

## First Announcement



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Clinical Research Unit, HPUPM presents

*Webinar on*

# MULTIVARIABLE STATISTICS & STATISTICAL TEST ASSUMPTIONS



 July 28<sup>th</sup>, 2022 (Thursday)

 8.15 am – 5.00 pm



**Registration  
Fees**

**RM50**

FOR UPM STAFF / STUDENT &  
FOR NON-UPM STUDENT

**RM100**

FOR NON-UPM STAFF



**ASSOC. PROF. DR. KARUTHAN A/L CHINNA**

BSc. (Education), MSc. (Applied Stats), PhD (Management)

**UCSI University**

Method: Bank Transfer (EFT / CDM)  
Beneficiary Name: Hospital Pengajar UPM  
Bank Name: Bank Islam Malaysia Berhad  
Account Number : 14014010156683  
Payment Reference: 'MultiStats2022'

For any inquiries, please contact:

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# Tentative Program

Time	Title	Speaker
<b>MULTIVARIABLE STATISTICS</b>		
0815-0830	Introductory speech	CBH
0830-0900	General Linear Model (GLM)	KC
0900-0930	Generalized Estimating Equation (GEE)	
0930-1000	Mixed model (MM)/Generalized Linear Mixed Model (GLMM)	
1000-1030	Structural Equation Modeling (SEM)	
1030-1100	Rest / Q&A	
1100-1230	Interactive session with working examples from analysis with GLM, GEE, MM, GLMM and SEM	KC
<b>CHECKING STATISTICAL ASSUMPTIONS</b>		
1230-1300	Introduction of statistical test assumption: What it is and why need to be checked?	NAI
1300-1400	Lunch	
<b>How to assess for statistical assumptions? What are the corrective measures if the statistical assumption not fulfilled?</b>		
1400-1445	Parametric Tests: T-test, Pearson Correlation Non-parametric tests: Spearman Correlation, Chi-Square, Wilcoxon Rank sum Test, Mann-Whitney U Test	KC
1445-1530	Multivariable linear and logistic regressions, Poisson regression and Survival analysis statistical test assumptions	
1530-1615	Generalized linear model and Random/Mixed effect model statistical test assumptions	
1615-1700	Q&A	
	Summary	CBH

**KC:** Assoc. Prof. Dr. Karuthan A/L Chinna

**CBH:** Assoc. Prof. Dr. Chew Boon How

**NAI:** Dr. Nur Aazifah Ilham

*Note: The Organiser reserves the right to cancel or change the topic or trainer of the program, if for whatever reasons beyond its control.*



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