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A New Model for Postgraduate and Continuing Education in Disaster and Terror Medicine

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Introduction: Postgraduate education is important in preparing and enhancing health professionals for the practice of disaster and terror medicine. The World Association for Disaster and Emergency Medicine (WADEM) has formulated a standardized international perspective for education and training in disaster medicine and health. Notwithstanding, there continues to be a reported gap in competency-based training in disaster and terror medicine internationally, particularly across Asia Pacific, which is a known vulnerable region. We report on a new Graduate Diploma in Disaster and Terror Medicine, to be expanded to Master level in 2024. The course is delivered mainly online to a multidisciplinary international audience. This paper summarizes the development of the course and outlines the key influences that have contributed to the design of the course.

Method: A survey of the critical care workforce conducted by the Department of Critical Care at the University of Melbourne in early 2020 identified the need to develop education in disaster and terror medicine. A market and competitor analysis identified there was a gap in clinician focused courses offered in Australia and internationally. Based upon these results, a new course was developed to meet these needs.

Results: Based on the results of the survey and feedback from expert stakeholders, the new postgraduate courses in disaster and terror medicine were developed. They offer both core and elective subjects, utilizing a modular approach with supervised simulation and practical training. The courses incorporate problem-based learning, the principles and practices of online education and advances in simulation-based learning, providing both a public health and clinical lens.

Conclusion: The nested suite of postgraduate disaster and terror medicine courses at the University of Melbourne is at the forefront of learning within this field and meets the contemporary needs of health professionals who practice disaster and terror medicine

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Evaluating the Level of Disaster Preparedness of Tunisian University Hospitals Using the Hospital Safety Index: A Nationwide Cross-sectional Study

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Introduction: Midway through the 'Sendai Framework for Disaster Risk Reduction 2015-2030', many nations are spending time, money and effort to enhance their level of preparedness when facing disasters, on the other hand communities, countries and even continents are being left behind. This study was conducted aiming at evaluating the level of disaster preparedness and response of Tunisian University Hospitals.

Method: This is a cross-sectional nationwide study conducted in Tunisia, from November 2020 to April 2021. Including nine Tunisian University Hospitals and using the Hospital Safety Index. The data were analyzed using the 'Module and safety index calculator'.

Results: This study showed that seven out of the nine University Hospitals were assigned the 'B' category of safety with overall safety indexes that ranged between 0.37 and 0.62. Also, four out of nine University Hospitals had safety scores less than 0.20 regarding their emergency and disaster management.

Conclusion: This is the first study to evaluate disaster preparedness and response of university hospitals in Tunisia and in north Africa. It showed that the lack of knowledge, resources and willingness, are the most important issues that need to be addressed in order to enhance the preparedness of Tunisian hospitals.

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Toxic Fumes Exposure–More than Just an Airway Concern – RETRACTED

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Introduction: Exposure to toxic fumes from an industrial chemical fire may not only lead to airway burns and inhalational injury but also toxic exposure via the transdermal route.

Method: A 45-year-old gentleman presented with dyspnea two hours after a ten-minute exposure to toxic fumes while fighting an industrial chemical fire without personal protective equipment. He reported voice hoarseness and chest tightness. Nasoendoscopy demonstrated paranasal sinus soot and significant upper airway edema. Awake fiber-optic intubation was performed for prophylactic airway protection in the Burns ICU but bronchoscopy did not reveal any inhalational burns.

However, the patient developed worsening lactic acidosis (serum lactate 2.8mmol/L to 8.1mmol/L with pH 7.28) within 12 hours post-exposure. Carboxyhemoglobin was 0.9%. Toxicology was consulted for suspicions of transdermal HAZMAT contamination, in particular cyanide given the profound lactic acidosis. The patient was given two doses of hydroxocobalamin and brought to the Decontamination Unit for de-gowning and thorough washdown. The chemical scan meter showed high levels (352IU) of an unknown chemical on his skin pre-decontamination, which could not be detected post-decontamination. Lactate improved to 5.0mmol/L within two hours post-decontaminawhile acidosis resolved at eight hours post-

