

Clinical Research : Research Methodology and Data analysis

Monday 21st – Friday 25th March 2016

Room 317 (3rd floor) Faculty of Medicine Ramathibodi Hospital

Monday 21st

Time	Topic	Lecturer
Research methodology in medical research		
09.00 – 12.00	Research Methodology	Dr. Sakda Arj-ong Vallipakorn
Data management		
13.00 – 16.00	Data management - Designing case record form - Constructing database ▪ Create database using EpiData ▪ Data quality control ▪ Data cleaning & checking ▪ Data validation	Dr. Pawin Numthavaj

Tuesday 22nd

Time	Topic	Lecturer
Basic medical statistics		
09.00 – 12.00	Descriptive statistics Inferential statistics - Estimation - Hypothesis testing	Dr. Pawin Numthavaj
13.00 – 16.00	Hypothesis testing for continuous data - Independent samples - Dependent samples Hypothesis testing for categorical data - Independent samples - Dependent samples	Asst. Prof. Dr. Sasivimol Rattanasiri

*** For practical work STATA V.14 will be used ***

Clinical Research : Practical points of view

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Wednesday 23rd

Time	Topic	Lecturer
Evidence Based Medicine (EBM)		
09.00 – 10.00	Introduction to EBM	Assoc. Prof. Dr. Atiporn Ingsathit
10.15 – 11.15	Diagnostic study	Dr. Sakda Arj-ong Vallipakorn
11.15 – 12.15	Risk study	Assoc. Prof. Dr. Atiporn Ingsathit
13.00 – 14.00	Treatment study	Dr. Pawin Numthavaj
14.00 – 15.00	Prognostic study	Assoc. Prof. Dr. Atiporn Ingsathit
15.00 – 16.00	Clinical practice guideline	Assoc. Prof. Dr. Atiporn Ingsathit

Thursday 24th

Time	Topic	Lecturer
Linear regression analysis		
09.00 – 12.00	Model selection Interpretation Assumption checking	Asst. Prof. Dr. Sasivimol Rattanasiri
Logistic regression & Clinical prediction score		
13.00 – 16.00	Developing phase - Model selection - Interpretation - Model's performance - Diagnostic measuring - Score scheme creation - ROC analysis Validation phase	Asst. Prof. Dr. Sasivimol Rattanasiri

Friday 25th

Time	Topic	Lecturer
Survival analysis		
09.00 – 12.00	Competing risk model	Assoc. Prof. Dr. Ammarin Thakkinstian
13.00 – 16.00	Multistate model	Assoc. Prof. Dr. Ammarin Thakkinstian

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