

Marie-Carmelle Elie, MD, RDMS FACEP

Associate Professor
Department of Emergency Medicine
Critical Care, Hospice and Palliative Medicine

Dr. Marie-Carmelle Elie obtained her MD from the State University of New York in Brooklyn with distinction in research. Since then, she has continued to distinguish herself as a scholar and clinician investigator. Following emergency medicine residency at Mount Sinai Medical Center in NY, she completed the prestigious critical care/ trauma fellowship at the R. Adam Cowley Shock Trauma Center at the University of Maryland, and obtained her certification in Hospice -Palliative and End-of-Life Care for Emergency Medicine. In addition, she is a registered diagnostic medical sonographer (RDMS).

Dr. Elie's research focuses on the biomarker detection and the prevention of complications often suffered by critical care patients. She is an expert at designing systems to prevent errors in the critical care setting, and has a track record of successful interdepartmental collaborations that result in streamlining acute care in the ED. As co-chair of the hospital sepsis committee, she is spearheading the hospital-wide sepsis protocols, has instituted the emergency department sepsis alert, and is engaged in plans to establish a community-wide program that will engage neighboring facilities and the pre-hospital system.

Dr. Elie is involved in numerous high profile clinical trials. She is a member of the US Critical Illness and Injury Trials Group (USCIITG). She is currently the site principal investigator (PI) for the LIPS-A study, an NIH funded trial that investigates the use of aspirin in preventing acute lung injury, and the PI for Biomarkers of Pediatric Sepsis trial, funded by a competitive University of Florida Faculty Research Development Grant. She has served as co-investigator for a number of critical care trials including PROWESS-II, the study of drotrecogin alfa in septic shock, and PROMISES (Progenitor Endothelial Cells as a Marker of Endothelial injury and Repair), which examines angiogenic markers of hypoxia and endothelial injury and the mechanism of repair in sepsis. Dr. Elie has also lead research efforts in the area of nosocomial patterns of transmission of methicillin resistant *Staphylococcus aureus* (MRSA), specifically in the health care setting. Her impressive research portfolio has been supported by continuous grant funding since 2008.

In addition to her research accomplishments, Dr. Elie is a masterful clinician educator. Her bedside teaching and formal didactics consistently win acclaim for their clarity, contemporary themes, and delivery. What is remarkable about her approach is her enviable ability to distill complicated and often controversial concepts into material that is relevant to the daily practice of the clinician. This incredible agility in thought has been recognized again and again by Faculty of the Year awards.