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Jerome Cornfield: Statistical Relationships And Proof In Medicine.
American Statistician 1954; 8:19-21.

Jerome Cornfield's "Statistical Relationships and Proof in Medicine" is a contemporary of and fitting complement to Hill's "Observation and Experiment." Here again the (then) controversial smoking-lung cancer relation may be seen as a driving force leading an eminent biostatistician to defend nonexperimental methods. And here again one can see the foreshadowing of issues raised twenty years later in the discussion of Popper's philosophy—this time in the recognition that proof does not exist in empirical science. Cornfield also took care to point out the limitations of experimental randomization, and the consequent importance of considering alternative explanations of results when planning or interpreting any study.