Statistics Workshop for Emergency Physicians 2024

Aims
1. To review basic statistics and probability theory.
2. To learn intermediate statistics, including analysis of variance (ANOVA), simple / multiple linear and logistic regression modelling, categorical data analysis.
3. To study advanced statistical techniques, such as survival analysis and time series analysis.

Objectives
1. To apply statistical principles on analysis of various datasets by using various statistical softwares, including Microsoft® Excel®, IBM® SPSS® and RStudio®.
2. To complete and present a mini-project of analysis of real-life data by the end of the workshop.

Target Participants
1. A&E trainee doctors who are working on data from their own clinical research projects.
2. Emergency medicine specialists who like to sharpen their knowledge on statistics.

Organizers
Research Subcommittee of the Hong Kong College of Emergency Medicine

Number of Participants
Maximum 10 per class

Format of instruction
Face-to-face teaching;
Small group classroom, mini-lectures followed by practicums

Pre-requisites
1. Basic knowledge of mathematics at the level of HKCEE/HKDSE;
2. Basic computer operation/IT skills;
3. Bring your own laptop computer with the required softwares already installed;
4. Knowledge on calculus, linear algebra and computer programming is <u>not</u> required.

Venue

2/F, Hong Kong Academy of Medicine Jockey Club Building.

Fees

HK$ 4,000.00

Learning plans

1. 5 half-day sessions on 13 and 27 March, 11 and 23 April, and 8 May 2024.
2. Each class is scheduled on weekdays from 9 am to 1 pm (Total 20 teaching and learning hours).
3. Each session has two parts: lectures on statistics concepts and theories, and hands-on practicums on data analysis using statistical programmes installed on the participants' laptop computers.
4. Homework will be assigned after the first three sessions.
5. In the last session, all participants have to present a mini-project of statistical analysis either on their own research data, or on datasets provided to them.
6. Certificate of attendance will be issued to participants who:
   i. attend at least 4 classes;
   ii. score at least 70% on each of the 3 submitted homework assignments; and
   iii. obtain at least grade C on the presentation of mini-projects.

The Research Subcommittee has the right on the final decision of the issue of certificates of attendance to the participants of the workshop.

CME and Training Points

CME and TP Fellow : 3.5 PP points per session (Passive Cat 1), max 12 for whole course

Accreditation: Trainee : Cat A 3.5 points per session, max 10 for whole course