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Editorial

The art of healing in the era of emerging technologies: Back to the fundamentals of clinical medicine

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The incorporation of innovative technology at the bedside is expediting the evaluation and diagnosis of patients during the clinical practice of medicine, surgery, and sub-specialties such as trauma surgery, emergency medicine, and critical care medicine. Furthermore, the technology is enhancing the knowledge of the physiologic burden of injuries or disease, thus contributing to the timely management of thousands of patients in our institutions.

As clinicians, we should never forget the fundamentals of patient evaluation. Beginning with the history and physical examination, in which the application of fundamental semiology principles assists us with the identification of various pathological manifestations in the form of signs and symptoms. These principles will always be the base to enhance the diagnosis of diseases and conditions, consequently expediting the evaluation and management of patients with acute medical conditions, polytrauma, and severe injuries. Simultaneously, advances in digital healthcare technologies, such as artificial intelligence, VR/AR, 3D-printing, robotics, or nanotechnology are rapidly shaping up the future of healthcare. These changes require healthcare providers to quickly adapt, gain new skills, and become proficient in technology. Furthermore, it requires clinicians to prioritize the provision of adequate education, training, and information about these types of advances. For example, informing staff, trainees, patients, and families regarding the inevitable inclusion of emerging robotics assistant technology in clinical practice. Preparing the staff that soon, rather than later, the rapid development and adaptation of artificial intelligence-enhanced clinical management and treatment systems algorithms will be integrated into our institution's clinical information systems. With the advent of technology, we must continue to emphasize the fundamentals of medicine. This is particularly important for practitioners in resource limited countries and those responding to pandemics, endemics, emergencies, and disasters.

Part of the mission of the Journal of Emergency Medicine, Trauma and Acute Care – JEMTAC, and academic institutions is to keep providing continuous medical and allied health education on performance improvement, and professional and social responsibility on the practice of modern medicine. In 2023, the journal continues to publish topics in the fundamentals of clinical medicine. This is the case of the article by Neal et al., titled “A high index of clinical suspicion for a spontaneous uterine rupture in the early second trimester,” where the authors emphasized that a high index of clinical suspicion could expedite the diagnosis and management and decrease the maternal and fetal morbidity and mortality associated with the clinical condition described.

Furthermore, the scope of JEMTAC journal reaches beyond time zone boundaries, as original articles have been published by scholars from different continents. Articles revisiting the

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fundamentals of clinical medicine will provide continuous medical education information to our colleagues in limited-resource countries and to the clinicians who practice in high-income countries, where the adjuvant use of technology and point-of-care testing expedites and facilitates a more focused approach to complex clinical conditions and injuries.

Our Journal will continue to cover major academic events such as the next iteration of Qatar Health Congress 2023 and the 3rd Public Health Conference that will be hosted in Doha, Qatar, this fall, where delegates from around the globe will bring a wealth of knowledge in public health, acute medicine, disaster, trauma surgery and critical care.