



Center for Advanced Pediatric and Perinatal Education

Since we opened our doors in 2002, we have developed professional and personal relationships with you and many other wonderful colleagues around the U.S. and the world. This is one way that our team can stay connected, keeping you up-to-date with CAPE's ongoing contributions to pediatric and obstetric simulation, innovation, and research.

Spring 2021



CAPE's Online Simulation Instructor Program

Our team at CAPE is preparing to launch a new, comprehensive [Online Simulation Instructor Program](#). This program is designed to assist [everyone](#) who desires to conduct effective simulation-based training and debriefing, including educators/instructors based within simulation centers but especially those who are practicing healthcare professionals, patient safety officers, risk managers and researchers working in hospitals and clinics. This program is loaded with practical advice and helpful

pointers to enable successful, clinically relevant simulation regardless of your level of experience with simulation, your location or the degree to which your program is supported by your institution. This program will be accredited for CEU and CME. For the latest updates on this course and all things CAPE, ensure that you follow us on [LinkedIn](#), [Facebook](#), and [Twitter](#).

[Watch this free webinar for an introduction to CAPE's current online offering "Strategies for Debriefing Healthcare Scenarios"](#)



Making Our NICU Teams Stronger

In January 2021, CAPE launched multidisciplinary training for healthcare professionals in the neonatal intensive care unit (NICU) at Lucile Packard Children's Hospital (LPCH). Previously, frontline providers in the LPCH NICU underwent simulation-based training in neonatal emergencies in individual groups separated by discipline. In this new training initiative, neonatology fellows, neonatal hospitalists, neonatal nurse practitioners, neonatology attending physicians, and respiratory therapists are coming together on a monthly basis to practice and improve their procedural and team behavioral skills during critical care scenarios and delivery room emergencies.



Restarting Research Safely

After a pause in research activity due to the COVID-19 pandemic, CAPE is pleased to begin restarting a number of research projects in the coming quarter.

- Determining the Objective Markers of Successful Neonatal Intubation to Accelerate Skill Acquisition, Enhance Skill Maintenance, and Improve Safety During Neonatal Resuscitation (PI: Lou Halamek, Stanford University)

This study will provide quantitative data on the technique of intubation via:

- 1) motion tracking of fingers and hands in relation to a) the laryngoscope handle and blade and b) the chin and forehead of the simulated full term and preterm patient simulators (Laerdal Medical, Stavanger, Norway and Sim Characters, Vienna, Austria, respectively)
- 2) measurement of force and torque at the junction of the laryngoscope handle and blade
- 3) determination of the point(s) of visual fixation
- 4) documentation of visible variations in manual technique as displayed by the subjects.

We hypothesize that subjects will display differences in the paths and positions taken by fingers and hands (in relation to the laryngoscope and patient simulator), force and torque used, points of visual fixation, and overall technique and that these differences will a) correlate with the success rates of intubation and b) discriminate between different levels of experience and expertise with intubation. The new knowledge generated by this study will prove useful in designing valid training and assessment tools in the performance of neonatal intubation and will serve as models for similar tools used in the intubation of pediatric and adult

patients. This study is funded by the [Neonatal Resuscitation Program \(NRP\)](#) of the [American Academy of Pediatrics](#) and the [Lucile Packard Children's Hospital Association of Auxiliaries Endowment](#).

- Assessing the Quality of Debriefing in Simulation-Based Medical Education - A Prospective Validation Study of the DART Appraisal Tool (co PI's: Lou Halamek, Stanford University and [Andrew Coggins](#), Westmead Hospital, Sydney Australia)

Debriefing simulated and real clinical events is a key method of improving the performance of healthcare professionals. This study will assess and systematically validate the use of the Debriefing Assessment in Real Time (DART) tool, a quantitative measure of debriefing developed at CAPE. We hypothesize that the DART will exhibit strong inter-rater reliability, internal validity, and external validity.

- Impact of Standardized Communication on Human Performance During Resuscitation (PI: Nicole Yamada, Stanford University)

Can healthcare professionals be trained to use concise, precise, and standardized language to communicate during time-pressured, high-risk events such as neonatal resuscitation, and will this improve team performance? Dr. Yamada is studying resuscitation teams' adherence to the NRP algorithm during simulated neonatal resuscitation scenarios with and without standardized communication to answer these questions. This study is funded by a K08 Award from the Agency for Healthcare Research and Quality.



Our Administrative Office has Moved!

We are excited to announce that our administrative office has moved to one of the newest buildings on campus: The Center for Academic Medicine (CAM), Division of Neonatology at 453 Quarry Road, Palo Alto, CA 94304-1419. We look forward to continuing to support innovative simulation programs, QI projects, and research that benefits team performance and ultimately, patient care and safety. Thank you, to Pediatrics/Neonatology leadership at Stanford University School of Medicine for their advocacy and support.



Thank you, IMSH Attendees

We were excited to participate in the IMSH this year and appreciate everyone who stopped by our virtual booth. Congratulations to the winner of CAPE's raffle for a FREE [Online Debriefing Program](#), Dr. Shin Yuet Chong of Singapore General Hospital!

Why We Exist

Our Vision

A world in which all people receive the safest, most efficient and effective healthcare possible.

Our Mission

To lead the innovation and dissemination of novel methods for improving human and system performance in the delivery of healthcare.

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