

## Epidemiology Study Design And Data Analysis

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In epidemiology, researchers are interested in measuring or assessing the relationship of exposure with a disease or an outcome. As a first step, they define the hypothesis based on the research question and then decide which study design will be best suitable to answer that question. How the investigation is conducted by the researcher is directed by the chosen study design.

### **Epidemiology Of Study Design - PubMed**

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**Epidemiologic Study Designs** •Descriptive studies –Seeks to measure the frequency of disease and/or collect descriptive data on risk factors •Analytic studies –Tests a causal hypothesis about the etiology of disease •Experimental studies –Compares, for example, treatments

### **Epidemiologic Study Designs**

In this article, I present a simple classification scheme for epidemiological study designs, a topic about which there has been considerable debate over several decades. I will argue that when the individual is the unit of analysis and the disease outcome under study is dichotomous, then epidemiological study designs can best be classified according to two criteria: (i) the type of outcome under study (incidence or prevalence) and (ii) whether there is sampling on the basis of the outcome.

### **Classification of epidemiological study designs ...**

**Epidemiology - Epidemiology - Sources of epidemiological data:** Epidemiologists use primary and secondary data sources to calculate rates and conduct studies. Primary data is the original data collected for a specific purpose by or for an investigator. For example, an epidemiologist may collect primary data by interviewing people who became ill after eating at a restaurant in order to identify which specific foods were consumed.

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### **Epidemiology: Study Design and Data Analysis, Third ...**

Epidemiologists help with study design, collection, and statistical analysis of data, amend interpretation and dissemination of results (including peer review and occasional systematic review). Epidemiology has helped develop methodology used in clinical research , public health studies, and, to a lesser extent, basic research in the biological sciences.

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