

Day 2: 16:10 – 16:25

**Introduction to clinical research for undergraduate medical students at
Universitas Indonesia**



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Short CV

Dr Septelia Inawati Wanandi is a Professor in the Department of Biochemistry and Molecular Biology, Faculty of Medicine Universitas Indonesia (FMUI), where she has been since 1988.

She was pursuing her MD at FMUI in 1981-1987, and her Dr.rer.physiol. at the Philipps University of Marburg, Germany in 1991-1994.

From 1998 to 1999, she took the Post-Doctoral Program in the Department of Biochemistry and Molecular Biology, Faculty of Medicine Hokkaido University, Japan.

She serves as the Head of Master's Program in Biomedical Sciences FMUI since 2015. Between 2018 and 2021, she was appointed Head of Indonesian Consortium of Biomedical Sciences. She is a member of Medical Research Ethics Committee, Dharmais National Cancer Hospital Jakarta since 2018, and a member of National Committee of Stem Cell Services since 2021.

From 2017 until now, she serves as the Head of Molecular Biology and Proteomics Core Facility in the Indonesian Medical Education and Research FMUI.

Abstract

Clinical research generally refers to studies involving peoples, human data, or tissue samples either as observational studies or clinical trials. The Faculty of Medicine Universitas Indonesia (FMUI) has continually been applying research as an integral part of learning process in the academic stage (preclinical years); therefore, student research is compulsory in FMUI competence-based curriculum.

Student participation in research is essential to develop skills that enable them to conduct evidence-based medicine as a standard for clinical treatment in recent years. Before entering their clinical years, FMUI undergraduate students are introduced to the essential clinical knowledge and research. They can opt for biomedical, clinical or epidemiological research depending on the ongoing research offered by supervisors from pre-clinical or clinical departments.

Research experiences in preclinical year give them a chance to get some clinical exposure and experience, not only by interacting with patients but also by being a part of a research project.

The FMUI research methodology and academic writing modules held in the 2nd semester are aimed to introduce students the basic research concepts including research methodology, proposal development, and reporting research results which is necessary to implement proper research and meet the expected standards. Then, students should conduct their research project at the end of 4th semester and are expected to accomplish their research by writing and defending their thesis by the end of 5th semester at the latest.

It is noteworthy that students are obliged to manage their time, as conducting research while studying medicine may place enormous demands on the student's time and energy.