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Epidemiology

Study Types:

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\u0026

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study design

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~~Part 3 - Cross~~

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!!!! Case
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Study\".

In 10 Minutes

!!!! **Choosing**

which

statistical test

to use -

statistics help.

Relative Risk

\u0026 Odds

Ratios RCT vs

Cohort study

types of study

design **Cohort vs**

case control

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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

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Epidemiologic

Study Designs

- Descriptive studies - Seeks to measure the frequency of disease and/or collect

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- Analytic studies - Tests a causal hypothesis about the etiology of disease
- Experimental studies - Compares, for example, treatments

**Epidemiologic
Study Designs**

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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

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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)

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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**

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••• Epidemiology -

Study Design -

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And Data

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epidemiological
data:

Epidemiologists
use primary and
secondary data
sources to
calculate rates
and conduct
studies. Primary
data is the

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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
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Sources of
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Epidemiology -

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To successfully

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that subjects
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required, are
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needed to

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collected and

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presented, the
emphasis is
consistently on
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