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Life after Trauma: A Survey of Trauma Centers Regarding Acute and Post-traumatic Stress Disorders

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US-guided regional anesthesia. They were then randomized to a cadaver or SIM nerve-block model to perform regional nerve blocks. We surveyed the residents to assess their comfort with performing ultrasound-guided nerve blocks, as well as the educational effectiveness of the session. The survey used a Likert scale from 1 to 7. We performed independent-sample t tests to assess if there were significant differences between the two groups.

Results: Twenty-seven residents participated in the session, 13 randomized into the cadaver group (six PGY-1, four PGY-2, and three PGY-3) and 14 into the SIM group (two PGY-1, five PGY-2, seven PGY-3). The average number of previous blocks was 2.07 in the cadaver group and 3.85 in the SIM group. There was no statistically significant difference in comfort level between the cadaver and SIM group (5.3 [SD = .48] vs. 5.9 [SD = .86]; $t [25] = -2.019$, $p = .054$) in comfort performing US-guided nerve blocks after the session. Similarly, there was no significant difference in educational benefit (6.7 [SD = .63] vs. 6.9 [SD = .27]; $t [15.9] = -1.251$, $p = .229$).

Conclusion: There was no significant difference in comfort level between the cadaver and SIM groups. This finding may be confounded by the fact that the SIM group contained more PGY-3 residents and a greater average number of blocks performed prior to the session. However, this data is reassuring given that SIM models are more cost effective and easily accessible for educational purposes. Furthermore, residents found the activity to be extremely beneficial with a rating of 6.8, echoing the necessity of incorporating this into curricula.

21 Life after Trauma: A Survey of Trauma Centers Regarding Acute and Post-traumatic Stress Disorders

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Objective: Patients who suffer a physical trauma are at risk of developing acute stress disorder (ASD) and/or post-traumatic stress disorder (PTSD). Level I trauma centers have an unparalleled opportunity to assess and educate trauma patients and their caregivers about these disorders; therefore, the purpose of this study was to determine whether assessment and educational programs for ASD and PTSD are present at Level I trauma centers in the United States. Additionally, this study strived to identify the protocols employed at these institutions, the health professionals involved, and levels of training provided to resident physicians and nurses regarding these disorders.

Methods: In March and April 2017, we surveyed electronically the trauma program managers and trauma medical directors at 209 adult and 70 pediatric trauma centers. The survey addressed the following items:

populations assessed or educated for ASD and PTSD; timing of assessment or education programs; healthcare professionals involved; specific tools used; and education offered to resident physicians and nurses. Hospital characteristics collected in the survey instrument included the date of establishment, number of hospital beds, annual number of trauma admissions, region in which the hospital is located, residency/fellowship programs offered, and certification status by the American College of Surgeons, state guidelines, or both. This study was declared exempt by the institutional review board.

Results: We received responses from 39.7% (N=84) of adult and 41.4% (N=29) of pediatric trauma centers. Of the responding institutions, 16.0% of adult and 44.8% of pediatric hospitals reported having a written protocol to assess patients for ASD, PTSD, or both. Additionally, 8.8% of adult and 39.3% of pediatric hospitals reported having a written protocol to educate patients about ASD, PTSD, or both. For caregivers of trauma patients, 3.8% of adult and 25% of pediatric hospitals reported having a written protocol to assess for ASD, PTSD, or both. We found that 8.6% of adult and 18.5% of pediatric trauma centers reported having a written protocol to educate caregivers about ASD, PTSD, or both.

Conclusion: A minority of U.S. Level I trauma centers offers assessment or educational protocols for these disorders. Left unchecked, the personal repercussions and societal costs continue to escalate.

22 Association Between Post Graduate Year and Adverse Events/Error of Emergency Department Admissions

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Objective: EM residents are supervised by attending physicians when they work in the ED. Therefore the Post-Graduate Year (PGY) level should not influence care. Unexpected floor to ICU transfers can often be an indication for an adverse event or error (AEE). These transfers have been shown to have higher mortality than patients admitted directly to the ICU. Floor to ICU transfer have been monitored as an area of quality improvement. It is unclear if the level of training of the EM resident correlates with AEE in the floor to ICU transfer population.

Design and Method: This retrospective study was done at an urban, academic tertiary care referral center with an affiliated 3 year EM residency. All patients presenting to the ED between 07/01/2012 to 06/30/2015 who had a floor to ICU transfer in the first 24 hours of ED admission had a review by a member of the QA committee. These cases