Sri MANAKULA VINAYAGAR
Medical College and Hospital
Accredited by NAAC with A+ Grade, Accredited by NABH and NABL
KALITHEERTHALKUPPAM, PUDUCHERRY - 605 107.

Institution's Innovation Council

IIC- SELF DRIVEN ACTIVITY

Ministry of Education's INNOVATION CELL (GOVERNMENT OF INDIA)

Title: ARTIFICIAL INTELIGENCE & AUTOMATION IN ANAESTHESIA

Date: 26.05.2025

Organizing Department: Department of Anesthesiology and Institutional Innovation Council – SMVMCH

Coordinator: Dr.S.Balasubramanian

Time: 2.00 pm to 4.00 pm

Objectives:

1. To introduce the basic concepts of Artificial Intelligence (AI) and automation relevant to the field of anaesthesia.
2. To explore the current and emerging applications of AI in perioperative care, including preoperative assessment, intraoperative management, and postoperative monitoring.
3. To understand the role of machine learning, decision-support systems, and automated drug delivery systems in improving anaesthesia outcomes.
4. To discuss ethical, legal, and practical considerations of incorporating AI in clinical anaesthesia practice.
5. To encourage interactive discussions among postgraduates and faculty on the integration of AI tools in clinical decision-making.

Guest Speaker: Dr.R.Srinivasan, Assistant Professor,

JIPMER, Puducherry

Participant: Faculties & Postgraduates – 40

Programme Overview: The Department of Anaesthesia conducted a guest lecture on "Artificial Intelligence & Automation in Anaesthesia" on **26.05.2025** from 2.00 pm to 4.00 pm. The session was coordinated by Dr. S. Balasubramanian and featured Dr. R. Srinivasan, Assistant Professor, JIPMER, Puducherry, as the guest speaker.

The two-hour session was attended by faculty members and postgraduate students, who actively participated in the discussions. The lecture provided a comprehensive overview of the integration of Artificial Intelligence and automation in anaesthetic practice, covering aspects such as AI-based monitoring systems, automated drug delivery, predictive analytics, and decision-support tools.

Interactive discussions enriched the session, allowing participants to clarify doubts, share clinical experiences, and explore the practical challenges and benefits of adopting AI in anaesthesia. The event successfully created awareness and sparked curiosity among the attendees regarding the future of technology-driven anaesthesia care.

Outcomes:

- Participants gained insight into the potential of AI and automation in enhancing anaesthesia practice.
- Improved awareness of real-time clinical applications and innovations in AI tools for patient monitoring and safety.
- Enhanced understanding of the opportunities and limitations of AI in the anaesthesia workflow.
- Initiated dialogue and critical thinking among postgraduates and faculty about the future of technology-driven anaesthesia care.

Conclusion:

The session underscored the transformative potential of Artificial Intelligence and automation in anaesthesia, highlighting both current applications and future possibilities.


Artificial Intelligence & Automation In Anaesthesia
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