



**SGH
PGAHI**

POSTGRADUATE
ALLIED HEALTH INSTITUTE

Biostatistics for Research (SPSS) Basic and Intermediate

24 - 27 February 2025

Introduction

Participants will be introduced to biostatistics and conducting quantitative clinical research using SPSS, the commonly used statistical software package in medical research.

Pre-Requisites

- No prior knowledge of statistics is required for participation in this workshop.
- Any prior experiences in the medical research and familiarity with medical or health-related terminology will enhance the learning experience.

Course Objectives

To equip participants with the knowledge and skills to:

- design a database and perform basic data processing, data description and visualization using SPSS; and
- design a medical research study and calculate the sample size
- use SPSS for data analysis involving basic to intermediate statistical techniques

(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.)

Course Outline

- Set up a database in SPSS and importing 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	: 24 - 27 February 2025
Duration	: 14 hours (4 half-days)
Time	: 9.00 am – 12.30 pm
Class size	: 30 participants
Device required	: Laptop/ Desktop (with microphone, speaker and webcam)
Platform	: Online (Meeting details will be provided later)
Fee	: S\$ 680 (SingHealth) S\$ 760 (Regular) (inclusive of prevailing GST rate)

Target Audience

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

Teaching Faculty

Ms. Wong Hung Chew received her MSc in Statistics from the University of Singapore and presently is the senior biostatistician of the Research Support Unit 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 statistical courses to help researchers in their aims of publication and to enhance their understanding of statistical knowledge.

Registration

To register, scan the QR code or click on the web link.
Registration closes on **23 January 2025 (Thursday)**.



<https://form.gov.sg/66b31afdffa17a285cebcdb1>

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

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