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Modern Forensic Pathology: Advances in Postmortem Investigation and Medicolegal Death Analysis

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Forensic pathology plays a vital role in determining the cause and manner of death while providing scientifically reliable evidence for criminal investigations and public health surveillance. This presentation reviews recent advances in postmortem imaging, minimally invasive autopsy techniques, forensic toxicology, and molecular pathology. High-resolution CT, MRI, and digital autopsy technologies are enhancing diagnostic accuracy and preserving valuable forensic evidence.

The session highlights innovations in trauma assessment, sudden unexpected death investigation, and postmortem biomarker analysis that improve medico-legal decision-making. Emerging applications of artificial intelligence and digital pathology are supporting forensic experts in interpreting complex cases while improving the efficiency of forensic laboratories. Future research focuses on integrating precision medicine and advanced imaging into routine forensic practice.

Biography

Richard Shepherd is a Consultant Forensic Pathologist in the United Kingdom and an Honorary Professor at University College London. He has investigated thousands of medico-legal cases and is internationally recognized for his contributions to forensic pathology, death investigation, and forensic education.