



# Biostatistics for Research (SPSS)

## *Basic/ Intermediate*

**15 – 18 March 2021**

### Introduction

Participants will gain a good introduction to biostatistical concepts and learn the essential statistical considerations in clinical trials, particularly in the context of clinical trials and other aspects of clinical research

### Pre-Requisite

- Participants should have statistical knowledge, used SPSS and have computer literacy skills such as Microsoft Windows and Excel.
- SPSS software is required for participants to practise at their own time after the course.

(This course is not suitable for beginners in statistics.)

### Course Objectives

To equip participants with the knowledge and skills to:

- design a database and perform basic data processing and analysis using SPSS; and
- use SPSS for both qualitative and quantitative analysis

(NB: Navigation of the SPSS live will not be available during the course. SPSS step-by-step guide will be included in the course notes for all course participants.)

### Target Audience

Healthcare professionals, clinicians and researchers who wish to gain a good grounding in database design and biostatistical skills.

### Course Outline

- Set up a database in SPSS and import Excel into SPSS
- Basic Descriptive, Graphs, Computing and Recoding
- Randomised Controlled Trials
  - Parallel vs Crossover, Randomisation & Blinding
- Epidemiological Studies
- Sample Size Calculations
- Univariate Analysis
  - Quantitative Data Analysis
    - Parametric vs Non-Parametric tests
  - Qualitative Data Analysis
    - Chi-square & Fisher's exact tests
    - McNemar test
  - Correlation
    - Pearson's vs Spearman's
- Multivariate Regression
  - Linear Regression, Logistic Regression
  - Survival Analysis: Kaplan Meier & Cox Regression

### Course Details

Date	: 15 – 18 March 2021
Duration	: 4 half-days
Time	: 9.00 am – 12.30 pm
Class size	: 30 participants
Device required	: Laptop/ Desktop (with microphone, speaker and webcam)
Platform	: Zoom Cloud Meetings (Meeting details will be provided at a later date)
Fee	: <del>S\$460</del> S\$400 (SingHealth) <del>S\$510</del> S\$440 (Regular) (inclusive of 7% GST)  With VCF Funding*: S\$ 308 (Singaporean/PR) S\$ 374 (WP/EP/S Pass Holder)

\*For NCSS member agencies and MSF-funded agencies only. Should PGAHI's reimbursement with NCSS be unsuccessful, the balance of course fees will be billed to the participant's organisation.

### Teaching Faculty

**Ms Wong Hung Chew** received her MSc in Statistics from the National University of Singapore. She is currently the Senior Biostatistician in the Yong Loo Lin School of Medicine, National University Health System. Prior to joining Yong Loo Lin School of Medicine, she has 6 years of statistical experience in pharmaceutical industries. She has been actively providing guidance to the researchers and conducting training courses to enhance the researchers' understanding about research and statistical methodology.

### Registration

To register, scan the QR code or click on the web link. Registration closes on **8 March 2021, Monday**.



<https://form.gov.sg/601d095c0db7ad00111b630d>

Upon registration, you agree to the [Terms & Conditions](#) of PGAHI.

### Quick Links

[FAQs](#) | [PGAHI Programmes](#) | [Training Calendar and Directory](#)