

ICG GUIDED CHOLECYSTECTOMY WORKSHOP

Pre-Congress Workshop, MyHPB 2022

4, August 2022 | Clinical Auditorium, Faculty of Medicine, UM

By Dr Wilson Tiang Ko Ping and A/Prof Dr Koh Peng Soon

‘The glory of medicine is that it is constantly moving forward, that there is always more to learn’- William J. Mayo

The Hepato-Pancreato-Biliary (HPB) Unit of Department of Surgery, University Malaya Medical Centre (UMMC), has successfully conducted the first physical hands-on workshop post pandemic recently as part of the pre congress workshop for the MyHPB 2022. The workshop was titled as ‘ICG Guided Laparoscopic Cholecystectomy’ held on 4th August 2022 at the Clinical Auditorium and Main Operation Theatre of UMMC.

The event was graced by the Dean of University Malaya, Prof Dr. April Camilla Roslani; Hospital Director of UMMC, Prof Dr. Nazirah Binti Hasnan; President of MYHPBS, A/Prof Dr. Yoong Boon Koon; Chairman of MYHPB Congress 2022, Prof Madya Dr. Zamri Zuhdi; Chairman of Pre-Congress Workshop, A/Prof Dr Koh Peng



Soon. We were also honoured to have esteemed facilitators from the HPB fraternity in Dr Leow Voon Meng; Mr Vasu Pillai Letchumanan, Dr Koong Jun Kit, and Dr Kamarajan Ramayah. The event would not have been successful without the support of our sponsors in UMMI Surgical, Karl Storz and Medtronic and we would like to express our appreciation for partnership and collaboration in this workshop.



A total of 7 participants participated for the hands-on category, which included established surgeons from private and government sectors as well as the final year Master of Surgery candidates. A total of 30 participants attended the live demonstration in Clinical Auditorium, where live feed of hands-on from OT being projected.



The workshop started with a series of lectures; 'Basic concept of ICG' by Dr Kamarajan, continued 'ICG guided Laparoscopic Cholecystectomy- How do I do it, by Dr Koong Jun Kit; then 'Safe Cholecystectomy in the era of ICG' by A/ Prof Koh Peng Soon; and concluded with 'Bile duct injury and prevention' by Dr Leow Voon Meng.



Hands-on participants then proceeded to go OT after the lectures and were guided by our facilitators. Live demonstrations were initiated by A/Prof Yoong with regards to the usage of ICG and anatomy identification. Thereafter, our participants were guided side by side by experienced surgeons.



Indocyanine green (ICG) is a fluorescent dye that has been widely used for fluorescence imaging during hepatobiliary surgery. ICG is injected intravenously, selectively taken up by the liver, and then secreted into the bile. The catabolism and fluorescence properties of ICG permit a wide range of visualization methods in hepatobiliary surgery. With the aid from anaesthesia colleagues, each patient will be given IV ICG 2.5mg, approximately 45 minutes prior incision. Bile ducts will be coloured green once the system is switched on. The average operation time taken were about 45 minutes, and each participant found it easier to operate with the guide of ICG.



In conclusion, the aim of the workshop is to expose the future generation of surgeons to the latest technology in terms of improving patient safety and reducing risk of potential complications especially bile duct injury in laparoscopic cholecystectomy. At the end, the workshop was a success and participants enjoyed the sessions. The overall feedbacks were positive and we hope to see more participants in future workshops. See you all next year!

