



Research Methods and Basic Biostatistics Workshop 2018

Date: 1 & 2 December 2018 (Saturday & Sunday)

Time: 8:30am - 5:30pm

Venue: Learning Suite (Building 4, Level 2)
Monash University Malaysia

Objectives

This course will reinforce basic epidemiological concepts, research skills and statistics. It aims to give participants a broad overview on how to design a research study and conduct statistical analysis.

At the end of the workshop, participants in this course should at least have some basic understanding on the study design, information on how to derive the sample size, some idea on how to choose and perform statistical analysis.

Overview

The 2-day program emphasizes the following topics:

- Introduction to research methods
- Ethics application
- Study Design
- Questionnaire Development
- Introduction to SPSS (+ Descriptive statistics)
- Sampling and Sample size
- How to choose a statistical test
- Bivariate and multivariate analysis
- Non parametric test
- Survival Analysis

For each of the statistical topic, there will be a combination of lecture and hands-on exercise using statistical software. The IBM SPSS trial version can be accessed from this website: <https://www.ibm.com/analytics/spss-trials>

Requirements:

Participants are required to bring own laptop/notebook with installed statistical software SPSS for the two-day workshop.

Registration Fee*

RM 750 per pax

RM 500 per pax (for post graduate students)

* Fee inclusive of tea breaks and lunch

Online Registration

<https://tinyurl.com/ycyf538v>

Registrations will be closed on 15 November 2018.

Registrations received after 15 November 2018 will be subjected to availability of space.

Payment Methods

1) Bank Transfer / Direct Bank in / Telegraphic Transfer

Payee Name: Monash University Malaysia Sdn Bhd
Bank Name: Public Bank Berhad
No. 48 & 50, Jalan PJS 11/28A,
46150 Bandar Sunway, Selangor, Malaysia
Account No.: 307 412 960 5
Swift Code: PBBEMYKL

2) Credit Card

http://finapps.monash.edu.my/ebpg/online_payment.php

Please register online and email the payment slip to devi.arunasalam@monash.edu

Contacts

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Speaker's profile



Dr Quek Kia Fatt *MAppStats*

Jeffrey Cheah School of Medicine and Health Sciences
Monash University Malaysia

Dr Quek is an Associate Professor with more than 15 years' experience in the field of statistics. Due to his expertise, he has served as consultant in the school/institution, providing consultation/advisor to local industries/agencies, researchers and journals. He is also widely engaged in clinical and community health research.



Dr Amutha Ramadas *PhD*

Jeffrey Cheah School of Medicine and Health Sciences
Monash University Malaysia

Dr Amutha's research interest is generally related to nutrition, with strong academic and professional training in health promotion, biostatistics, prevention and management of non-communicable diseases. She has been an academic with JCSMHS for 6 years and has been providing statistical consultation for medical professionals since 2012. She is currently pursuing a double master in Applied Statistics. Dr Amutha has since published and presented her scientific findings in various national and international journals as well as conferences. She is also an independent reviewer for several international journals.



Dr Devi Mohan *MD*

Jeffrey Cheah School of Medicine and Health Sciences
Monash University Malaysia

Dr Devi is a public health physician and epidemiologist with post-graduation in community medicine. Her research expertise is in community-based research with a special focus on geriatric neuro epidemiology. She has conducted several biostatistics and research methodology workshops for undergraduate and postgraduate medical students in Malaysia & abroad. She has also been providing statistics consultation for medical professionals from various specialities.



Dr Anne Jamaludin *PhD*

Perdana University – Royal College of Surgeons Ireland School of Medicine
Adjunct Lecturer Monash University Malaysia

Dr Anne has more than a decade experience working as a public health researcher within the field of HIV/AIDS, childhood injuries and road traffic accident with Monash University Accident Research Centre (MUARC). She has worked as consultants with international organisations such as UNICEF (Malaysia and Viet Nam) and UNAIDS prior to joining her current academic institution. She is also a registered counsellor who worked closely with local NGOs dealing with clients in domestic abuse and child abuse cases and those with psychological health issues.

Program Schedule

DAY 1 – Saturday, 1 December 2018

Time	Lecture
8.30 am – 8.45 am	Welcome Address
8.45 am - 9.30 am	Introduction to Research Methods
9.30 am – 10.00 am	Morning Tea
10.00 am -11.00 am	Ethics Application
11.00 am -12.00pm	Study Design
12.00 pm -1.00 pm	Questionnaire Development
1.00pm -2 .00 pm	Lunch
2.00 pm -3.00 pm	Sampling and Sample size
3.00 pm – 4.00 pm	Introduction to SPSS
4.00 pm -4.30 pm	Tea Break
4.30 pm -5.30 pm	How to choose a statistical test

**Note: To bring own laptop/notebook with installed statistical software SPSS*

DAY 2 – Sunday, 2 December 2018

Time	Lecture
8.30am - 9.30am	T test
9.30am -10.30am	Analysis of Variance (ANOVA)/Repeated Measures
10.30am -11.00am	Morning Tea
11.00am -12.00pm	Chi-square Test/Fisher's Exact test
12.00pm– 1.00pm	Non Parametric Test
1.00pm – 2.00pm	Lunch
2.00 pm – 3.00 pm	Correlation and Linear Regression
3.00 pm - 4.00 pm	Binary Logistic Regression
4.00 pm - 4.30 pm	Tea Break
4.30 pm – 5.30 pm	Survival Analysis

**Note: To bring own laptop/notebook with installed statistical software SPSS*