By the end of the course, the participant should:

1. Understand the concept of a statistical model and how such models correspond to specific hypotheses or questions,
2. Be able to interpret the results of an analysis in relation to the original questions or hypotheses that motivated the analysis,
3. Be familiar with basic data analysis methods commonly used in health sciences.

1. Review of introductory statistics from the pre-requisite course: Hypothesis testing, estimation, and confidence intervals for means and proportions.
2. Review of basic concepts of probability, with applications including diagnostic testing, sensitivity and specificity, the relative risk, and the odds ratio.
3. Contingency tables: The Chi-square test, r x c tables, multiple 2x2 tables, Simpson's paradox, Mantel- Haenszel method.

A hard copy of the book is available

An e-version of the book is available

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