

- Articulate and Apply causal idea from a counterfactual perspective.
- Develop testable research hypotheses from a causal theory.
- Articulate the principles of basic observational study designs
- Relate these principles to the definition of a cause.
- Recognize and explain the effects of non-comparability.
- Identify sources of, and Methods to avoid, invalidity in epi research
- Choose Study designs that can test research hypothesis
- Select statistical tests appropriate for the study design and research hypothesis
- Test Research hypothesis using basic statistical techniques
- Draw and Read a Directed Acyclic Graph
- Recognize complexity in drawing conclusions about etiology and intervention.

— Be cognizant of ethical issues in conducting and disseminating epi research.