 4. Magnitude of effects: prefer absolute vs. relative effects
 - Change from 1% to 0.5%, or from 4/1000 to 2/1000
 - Not: 50% decrease
- 5. External validity (good, fair, poor)
 - Applicability in usual practice with same effect?

Michael Lauer, M.D. Division of Cardiovascular Sciences National Heart Lung and Blood Institute

Trends in Epidemiology (M. Lauer, NHLBI)

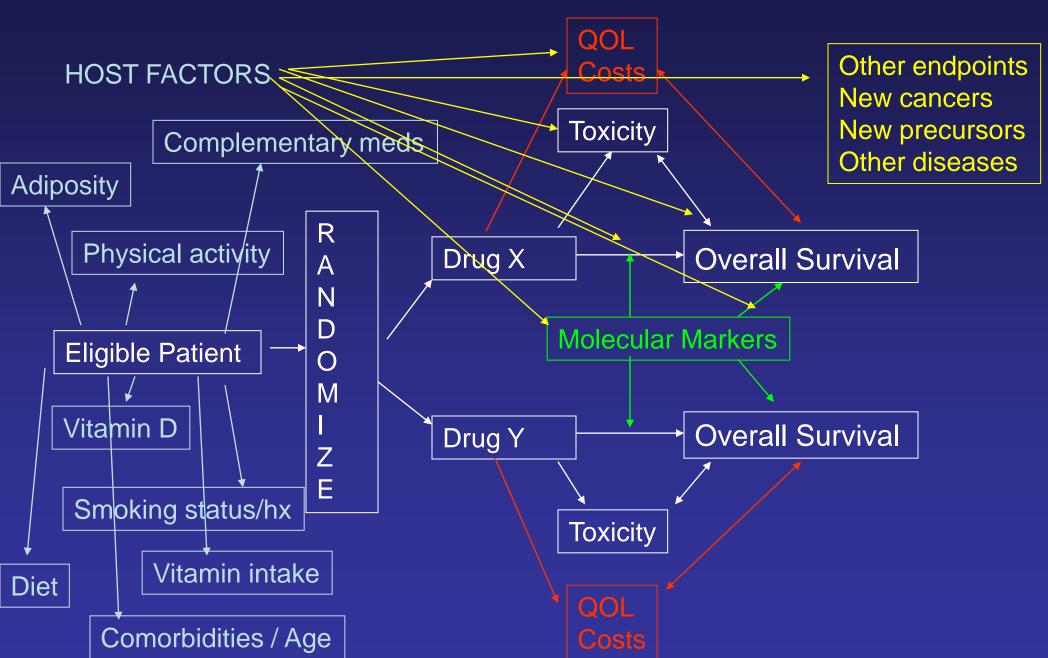


and Blood Institute

5 Chris Granger, IOM, November 27, 2012

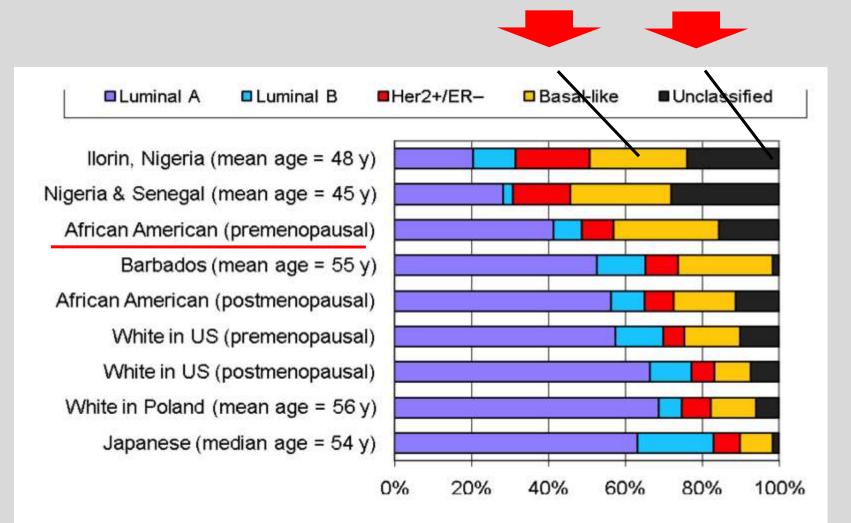
Jeffrey A. Meyerhardt, M.D., M.P.H. Harvard Medical School

Integrating Epidemiology into Randomized Clinical Trials



Olufunmilayo I. Olopade, M.D. F.A.C.P. University of Chicago

Population Differences in Breast Cancer: Survey in Indigenous African Women Reveal Overrepresentation of Triple Negative Breast Cancer.



Huo D, Ikpatt OFR et al. JCO 27:4515-21, 2009 Data abstracted from Adeniji et al. ASCO Proceedings 2010, Yang et al 2007, Kurebayashi et al. 2007