

Training on Research Design, Data Management, and Statistical Analysis using SPSS

The Institute of Community and Public Health (ICPH) / Birzeit University (BZU)

Training Agenda

Day 1 – Monday: 20 March 2023

9:00 – 10:30

Introduction to Research

- Introduction to research
- Different types of research
- Formulation of research question
- Formulation of research hypothesis

10:30 – 10:45

Coffee Break

10:45 – 13:00

Research Design

- Quantitative Research Approaches
 - Designs
 - Sampling
 - Data collection tools
- Qualitative Research Approaches
 - Designs
 - Sampling
 - Data collection tools

13:00 – 13:30

Lunch

Day 2 – Tuesday: 21 March 2023

9:00 – 10:30

Introduction to data in healthcare

- The importance of data in healthcare
- Types of health data
- Sources of health data

10:30 – 10:45

Coffee Break

10:45 – 13:00

Introduction to SPSS statistical software

- SPSS interface and features
- Key terminologies used in SPSS
- Views: Variable, Data views, Syntax editor
- Data file preparation
- Data entry into SPSS

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- Data manipulation: merge files, split files, sorting files, missing values

13:00 – 13:30 Lunch

Day 3 – Wednesday: 22 March 2023

9:00 – 11:00 Basic Statistics using SPSS

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- Descriptive statistics for numeric variables
 - Frequency tables
 - Distribution and relationship of variables
 - Cross tabulations of categorical variables

11:00 – 11:15 Coffee Break

11:15 – 13:00 Statistical Tests using SPSS

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- One Sample T-Test
 - Independent Samples T-Test
 - Paired Samples T-Test
 - One-Way ANOVA
 - Chi-Square test

13:00 – 13:30 Lunch
