

include: trauma team activation, waiting room anxiety, and referral delays from the ED). Working with designers and stakeholders (including patient representatives), learners would map the experience of a particular project. Strengths and opportunities for improvements would be identified at each step of the project. The team would then prototype solutions which will be presented to site chiefs for implementation and evaluation. **Conclusion:** Working with designers offers a practical and powerful approach to undertaking QI projects in the ED. We hope that this process allows residents to undertake projects that they are personally invested in and helps build longitudinal relationships beyond direct clinical work with the local ED they are working in

**Keywords:** quality improvement, operations, curriculum

#### LO42

##### **Ice Cream Rounds: the adaptation and implementation of a peer-support wellness rounds in an emergency medicine residency training program**

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**Introduction/Innovation Concept:** Emergency Medicine (EM) is a specialty that requires physicians to deal with acutely ill patients in a fast-paced environment, which can create stress, mental exhaustion and burnout. Continually changing working teams in the Emergency Department does not always allow appropriate debriefing for difficult patient encounters and outcomes on shift. To address these challenges, we sought to adapt and implement a peer-support rounds called 'Ice Cream Rounds' used in some Pediatric training programs for an EM training program. **Methods:** CCFP and Royal College EM residents were surveyed to determine interest and need for Ice Cream Rounds. Of the 31/50 respondents, 87% (26/31) identified their co-residents as their main source of support after difficult patient encounters and 71% (22/31) felt that current opportunities to debrief after difficult experiences were only "sometimes" or "rarely" adequate. Overall, 84% (26/31) were interested in attending Ice Cream Rounds. Residents expressed that they did not want staff present for Ice Cream Rounds so two residents (SCS and TK) obtained training to lead peer-support sessions from The Faculty of Medicine Wellness Program. Attendance at rounds was voluntary and the EM program provided funding for refreshments. Two Ice Cream Rounds were piloted. Attendance and feedback was recorded from pilot sessions. **Curriculum, Tool, or Material:** Resident-only, peer-run confidential debriefing sessions. Sessions were voluntary and lasted one hour. Approximately 20-30/50 residents attended each Ice Cream Rounds. Discussions were confidential but include topics such as difficult patient encounters, poor patient outcomes, challenges in residency, and ethical issues. In response to positive attendance and feedback, the EM program provided 3-4 one-hour protected time slots with a stipend for refreshments for future academic years. Comments from residents consistently reaffirmed that Ice Cream Rounds was a helpful forum to discuss important issues with colleagues and provided a safe and confidential resource to help cope with residency challenges. **Conclusion:** We adapted, implemented, and evaluated a novel Peer-Support Wellness Rounds for debriefing resident issues and difficult patient encounters in a EM training program. To our knowledge this is the first Canadian initiative to implement such rounds in an EM training program. We believe that this template can be easily adopted by any EM training program and will effectively address wellness challenges faced by residents during their training.

**Keywords:** innovations in emergency medicine education, wellness, burn out

#### LO43

##### **Does point of care ultrasound improve resuscitation markers in emergency department patients with undifferentiated hypotension? The first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED 1) Study; an international randomized controlled trial**

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**Introduction:** Point of Care Ultrasound (PoCUS) protocols are commonly used to guide resuscitation for emergency department (ED) patients with undifferentiated non-traumatic hypotension. While PoCUS has been shown to improve early diagnosis, there is a minimal evidence for any outcome benefit. We completed an international multicenter randomized controlled trial (RCT) to assess the impact of a PoCUS protocol on key resuscitation markers in this group. We report diagnostic impact and mortality elsewhere. **Methods:** The SHoC-ED1 study compared the addition of PoCUS to standard care within the first hour in the treatment of adult patients presenting with undifferentiated hypotension (SBP < 100 mmHg or a Shock Index > 1.0) with a control group that did not receive PoCUS. Scans were performed by PoCUS-trained physicians. 4 North American, and 3 South African sites participated in the study. Resuscitation outcomes analyzed included volume of fluid administered in the ED, changes in shock index (SI), modified early warning score (MEWS), venous acid-base balance, and lactate, at one and four hours. Comparisons utilized a T-test as well as stratified binomial log-regression to assess for any significant improvement in resuscitation amount the outcomes. Our sample size was powered at 0.80 ( $\alpha$ :0.05) for a moderate effect size. **Results:** 258 patients were enrolled with follow-up fully completed. Baseline comparisons confirmed effective randomization. There was no significant difference in mean total volume of fluid received between the control (1658 ml; 95% CI 1365-1950) and PoCUS groups (1609 ml; 1385-1832;  $p = 0.79$ ). Significant improvements were seen in SI, MEWS, lactate and bicarbonate with resuscitation in both the PoCUS and control groups, however there was no difference between groups. **Conclusion:** SHOC-ED1 is the first RCT to compare PoCUS to standard of care in hypotensive ED patients. No significant difference in fluid used, or markers of resuscitation was found when comparing the use of a PoCUS protocol to that of standard of care in the resuscitation of patients with undifferentiated hypotension.

**Keywords:** point of care ultrasound (PoCUS), hypotension, emergency medicine

#### LO44

##### **Initial validation of the core components in the SHoC-Hypotension Protocol. What rates of ultrasound findings are reported in emergency department patients with undifferentiated hypotension? Results from the first Sonography in Hypotension and Cardiac Arrest in the Emergency Department (SHOC-ED1) Study; an international randomized controlled trial**

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