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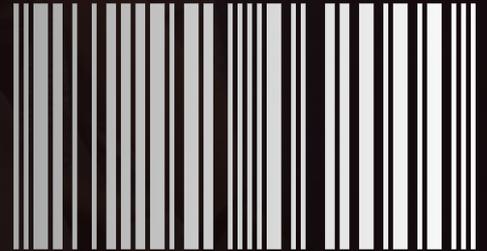
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TOTAL INTRAVENOUS ANAESTHESIA WORKSHOP 2024

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Total Intravenous Anaesthesia, or TIVA is a technique for providing general anesthesia without using traditional volatile agents. It has many advantages, particularly when certain patient conditions or surgical procedures mandate it. The Department of Anaesthesiology and Intensive Care UiTM, in collaboration with Hospital Tanjung Karang, set out to organize its first ever joint workshop with several objectives in mind.

The objectives were to enhance participants' knowledge and skills in order to deepen understanding and proficiency in using TIVA, to equip participants with the ability to practice TIVA, and to increase familiarity with this technique.

There were 24 medical officers and 11 GA nurses working in various anesthetic departments who were all very eager to learn more about the technique. The initial pool of participants was from the organizing departments. However, as interest grew, we were very pleased to receive registrations from as far as Alor Setar.





The workshop was held at Hospital Al-Sultan Abdullah on 12th January 2024. The lectures were conducted in the seminar room adjacent to General OT, with demonstrations in the OT itself. We kickstarted the lecture series with an 'Introduction to TIVA' by Dr. Ivy Sim, which was followed by engaging lectures by Dr. Ahmad Shafie Jameran and Dr. Vimal Varma on the 'Pharmacology of Propofol' and the 'Pharmacology of Remifentanyl' respectively. Participants were intermittently shepherded by the ever-attentive committee, Dr. Haliza Zainol Abidin and Dr. Asmah Azizeh in smaller groups into the OT for live demos. On the receiving end were strategically placed consultants, Dr. Adlin Dasima Abdul Kadir, Dr. Sarah Harnani Mansor, and Dr. Siti Aznida Ab Karim, who expertly demonstrated the conduct of TIVA during the various phases of anesthesia. Participants got to experience the latest that technology has to offer with sleek-looking touchscreen target-controlled infusion pumps and explore the intricacies of depth of anesthesia monitoring.



Lectures on 'Setting up the TCI Pump' continued after breakfast, as those returning from the live sessions reported that they did not smell even a whiff of a volatile agent throughout. Lectures for the morning then concluded with Dr. Afifah Samsudin enlightening the crowd on the science behind the specialized infusion pumps, 'TIVA algorithms'.

The live demonstrations were supplemented with a summation simulation session by Dr. Vimal Varma to tie together applying TIVA in all phases of anesthesia from start to finish. It was also conducive to questions and allowed participants time to handle the equipment for themselves.

With minds churning, everyone headed to fill their stomachs next with a delicious lunch. The afternoon session continued with special lectures by Professor Karis Misiran on 'Pharmacokinetics and Pharmacodynamics for TIVA'. The workshop ended with a short post-workshop quiz with a cool prize.

We had the support of representatives from several companies (Schmidt, Aspen, Medtronic, and Hospimetrix) who kindly provided the medication, disposables, equipment, and refreshments, as well as a dedicated team of medical officers (Dr. Nurul Afifah Mohd Yusoff and Dr. Mohammad Ersyad Kamil bin Mohammad Syafiie) who made the workshop a success.

It was a great start to the year for the department, and we hope that our participants will go forth with new-found confidence and knowledge to apply TIVA in their daily anesthetic practice.

