

Clinical Research : Research Methodology and Data analysis

Monday 14th – Friday 18th December 2015

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

Monday 14th

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 <ul style="list-style-type: none">- Designing case record form- Constructing database<ul style="list-style-type: none">▪ Create database using EpiData▪ Data quality control▪ Data cleaning & checking▪ Data validation	Dr. Pawin Numthavaj

Tuesday 15th

Time	Topic	Lecturer
Basic medical statistics		
09.00 – 12.00	Descriptive statistics Inferential statistics <ul style="list-style-type: none">- Estimation- Hypothesis testing	Dr. Pawin Numthavaj
13.00 – 16.00	Hypothesis testing for continuous data <ul style="list-style-type: none">- Independent samples- Dependent samples Hypothesis testing for categorical data <ul style="list-style-type: none">- Independent samples- Dependent samples	Asst. Prof. Dr. Sasivimol Rattanasiri

Clinical Research : Practical points of view

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Wednesday 16th

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 17th

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 18th

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

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