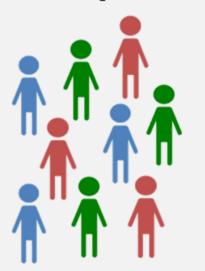
Decision Tools to Improve Personalized Care in Cardiovascular Disease



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Average Treatment Effect Assessed in a Heterogeneous Population

Conventional presentation of randomized clinical trial results focuses on average treatment effects, despite a potentially wide range of treatment responses among patients.

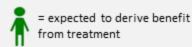




estimation of average treatment effect



The resulting estimate may not accurately describe the expected response for individual patients.





= expected to have an equivocal response



= expected to be harmed by treatment



= response in the "average"

Identification of Heterogeneous Responses to Treatment

Analysis of data that allows for the identification of subgroups of patients with the most to gain or lose from treatment can serve as the basis for new personalized decision tools.





patient population based on treatment response



Figure adapted from the ideas of John A. Spertus, MD, MPH

Kramer and Yeh. Circulation March 2017

