Participation:

Medical researchers, Healthcare professionals and Graduate Medical students (Basic knowledge of statistics and SPSS is needed)

Language: English and Arabic

Instructors:
Professor Faisal Al-Nasir (Family Medicine)
Dr. Khaldoon Al-Roomi (Epidemiology)
Dr. Ahmed Jaradat (Biostatistics)

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Arabian Gulf University

Fees: BHD 200.00

Registration Deadline:
Registration fees should be paid before 7 April. 2011

INQUIRIES & REGISTRATION

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Arabian Gulf University
Manama, Kingdom of Bahrain
College of Medicine and Medical Sciences
20 – 21 April. 2011

Objectives:

The aim of the workshop is to introduce basic statistical concepts and methods commonly used in medical and public health research.

By the end of the workshop, participants will be able to:

- Select and use appropriate statistical methods in the analysis of research topics.
- Understand and interpret SPSS output from statistical analyses.
- Present findings based on statistical analysis in a clear, concise and understandable manner.
Introduction

This workshop aims to help participants get more out of the data they possess by using inferential statistics. You will learn how to go beyond just describing your data in terms of averages and percentages to making decisions about whether or not the findings from your data are significant. This workshop will show you how to select the proper statistical technique, test for statistical significance and how to interpret the data output in a manner relevant to your business. Participants will learn the concepts and techniques needed to be able to carry out these statistical analyses on their own.

Topics

- Basic Concepts of Statistics
- Comparing More Than Two Means: Analysis of Variance Procedure
  - The Function of ANOVA
  - ANOVA Calculation
  - Assumption about ANOVA
  - Post Hoc Analysis
- The Chi-Square Test
  - Types of the Chi-Square Tests
  - Test of Independence Between Two Variables
  - Test of Homogeneity
  - Test of Significance of Difference Between Proportions
  - Measures of Strength of Association
  - Fisher Exact Test
- Correlation and Multiple Linear Regression
- Nonparametric Tests
  - The Sign Test
  - The Mann-Whitney Test
  - Kruskal-Wallis Test
  - The Spearman Rank Correlation Coefficient
- Logistic Regression
- Odds Ratio