

**Research Methods & Statistics: Basics & Beyond**  
**Department of Pediatrics**  
**MAMC and associated LN Hospital**

**Venue: Pediatric seminar room, MAMC**

**Dates: 8-10.2.23**

**DAY 1 PROGRAMME (8.2.23)**

<b>Session</b>	<b>Timing</b>	<b>Faculty</b>	<b>Presentation type</b>
<b>Registration</b>		<b>8:30-9 AM</b>	
<b>How to formulate a Research question, Hypothesis &amp; Objective</b>	<b>9:00 AM-10.15 AM</b>	<b>Dr. Mukta Mantan</b>	<b>Short PPT f/b Group work (25 min + 50 min)</b>
<b>How to choose an appropriate Study design</b>	<b>10.15 AM-11:00 AM</b>	<b>Dr. S.B.Mathur</b>	<b>Short PPT f/b Group work (15 min + 30 min)</b>
<b>Inauguration</b>		<b>11:00 AM-11:15 AM</b>	
<b>TEA</b>		<b>11:15 AM-11:30 AM</b>	
<b>Regulation of guidelines specific to clinical research: good clinical practice and ICMR guidelines for biomedical research on human subjects</b>	<b>11:30 AM-12:00 Noon</b>	<b>Dr. Ravi Kaushik</b>	<b>Lecture</b>
<b>Diagnostic study: Basics and beyond</b> <b>How to interpret a 2X2 table.</b>	<b>12:00 Noon -12:45 PM</b>	<b>Dr. Aashima Dabas</b>	<b>Lecture with some examples</b>
<b>Needle in a haystack:</b> <b>Searching medical literature</b>	<b>12:45 PM-1:30 PM</b>	<b>Dr. D. Mishra</b>	<b>Lecture with group exercise</b>
<b>Lunch</b>		<b>1:30 PM-2:00 PM</b>	
<b>Reference sequencing software</b> <b>(Hands-on exercise)</b>	<b>2:00 PM-4:00 PM</b>	<b>Dr. Romit Saxena</b>	<b>Hands-on group work and interactive exercises</b>

**Research Methods & Statistics: Basics & Beyond**  
**Department of Pediatrics**  
**MAMC and associated LN Hospital**

**Venue: Pediatric seminar room, MAMC**

**DAY 2 PROGRAMME (9.2.23)**

<b>Session</b>	<b>Timing</b>	<b>Faculty</b>	<b>Presentation type</b>
<b>Sampling techniques and sample size calculation</b>	<b>9:00 AM-10:00 AM</b>	<b>Dr. Khan Amir Maroof</b>	<b>Short PPT f/b Group work (15 min + 45 min)</b>
<b>How to choose an appropriate statistical test</b>	<b>10:00 AM-11:00 AM</b>	<b>Dr. Amod Borle</b>	<b>PPT with Group work (20 min + 40 min)</b>
<b>Tea</b>		<b>11:00-11:15 AM</b>	
<b>Agreement analysis, validity, and reliability</b>	<b>11:15 AM-12:00 Noon</b>	<b>Dr. Khan Amir Maroof</b>	<b>Lecture with examples</b>
<b>Observational studies/cross sectional study: Basics and beyond</b>	<b>12:00 Noon-12:45 PM</b>	<b>Dr. Anirban Hom Choudhari</b>	<b>Lecture</b>
<b>Randomised controlled trial: Basics and beyond</b>	<b>12:45 PM-1:30 PM</b>	<b>Dr. Ashish Jain</b>	<b>Lecture</b>
<b>Lunch</b>		<b>Time 1:30 PM-2:00 PM</b>	
<b>Microsoft excel: Basics and beyond</b>	<b>2:00 PM-4:00 PM</b>	<b>Dr. Manu Shetty</b>	<b>Hands-on group work and interactive exercises</b>

**Research Methods & Statistics: Basics & Beyond**

Department of Pediatrics

MAMC and associated LN Hospital

Venue: Pediatric seminar room, MAMC

**DAY 3 PROGRAMME (10.2.23)**

Session	Timing	Faculty	Presentation type
Protocol writing	9:00 AM-10:00 AM	Dr. Nidhi Bhatnagar	Short PPT with Group work (20 min + 40 min)
Meta-analysis: Basics and beyond	10:00 AM-11:00 AM	Dr. Dheeraj Shah	Lecture
Tea		11:00-11:15	
Publication and promotion of research	11:15-12:00 Noon	Dr. Lalit Maini	Lecture
Multiple comparisons and adjusted analysis /regression analysis: Basics and beyond	12: 00 Noon-12:30 PM	Dr. Rakesh Lodha	Lecture
Qualitative and mixed methods study: Basics and beyond	12:30 PM -1:00 PM	Dr. Manoja Das	Lecture
Lunch		1:00 PM -1:30 PM	
Ethics, research, and funding	1:30 PM-2:30 PM	Dr. M.K. Daga /Dr.U.Jhamb/ Dr. M. Juneja / Dr. K. Rajeshwari/ Dr. Seema Kapoor/Dr. M. Mantan / Moderator: Dr. Raghavendra	Panel discussion
Survival analysis: Basics and beyond	2:30 PM-3:30 PM	Dr.Rajeev Malhotra	Lecture
Certificate distribution		3:30-4:00 PM	