Workshop Objectives

This hybrid course in Epidemiology and Biostatistics has an online introductory component spread over a week prior to the start of the course and an intensive 8-day face-to-face component. Completion of quizzes at the end of online phase is mandatory prior to attending the face-to-face course. The course introduces research methods, epidemiological designs, and statistical analyses in relation to health sciences. The course aims to integrate theory and application in epidemiology, clinical medicine, public health, and biostatistics.

♦ The workshop is designed to address each study design using a specific example
♦ The study designs and associated biostatistical methods will be dealt with together such that the knowledge gap in adopting a statistic to a study design will be addressed
♦ Hands-on experience for both designing a study and performing statistical analysis will be provided
♦ THIS YEAR — owing to the COVID crisis, we will start with only the online component for NOW

Who should attend

This workshop is primarily planned for faculty and postgraduate medical/allied health sciences students, PhD students, post-doctorates and others associated with health research. No prior knowledge of research methods or statistics is required.

Organization and delivery

Course faculty will be from St. John’s Medical College & Research Institute. Guest lectures by eminent faculty will be included. All course material will be provided.

Registration

Registration is now open. Filled registration form (www.sjri.res.in) can be submitted on a rolling basis throughout June-August 2020. Please visit www.sjri.res.in

These sessions will be open to you for a month (or) up until 1 week before the start of the face-to-face component of the course, whichever is earlier.

Be Aware — Be Safe

For further enquiry and registration, contact:

Dr Prem K. Mony, MD
Course Coordinator
Head, Division of Epidemiology & Population Health
St. John’s Research Institute

Dr Tinku Thomas, PhD
Course Coordinator
Biostatistics Unit
St. John’s Research Institute

E-mail: epibio@sjri.res.in

St. John’s Research Institute (SJRI)
St. John’s National Academy of Health Sciences, Bangalore – 560034

Theory and Practice of Epidemiology and Biostatistics (EpiBio)

Hybrid course (online & face-to-face)

Dates:
Online course: June-August 2020
On-site course: sometime in 2020

Venue: study-from-home
Tuition fee:
On-line component: course fee = 0;
Face-to-face component: to be decided LATER based on COVID situation

E-mail: epibio@sjri.res.in

Duration:
Online course: June-August 2020
On-site course: sometime in 2020

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E-mail: epibio@sjri.res.in
Overview of the course: Dr Prem K Mony

Module 1
Health Research Methods: Dr Prem K Mony

Module 2
Introduction to Biostatistics Part I: Dr Tinku Thomas
Introduction to Biostatistics Part II: Dr Tinku Thomas

Module 3
Design of Research Protocol: Dr Prem K Mony

Module 4
Review of Literature: Dr Prem K Mony

Module 5
Questionnaire Design: Dr Tinku Thomas

Module 6
Introduction to Data Management: Mrs Sumithra Selvam
Introduction to SPSS: Mrs Sumithra Selvam

Online Course (June—August 2020)

Online Course structure
The online course has 6 modules. Each module has:

1. A Video
2. A Set of slides
3. Module assessment (quizzes)
4. Doubts and queries section
5. Feedback form

- You are expected to watch each video and download the slides to revise the concepts before proceeding to the module assessment
- The module assessment is by Multiple Choice Questions (MCQs). You will be marked on your answers. You can attempt these quizzes multiple times and you need to score 80% in each module
- You can send us your doubts/clarifications for a given module in the ‘doubts and queries’ section. These will be addressed in the face-to-face/chat session
- Lastly, you are encouraged to fill the feedback form to help us improve the course for future students
### On-site course: based on COVID situation

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday 0</th>
<th>Tuesday 0</th>
<th>Wednesday 0</th>
<th>Thursday 0</th>
<th>Friday 0</th>
<th>Saturday 0</th>
<th>Monday 0</th>
<th>Tuesday 0</th>
<th>Wednesday 0</th>
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<tbody>
<tr>
<td><strong>Theme</strong></td>
<td>Miscellaneous</td>
<td>Presentations</td>
<td>Miscellaneous</td>
<td>Descriptive/Cross-sectional study</td>
<td>Experimental Study</td>
<td>Case-control/Cohort</td>
<td>Miscellaneous</td>
<td>Presentations</td>
<td>Miscellaneous</td>
</tr>
<tr>
<td><strong>Morning</strong></td>
<td>Review &amp; feedback</td>
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<tr>
<td><strong>9:00-9:30</strong></td>
<td>Registration &amp; Inauguration</td>
<td>Overview</td>
<td>Descriptive Study</td>
<td>Sample Size</td>
<td>Experimental Study</td>
<td>Cohort Study</td>
<td>Introduction to Epi—I</td>
<td>Introduction to Biostatistics - II</td>
<td>Quality Control in Data Collection</td>
</tr>
<tr>
<td><strong>10:45-11:00</strong></td>
<td>Tea</td>
<td>Tea</td>
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<td>Tea</td>
<td>Tea</td>
<td>Introduction to Epi—I</td>
<td>Introduction to Biostatistics - II</td>
<td>Quality Control in Data Collection</td>
</tr>
<tr>
<td><strong>Pre-lunch</strong></td>
<td>Intro to Biostatistics - II</td>
<td>Intro to Biostatistics - II</td>
<td>Study Formulation</td>
<td>Sampling Technique</td>
<td>Epidemiology Exercises</td>
<td>Randomization &amp; Masking</td>
<td>Customer Analysis</td>
<td>Non-parametric trial designs</td>
<td>Group 4 presentation</td>
</tr>
<tr>
<td><strong>12:45-1:45</strong></td>
<td>LUNCH</td>
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<td>LUNCH</td>
<td>Scientific Reporting</td>
<td>Qualitative Reporting</td>
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<tr>
<td><strong>Post-lunch</strong></td>
<td>Intro to Epi - II</td>
<td>Epidemiology Exercises</td>
<td>Chi-square &amp; Correlation</td>
<td>Randomization Exercises</td>
<td>Epidemiology Exercises</td>
<td>Sample size</td>
<td>Sample size</td>
<td>Test Accuracy Studies</td>
<td>Valedictory</td>
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<tr>
<td><strong>3:00-3:15</strong></td>
<td>Tea</td>
<td>Tea</td>
<td>Tea</td>
<td>Tea</td>
<td>Tea</td>
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<td>Tea</td>
<td>Systematic Review/Grading Evidence</td>
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<tr>
<td><strong>Post-tea</strong></td>
<td>QR code quiz</td>
<td>Testing of Significance</td>
<td>Regulatory &amp; Ethical Issues; Budgeting</td>
<td>Comparison of Means</td>
<td>Group-work planning</td>
<td>Non-parametric statistics</td>
<td>Systematic Review/Grading Evidence</td>
<td>Valedictory</td>
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<tr>
<td><strong>Evening</strong></td>
<td>Practicals</td>
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Additional 1-day Demography course will continue after EpiBio. Details on SJRI website—www.sjri.res.in
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>9:00-9:30</td>
<td>Registration</td>
</tr>
<tr>
<td>Morning</td>
<td>Intro to Demography</td>
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<tr>
<td></td>
<td>Distribution/composition of populations</td>
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<tr>
<td>10:45-1:00</td>
<td>Tea</td>
</tr>
<tr>
<td>Pre-lunch</td>
<td>Demographic processes &amp; measurements</td>
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<tr>
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<td>Demography exercises</td>
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<tr>
<td>12:45-1:45</td>
<td>LUNCH</td>
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<tr>
<td>Post-lunch</td>
<td>Cause of death – Verbal autopsy</td>
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<td>Death certification &amp; ICD-10 coding</td>
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<tr>
<td>3:00-3:15</td>
<td>Tea</td>
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<tr>
<td>Post-tea</td>
<td>Comparison of populations</td>
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<td></td>
<td>Family planning</td>
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</table>