Sample 1

Sample 2

Population

Sample 3, ...

Venue: Online via ZOOM

UPM UNIVERSITI PUTRA MALAYSIA BERILMU BERBAKTI
Department of Family Medicine

Register to secure your place!

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

17 PARTNERSHIPS FOR THE GOALS

27-29 September 2022
MMA CPD 20 POINTS

Workshops:
Clinical-epidemiology Research Methodology Series 3 2022

Workshop	Includes practical sessions on study proposal writing and critical appraisals
Registration & Payment (e mail the receipt to Dr Navin Kumar at knavin@upm.edu.my after payment) Fees:RM 50 for UPM participants RM 100 for non-UPM participants before 20th September 2022 at https://paygate.upm.edu.my/action.do?do=&bahasa=bi [oCERM Series 3 2022]	

Day 1. Introduction:
Characteristics of a quality research; Classification of epidemiologic research; Qualitative vs. quantitative research; An Introduction to the Qualitative Research

Theoretical design:
Research idea, Research question; Literature review; Conceptual framework; Three decisions on study designs. An Introduction to the Reference and Citation Managers

Data collection design:
Three designs; Sampling methods; Valid, Precise and Reliable; Possible biases

An Introduction to the Qualitative Research

Day 2 and Day 3 Statistical design and Statistical analysis: descriptive, inferential, multivariable & Comprehensive reporting:
The essential concepts; Aims of Statistical analyses; Four statistical steps; Three statistical measures; Population and sample– estimation theory; Research and Biostatistics; Concepts of sample size estimation; Choice of statistical tests. An Introduction to qualitative analysis.

Dear Friends and Colleagues,

The Department of Family Medicine Universiti Putra Malaysia (UPM) are delighted to invite you to SIGNUP today for this workshop on "**Clinical Epidemiology Research Methodology (CeRM)**". See the time-table and topics on next page. This workshop will explain the essential features in every step of the whole research process, leading to a well-designed clinical research, enhancing confidence and skills in the planning and conduct of a high-quality clinical research till reporting. Additionally, this workshop will explain and address the causes of research waste, and to improve knowledge on critical appraisal of journal articles by clinicians and health-related professionals.

A wholesome understanding of clinical researches is possible and it is required to produce a quality clinical research. High-quality clinical researches are those that are relevant in the researched topics, credible in their methods and measurement, and reporting important and useful statistics and outcome estimates. This knowledge is invariably related to the skills of critical appraisal of clinical evidence in journal articles.

Continuous conduct of low-quality clinical research will lead to an accumulation of misleading evidence that could harm clinical care of patients. Therefore, poorly conducted clinical and biomedical research have the detrimental effects on the society like the scandals in the politics and economic arena. Moreover, "It was very easy to make errors" despite very good intentions of the researchers."

A certificate is available.

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[oCERM Series 3 2022]

WHO IS THIS WORKSHOP FOR?

- Postgraduate students in medicine and health sciences seeking to scale up their knowledge in research methodology or plan to conduct a clinical research for the first time, or seeking to begin well in statistical analysis, and to write effectively.
- Clinicians seeking to understand the whole process of a clinical research, the characteristics of a high-quality research or appraising clinical practice guidelines (CPG), systematic reviews (SR) and journal articles.
- Academic staffs seeking to strengthen their capacity and roles in producing high-quality clinical research, good practice of data handling, compelling and comprehensive reporting.

- Others including health sciences researchers and peer-reviewers are welcome to participate.

WHAT YOU WILL LEARN?

- Knowledge and skills in clinical research methodologies and develop a compelling research proposal in line with the principles of clinical epidemiology.
- Discover the best practices and approaches in planning and conducting high-quality clinical research from getting a research idea till reporting.
- Learn critical appraisals of clinical practice guidelines, systematic reviews and journal articles.
- The fundamental concepts of statistics and statistical analyses.
- Build your confidence in scientific reporting and academic writing.

For questions, please contact or PM:
Dr. Navin Kumar A/L Devaraj 013-3105381, Workshop Coordinator, Department of Family Medicine, UPM–email to: knavin@upm.edu.my

Day	Date/Time	Theoretical & Data Collection Designs	Tentative Speaker
Day 1	**27 September** 0830-0900	**Interactive talk 1: Introduction** - Characteristics of a quality research; Classification of epidemiologic research; Qualitative vs. quantitative research	Speaker: AP Dr. Chew BH
	0900-1000	**Interactive talk 2: Theoretical design** - Research idea, Research question; Literature review; Conceptual framework, Three decisions on study designs	Speaker: AP Dr. Chew BH
	1000-1045	**Hands-on 1:** Research question & theoretical designs with examples from journal articles	Speaker: AP Dr. Cheong AT
	1045-1100	**Break**	
	1100-1200	**Interactive talk 9: Statistical design III: Sample size estimation**	Speaker: Prof. Dr. Sazlina SG
	1200-1250	**Interactive talk 3 + Q & A** An Introduction to the Reference and Citation Managers: ZOTERO, Mandalay, Endnote Basic and others	Speaker: AP Dr. Maliza Mawardi
	1250-1300	**Interactive talk 4: -** Summing up	Speaker: All speakers
	1300-1400	**Lunch**	
Day 1	1400-1500	**Interactive talk 5: Data collection design I** Three designs; Sampling methods, Valid, Precise and Reliable; Possible biases	Speaker: AP Dr. Chew BH
	1500-1530	**Hands-on 2:** Data collection designs with examples from journal articles	Speaker: AP Dr. Chew BH
	1530-1645	**Interactive talk 6 + Q & A:** An Introduction to the Qualitative Research	Speaker: Dr. Irmi Zarina
	1645-1700	**Q & A** Wrapping up Theoretical and data Collection Designs	Speaker/Facilitators All
		Statistical Design	

Day 2	**28 September** 0830-0930	**Interactive talk 7: Statistical design I** - The essential concepts; Aims of Statistical analyses; Four statistical steps; Three statistical measures	Speaker: AP Dr. Chew BH
	0930-1030	**Interactive talk 8: Statistical design II** Population and sample– estimation theory; Research and Biostatistics; Choice of statistical tests	Speaker: AP Dr. Chew BH
	1030-1145	**Break**	
	1145-1230	**Interactive talk 10: Statistical design-** Summing up	Speaker: AP Dr. Chew BH
	1230-1300 1300-1400	**Q & A** **Lunch**	
	1400-1600	**Interactive talk 11 + Q & A** An Introduction to qualitative analysis	Speaker: Dr. Hani Syahida
	1600-1700	**Q & A** Wrapping up	Speaker/Facilitators All
		Statistical analysis & Comprehensive reporting **(Year 3 or Year 4 who are ready)**	
Day 3	**29 September** 0830-0915	**Interactive talk 12: Introduction 1** - The basic concepts of estimation theory, variability and significance testing, hypothesis testing, the logical steps in statistical analysis	Speaker: AP Dr. Chew BH
	0915-1030	**Hands-on 3:** An introduction to SPSS, navigating the software, some of the common functions/tests and interpretation **Hands-on 4:** Graphical creation in SPSS	Speaker: Dr. Aneesa AR AP Dr. Chew BH
	1030-1045	**Break**	
	1045-1130	**Interactive talk 13: Descriptive statistics**	Speaker: Dr. Navin Kumar
	1130-1200	**Interactive talk 14: Inferential statistics**	Speaker: AP Dr. Chew BH
	1200-1245	**Hands-on 5:** Descriptive statistics and inferential statistics with SPSS [or work through with participants in the 4th MMed Fam Med]	Speaker: Dr. Navin Kumar
	1245-1430	**Lunch**	
	1430-1515	**Interactive talk 15: Multivariable regression analysis** - Steps for constructing a multivariable model and checking statistical assumptions - Linear regression, Logistic regression	Speaker: Prof Dr Ching Siew Mooi
	1515-1615	**Hands-on 6:** Multivariable regression analysis with SPSS [or work through with participants in the 4th MMed Fam Med]	Speaker: Prof Dr Ching Siew Mooi
	1615-1645	**Interactive talk 16: Comprehensive reporting**	Speaker: Prof Dr Ching Siew Mooi
	1645-1700	**Concluding remarks and Q & A**	Speaker: All