

## Fostering innovative resilience of clinical services to major disasters

### Overview

The COVID-19 pandemic stretched for the first time every modern healthcare system globally. Hospitals were forced to cancel elective operations, develop new work approaches, and redeploy staff to treat infected patients, limit infection rates whilst maintaining most urgent operations. Healthcare services are now in challenging but also potentially ground-breaking position to re-think the way they operate. This webinar brings together international healthcare professionals and researchers to discuss, debate and provide facts to explain the reasons for which clinical service are vulnerable and identify areas to enhance resilience.

This unique webinar is one of series of free events sponsored by the Royal Academy of Engineering to rethink healthcare resilience from a global perspective. The webinar is designed to represent the complexity of healthcare and will provide information for professionals, major emergency planners and policy makers. No matter what your background is, you'll have the opportunity to ask questions to our international speakers and gain knowledge from their experience to resolve your own problem.

**Date:** 15 February 2022 from 18:00 to 20:30 GMT.

### For further information:

[Nebil.Achour@aru.ac.uk](mailto:Nebil.Achour@aru.ac.uk)

Tel. +44(0)1223 695262

**Booking information:** To book your place, please use the URL or scan the QR code.  
<https://forms.office.com/r/4SxH8Fef5N>

**Places are limited.**

### Agenda

**18:00 – 18:05** Welcome by Dr Nebil Achour

**18:05 – 18:15** “Global Resilience in Healthcare... The challenges” by Dr Ahmed Elrefaey.

**18:15 – 18:25** “Response to COVID-19 in Italy: challenges, opportunities and lessons learnt” by Dr Alessandro Lamberti.

**18:25 – 18:35** “The National Emergency Medical Service Role During the COVID-19 Pandemic in Sierra Leone” by Dr Marta Caviglia.

**18:35- 18:45** “Disaster Medicine and Healthcare Resilience in Turkey” by Dr Huseyin Kocak.

**18:55 – 19:10** “Question and answers” facilitated by Dr Nebil Achour and Hamdi Lamine.

**19:10 – 19:20** “Examining Healthcare Workers' Willingness to Respond in Public Health Emergencies & Disasters: Current Research Considerations” by Professor Daniel Barnett.

**19:20 – 19:30** “Challenges and Opportunities of Nurse Redeployment during COVID-19 Pandemic” by Helen Ballantyne.

**19:30 – 19:40** “Responding and adapting to the COVID-19 pandemic: An Allied Health perspective” by Pippa Hales.

**19:40 – 19:55** “Question and answers” facilitated by Dr Nebil Achour and Hamdi Lamine.

**19:55 – 20:30** “Discussion Panel” and closing notes facilitated by Dr Nebil Achour and Hamdi Lamine.



# Biographies

## Dr Ahmed Elrefaey



FRCA, DESA, EDRA, MSc, MBBCh, Consultant Anaesthetist at Oxford University Hospitals NHS Foundation Trust, UK. Substantial international experience in Egypt, Oman and UK and has been invited to deliver lectures

nationally and internationally. Clinical Educator and Supervisor at the NHS, the Royal College of Anaesthetists and Lecturer of healthcare management at the University of East Anglia. A founder of a series of training programs in anesthesia and intensive care medicine. He is a quality improvement enthusiast and has been heavily involved in fighting COVID-19 pandemic in major hospitals in Cambridge and Oxford.

## Helen Ballantyne



Transplant Coordinator at Addenbrookes Hospital, Cambridge University Hospitals NHS Foundation Trust, UK. Helen is a Registered Veterinary Nurse (2005), holds a Post Graduate Diploma in Adult Nursing (2013) and a MSc in Healthcare Management (2021). She has experience in cardiothoracic ITU

has a deep interest in the infrastructure and planning required to manage and maintain the nursing profession within the NHS. During the recent COVID pandemic she was redeployed into ITU and realised there was a need to capture the experience for future learning which she successfully turned into, and completed as, a research project.

## Professor Amir Khorram-Manesh



University Lecturer in Disaster Medicine Surgery and mass casualty management and trauma at University of Gothenburg, Sweden, and Visiting Professor at the National Institute of Emergency Medicine of Thailand, and Mahidol University, Bangkok. Active researcher specifically Disaster and

Emergency Medicine, Prehospital Medical Care, Mass Gathering, and Trauma, and Educational Initiatives and Emergency Simulation Training. He is involved in several international projects investigating topics such as flexible surge capacity; Civilian-military collaboration, total defense healthcare development, Development of emergency medicine (triage), Hospital safety index and hospital preparedness, and Public health emergencies, including pandemics.

## Dr Alessandro Lamberti



Physician, Emergency Medicine Consultant, Leader of resident doctors training, and Hospital Major Incident Planning at the Sant Andrea Hospital in Vercelli Italy. PhD researcher at University of Eastern Piedmont (Italy),

University of Brussel and CRIMEDIM (Italy). Over 15- year clinical experience in emergency and internal medicine, and a global health researcher and advocate for ensuring health delivery to vulnerable populations. Research work focuses on integrating primary care into the health emergency and disaster risk management, and on enhancing the preparedness for disasters of whole communities especially the most marginalized parts. Interest is in resilience of health system, as a critical factor for achievement of health, and development goals by building people-centred health systems.

## Professor Daniel Barnett



MD, MPH, Associate Professor in the Department of Environmental Health and Engineering at the Johns Hopkins Bloomberg School of Public Health (JHSPH), USA, where he has joint appointments in the

Department of Health Policy and Management, and the Department of Health, Behavior and Society; and is on the Core faculty of the Office of Public Health Practice & Training. His research interests include evidence-based approaches to organizational enhancement of public health emergency preparedness and healthcare workforce resilience in the context of public health emergencies and disasters. He received his MD degree from The Ohio State University College of Medicine and Public Health; his MPH degree was earned at The Johns Hopkins Bloomberg School of Public Health and he is a graduate of the Johns Hopkins General Preventive Medicine Residency Program.

# Biographies

## Dr Marta Caviglia



MD, Anaesthesiologist, and Intensive Care Consultant. Graduated from Università del Piemonte Orientale in Novara, Italy. PhD researcher in CRIMEDIM and has been involved in the EU funded Terrorist

attacks on hospitals: Risk and Emergency Assessment, Tools and Systems (THREATS), and Integrated strategy for CBRN threat identification and emergency response (TIER) projects. Substantial experience in Disaster Medicine educational activities. Project Coordinator of the international Training Disaster Medicine Trainers (TdmT) course and as the training manager for the National Emergency Medical Service in Sierra Leone. Her research activity encompasses projects in low resource settings and war zones, such as Uganda, Iraq, and Sierra Leone. Marta is involved in the Novel Integrated Toolkit for Enhanced Pre-Hospital Life Support and Triage in Challenging and Large Emergencies (NIGHTINGALE) EU-funded project.

## Dr Hüseyin Kocak



President of Emergency Aid and Disaster Managers Association, Advisor to the Director of Turkish Red Crescent General Director, and Academic in the Department of Emergency Aid and Disaster Management at the Faculty

of Health Sciences of Çanakkale Onsekiz Mart University (ÇOMÜ). 10-year field experience at the Ministry of Health Emergency Health Services, AFAD Disaster and Emergency Management Center and Turkish Red Crescent Disaster Operation Center. Completed his Bachelor Degree at ÇOMÜ School of Health, Emergency Aid and Disaster Management in 2010, MSc in Disaster Medicine from Hacettepe University in 2014; and PhD in Disaster Medicine in Bezmialem Vakıf University in 2019, and currently continuing his second doctorate in Public Administration at ÇOMÜ Social Sciences Institute. His research areas are disaster medicine, mass gathering medicine, disaster management, resilience, emergency planning and exercises, prehospital emergency health services, medical rescue.

## Pippa Hales



Chief Allied Health Professional (AHP) at Royal Papworth Hospital NHS Foundation Trust, UK. Member of the Council for Allied Health Professions Research (CAHPR) and formerly committee member of the UK Swallow Research Group (UKSRG) for 12 years, supporting

the sharing of international knowledge and the multi-professional development of researchers in the field of dysphagia and learning a lot herself along the way. During the ongoing Covid-19 pandemic Pippa has responded, as part of the clinical senior leadership team, to transform deployment of the AHP workforce to respond to patient need. She was a member of the frontline Covid-19 response team on critical care and the vaccination clinics. She led the development of several journal papers and shared their collaborative nursing and AHP response to the pandemic.

## Dr Nebil Achour (Organiser)



Associate Professor in Disaster Mitigation with 20-year experience in healthcare resilience to major hazards. Background is in Earthquake Disaster Mitigation Engineering. Awarded 3 international prizes and published 50+ scientific

articles covering issues related to the infrastructure, management and planning of healthcare resilience. WHO Advisor, member of the Global Expert Consultation on Revision of the Hospital Safety Index, member of post-disaster international investigation teams to Algeria, Iran, Japan and Turkey, and member of 3 international journal editorial boards.

## Hamdi Lamine (Co-Organiser)



Research Associate at CRIMEDIM, Novara, Italy, and a PhD researcher at the Faculty of Medicine of Sousse, Tunisia. Hamdi is a Nurse Specialist in Resuscitation and Emergency. He holds MSc in Health Sciences (2017) from the Advanced

School of Health Science and Techniques of Sousse. Hamdi has experience in hospital preparedness to disasters and is involved in several international projects such as NIGHTINGALE and No-Fear and is investigating the level of preparedness of Tunisian hospitals to disasters using the WHO Hospital Safety Index