



## **NETWORK CANCER AID AND RESEARCH FOUNDATION**

### **PG DIPLOMA IN BIOMEDICAL RESEARCH**

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#### COURSE CONTENT

##### **Conceptualizing a research study**

- 1 Introduction to health research
- 2 Formulating research question, hypothesis and objectives
- 3 Literature review

##### **Epidemiological considerations in designing a research study**

- 4 Measures of disease frequency
- 5 Descriptive study designs
- 6 Analytical study designs
- 7 Experimental study designs
- 8 Validity of epidemiological studies
- 9 Qualitative research methods: An overview

##### **Bio-statistical considerations in designing a research study**

- 10 Measurement of study variables
- 11 Sampling methods
- 12 Calculating sample size and power

## **Planning a research study**

- 13 Selection of study population
- 14 Study plan and project management
- 15 Designing data collection tools
- 16 Principles of data collection
- 17 Data management
- 18 Overview of data analysis