



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.

Summer 2023



JUST ANNOUNCED: CAPE's Simulation Instructor Program, March 18-20, 2024

The CAPE team is excited to share that an in-person, Simulation Instructor Program has just been scheduled and sign-ups are OPEN.

This program is designed to assist everyone who desires to conduct effective simulation-based training and debriefing, including educators/instructors who may not be based within simulation centers. The content of this program includes helping teams craft professional learning objectives, create and write realistic clinical scenarios, establish financial and strategic goals, and facilitate constructive debriefings. Practicing healthcare professionals, patient safety officers, risk managers and researchers working in hospitals and clinics are all welcome!

Don't wait - spaces are limited! [Click here](#) to fill out a program application and get your team registered for this program happening March 18th-20th.



Undergraduate Research at CAPE

This summer, CAPE welcomed Annabelle Smith, a rising Stanford University senior undergraduate and middle blocker on the [Stanford's Women's volleyball team](#), as a visiting investigator and observer. Annabelle, who is majoring in biology and minoring in economics, has developed the Self-regulating Physiologic Response and Intensity in Navigating Time-sensitive Situations (SPRINTS) study. She is a recipient of a [Wu Tsai Human Performance Alliance](#) Undergraduate Research Award and recently presented preliminary results of her study at the Undergraduate Research Symposium. Annabelle also had the opportunity to participate in debriefings of simulated and real events, assist with simulation technology operations, and learn more about simulation-based training and research. It was great to have you, Annabelle!

Want to find out more about the research Annabelle was involved in at CAPE? You can

read more about the SPRINTS study in the following section of this newsletter.



Ongoing Research at CAPE

SPRINTS

Over the last few months, multiple research projects have been initiated at CAPE and are in various stages of development. Most recently, Annabelle Smith, in collaboration with CAPE's director, Lou Halamek, MD, FAAP, and Rodrigo Galindo, MSc, launched the SPRINTS study, which focuses on investigating methods for assisting healthcare professionals in self-regulating their physiologic responses (e.g., heart rate, heart rate variability) during time-critical interventions such as neonatal resuscitation. The overall goal of this study is to enable healthcare professionals to control their physiologic response to high-pressure clinical situations and thereby improve their performance (response speed, adherence to algorithms, avoidance of errors of omission and commission, etc.). This study is ongoing with the secondary phase currently underway at CAPE. The SPRINTS study is supported through a grant from the [Wu Tsai Human Performance Alliance](#) and the [Endowment for the Center of Advanced Pediatric and Perinatal Education](#).

NEO

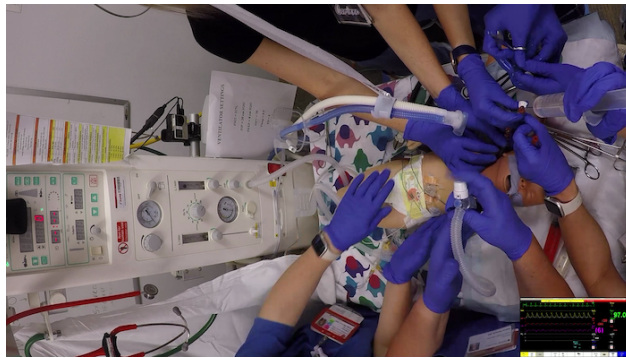
Work is ongoing with the Applying Human Factors Science, Design Thinking and Systems Engineering to Mitigate Threats to Neonates Undergoing Resuscitation and Stabilization grant funded by the [Agency for Healthcare Research and Quality \(AHRQ\)](#). This study is focused on improving neonatal resuscitation by critically examining multiple aspects of the care of newborns in distress in the delivery room. There will be more to report as this study unfolds over the next three years.

OMSNI

The Objective Markers for Successful Neonatal Intubation (OMSNI) study, previously mentioned in an earlier issue of [CAPE's newsletter](#), is nearing completion of its secondary phase. This study aims to analyze the 1) overall technique, 2) force and torque, 3) motion paths, and 4) eye tracking patterns used during neonatal intubation. The overall goal is to discern differences between highly successful and less successful healthcare professionals and develop more effective training strategies in this life-saving skill.

Hannah Gu, MD and Matthew Cranshaw, MD, are scheduled to present at several upcoming professional conferences including the [AAP National Conference and Exposition](#) in Washington DC. The OMSNI study is supported through grants from the [Neonatal Resuscitation Program of the American Academy of Pediatrics \(AAP\)](#), the [Association of Auxiliaries for Children Endowment at Lucile Packard Children's Hospital](#), and the [Endowment for the Center for Advanced Pediatric and Perinatal Education](#).

Read more about research opportunities at CAPE [here](#) or email our team to learn more at contactCAPE@stanford.edu.



NICU Fellows Back at CAPE

Stanford fellows in neonatology recently completed a triad of intense training programs at CAPE. These programs included 1) NeoSim - challenging neonatal resuscitation scenarios; 2) CounselSim - realistic pre- and postnatal counseling situations involving complex fetal disease, life-threatening neonatal conditions and end-of-life/transition of care; and 3) ECMO Sim - multiple emergencies involving both circuit failures and patient decompensation mandating rapid, accurate decision making under tremendous time pressure. All three of these simulation-based training programs also incorporated CAPE's method of debriefing to maximize skill acquisition.

Special thanks to the [NICU Fellowship program](#) for collaborating on a seamless start-to-finish for all three programs, members of the Fetal Center team and the social workers who joined CounselSim, and the NICU nurses who worked alongside the fellows during ECMO Sim.

Be sure to stay tuned and follow all the latest updates about CAPE programs by following us on [Facebook](#), X ([Twitter](#)), and [LinkedIn](#).



Recent Workshop

Earlier this year, Lou Halamek, MD, FAAP, co-led a workshop at the [Pediatric Academic Societies \(PAS\)](#) meeting in Washington DC, with other members of the [National Academy of Distinguished Educators in Pediatrics \(NADEP\)](#). The workshop (Building a Career in Medical Education: From Passion to Profession) addressed the barriers, challenges and solutions for building a career in medical education. It also provided networking and mentoring opportunities with national leaders in medical educators for those in attendance.

NADEP is an honorary service academy comprised of national experts in medical education with the goals of advancing the professional development and careers of pediatric educators, educational scholarship, and pediatric educational programs.

The CAPE team is looking forward to contributing to the next PAS Meeting, May 2-6, 2024 in Toronto, Canada.

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.

Do you know someone that could benefit from subscribing to CAPE's newsletter? [Click here](#) and copy the link to CAPE's sign-up page, or just forward this newsletter directly from your email to share the latest news and updates from CAPE.

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