MASTERCLASS IN PRECISION MEDICINE

ARTIFICIAL INTELLIGENCE AND BIG DATA IN DIGESTIVE HEALTHCARE

15TH JANUARY 2024

Course Directors
Guilherme Macedo, Miguel Mascarenhas Saraiva, João Ferreira

08:45 Opening remarks : Guilherme Macedo, Renato Natal, João Ferreira

9H00 Session 1 : Basic concepts (Miguel Mascarenhas)

*Artificial Intelligence and Gastroenterology: A brave new world
*AI, Big Data and Blockchain: challenges and promises.

Discussion: (Renato Natal, João Fonseca, João Ferreira, Guilherme Macedo)

9h45 Session 2: Minimally invasive GI diagnostics (Mod: José Cotter, Marília Cravo)
1. AI and Capsule endoscopy: unravelling the future. (João Afonso)
2. Colon Capsule Endoscopy; AI: Perfect Match for Pan-Endoscopy. (Bruno Rosa)
3. Robotic capsule endoscopy: Concept and AI Application. (Helder Cardoso)

10h45-Coffee break

11h15 Session 3: Artificial Intelligence in Live Endoscopy (Mod: Susana Lopes, Filipe Vilas Boas, Pedro Pereira)
4. Upper endoscopy (Rui Gaspar)
5. Colonoscopy (Rui Morais)
6. Device-assisted enteroscopy: case application (Patricia Andrade)
7. Pancreatobiliary application: Cholangioscopy (Mariano Gonzalez)
Endoscopic Ultrasound (Tiago Ribeiro)

13H00 Lunch

14h15 Session 5: AI beyond Endoscopy (Mod: Miguel M Saraiva, Teresa Freitas)
8. High-Resolution Anoscopy (Miguel Mascarenhas)
9. Inflammatory Bowel Disease (Susana Lopes)
10. AI and motility: primetime for Neurogastroenterology (Cecilio Santander)
11. Hepatology (Miguel Mascarenhas)

16h00 Tour on the Precision Unit (Pedro Pereira, Mariano Gonzalez, Miguel Mascarenhas)

16h30 Adjourn