

handovers were observed. Information was often missing regarding airway (present 22%), breathing (54%), medications (59%), and allergies (54%). Handover structure lacked consistency beyond the order of identification and mechanism of injury. Only 28% of handovers had a dedicated question and answer period. Of all questions asked, 35% were questioning previously given information. EMS returned to categories of information unprompted in 84% of handovers. The majority of handovers (61%) involved parallel conversations between team members while EMS was speaking, which was associated with a greater number of interrupting questions from the trauma team (3.15 vs. 1.82, $p = .001$). There was a statistically significant disparity between the self-evaluation of EMS handovers and the perceived quality determined by nurses and trauma team leaders. **Discussion/Impact:** At our trauma centre, we have identified the need for handover standardization due to poor information content, a lack of structure and active listening, significant information repetition, and discordant expectations between EMS, nurses, and TTLs. We intend to use our results to guide the development of a co-constructed framework integrating the perspectives of all team members on the trauma team.

Keywords: emergency medical services, handover, quality improvement and patient safety

P080

Trauma experiences of rural emergency physicians: a self assessment

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Introduction: The purpose of this study was to identify, through self-assessment, how comfortable rural emergency medicine (EM) practitioners are in treating critically ill trauma patients, the resources available to treat such patients and their comfort with performing trauma procedures. Our goal is to enhance rural trauma care by identifying obstacles rural EM physicians face in Saskatchewan. **Methods:** This was a cross sectional survey study, emailed to family physicians practicing rural EM in Saskatchewan identified through the Saskatchewan Medical Association database. Inclusion criteria included physicians who are providing EM care currently or within the past year. Rural was assumed to be communities in Saskatchewan that were outside of Saskatoon and Regina. The survey was an anonymous self-assessment regarding demographics, training, hospital resources and comfort. **Results:** 113 physicians of the 479 rural physicians agreed to participate, 78 met our inclusion criteria. Most (67%) were from communities with less than 10,000 population, 70% had less than 300 ED visits per month. Most (68%) were less than 45 years of age. In terms of training, 57% had completed undergraduate training out of Canada and 63% had completed residency training in Canada. Most had been practicing for more than 2 years (76%). Most (59%) had current ATLS credentials, however only 37% had ever completed the EDE course. Regarding available resources, most centers had plain radiography (99%), POCUS (68%), PRBC (78%) and TXA (93%). However, fresh frozen plasma (41%) and platelets (26%) were not widely available. Comfort was measured on a Likert scale. The types of trauma that respondents were least comfortable with included pediatric (39%), vascular (46%), spine (56%) and genitourinary (60%). The types skills that participants were least

comfortable with included pericardiocentesis (19%), and surgical airway (25%). The majority had not performed Pediatric endotracheal tube insertion (79%), surgical airways (99%), pericardiocentesis (99%), central venous line placement (80%) and needle thoracostomy (71%) within the past 12 months. **Conclusion:** This self-assessment helped us identify aspects of rural trauma medicine that are the most challenging for rural practitioners. Understanding the most difficult challenges in light of the critical resources available to rural trauma medicine providers will inform future professional development initiatives.

Keywords: rural, self-assessment, trauma

P081

The summer of the e-scooter: a multicenter evaluation of the emergency department impact of rentable motorized scooters in Calgary

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Introduction: Calgary's introduction of rentable electronic scooters (e-scooters) in July of 2019 was met with wild popularity, representing the third most popular launch after Tel-Aviv and Paris. The present study aims to characterize the injury burden seen in all Calgary Emergency Departments (EDs) and Urgent Care Centres (UCCs) attributable to e-scooters since their 2019 introduction. **Methods:** We retrospectively reviewed all electronic medical records of patients presenting to Calgary EDs or UCCs with the term "scooter" in the triage note, where exclusion criteria are considered for non e-scooter injuries (e.g. non-motorized scooters). Trends in scooter injuries will be compared between April - October 2018 (control arm preceding e-scooter introduction) and April - October 2019. Injury incidence, types, patient demographics, and relative risk compared to bicycle-related injuries will be determined. Descriptive statistics will be calculated. Moreover, 33 ED visits were brought in by EMS and provide information about injury types and locations of injuries involving EMS transport. **Results:** Preliminary data reveals 540 scooter-related visits (3.10% admitted/transferred) between July 8th and September 30th 2019 (mean age of 28, 56.30% male). Conversely, the number of bicycle-related visits and motor vehicle related injuries were 1482 and 586 (9.90% and 9.70% admitted/transferred) respectively over the same time period suggesting a greater burden but likely a lower per-ride incidence of injury requiring ED or UCC care. Moreover, between July 8th to October 1st 2019, 33 e-scooter presentations involved EMS (21.21% admitted to hospital), where 12.12% involved upper extremity injury, 21.21% were lower extremity injuries, and 6.06% were head injuries (mean age of 34, 48.48% male). Conversely, estimated EMS transfers to EDs or UCCs for bicycle injuries and motor vehicle injuries were 197 and 463 respectively over the same time period. ICU admissions or fatality were not recorded. **Conclusion:** Representing the most comprehensive study of e-scooter injury patterns in Canada to date, we here demonstrate a significant injury burden attributable to e-scooters following their introduction in Calgary in 2019. Bicycle-related and motor vehicle injuries were both more prevalent in this time period, and required more EMS visits. Further characterization of injury types, injuries and comparison with injury patterns prior to e-scooter introduction is yet to be determined.

Keywords: ambulance, e-scooter, injury