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Haytham Kaafarani is an associate professor of surgery at Harvard Medical School, and a trauma and critical care surgeon at the Massachusetts General Hospital. He currently serves as director general of the Center for Outcomes & Patient Safety in Surgery, director of research at the Trauma, Emergency Surgery & Surgical Critical Care, director of the Complex Wound Center and director of Surgical Quality & Safety. He is a leading surgeon-scientist recognized nationally and internationally, with more than 250 published textbook chapters and scientific manuscripts focused on improving surgical outcomes, patient safety and quality benchmarking of surgical care. He is the creator of the ESS (Emergency Surgery Score), POTTER (Predictive OpTimal Trees in Emergency Surgery Risk), which is an Artificial Intelligence emergency surgery risk calculator, as well as the intraoperative adverse events Severity Classification Scale. He currently serves as chair of the Scientific Studies Committee of the Surgical Infection Society and chair of the International Fellowship Committee of the American College of Surgeons. He leads several multi-institutional and international studies such as the iPOP study (integrated Personalized Omics Profiling), the EAST ESS validation study, and the COVIDSURG study. He is also an active conflict-area surgeon with Médecins Sans Frontières (Doctors without Borders) and has served on multiple missions in Central Africa.