



EMIRATES SOCIETY OF EMERGENCY MEDICINE CONFERENCE

11 - 14 DECEMBER 2019 | JUMEIRAH AT ETIHAD TOWERS, ABU DHABI, UAE

Research Fundamentals Course | 11th December 2019

08:00 - 08:40 Introductory Comments: Starting with an Idea and Developing a Hypothesis

08:00 - 08:10 Meet the attendees, learn their background

08:10 - 08:25 What is a Research Hypothesis? (and How to Develop One)

08:25 - 08:30 Ethics Boards and the Sorry History of Research Abuses

08:30 - 08:55 Data Reporting and Study Designs and Levels of Medical Evidence:
(Embedded in the Barry Marshall Story, a Nobel Prize Laureate)

08:55 - 09:00 Brief Break

09:00 - 09:35 Understanding, Describing and Presenting Your Data

09:00 - 09:15 Types of Data, Descriptions of Central Tendency and Variability

09:15 - 09:25 Is Your Data Normally-Distributed? (And why this matters,
and how to tell)

09:25 - 09:35 Tips for Presentation of Your Data

09:35 - 10:00 Understanding and Using Tests for Nominal and Ordinal Data

09:35 - 09:50 Chi Square and McNemar Tests

09:50 - 10:00 Tests for Ordinal Data

10:00 - 10:15 Coffee Break

10:15 - 10:45 Tests for Normally-Distributed Data: Student t-Test and Analysis of Variance

10:15 - 10:30 Student t-Test

10:30 - 10:45 Analysis of Variance

10:45 - 11:00 Odds versus Probability and Use of Odds Ratios

11:00 - 11:05 Brief Break

11:05 - 11:35 Modeling Your Outcome using Your Data: An Overview of Regression Techniques

11:05 - 11:20 Correlation and Linear Regression

11:20 - 11:35 Multiple and Linear Regression

11:35 - 11:50 Common Errors to avoid when performing Clinical Research

11:50 - 12:00 Wrap-up and Question/Answer