system to improve early recognition of injury, admission pathways, clinical management and outcomes for those aged ≥65yrs (LMTS Older Trauma Guidance). The aim of our study was to assess the impact of the guideline on our trauma processes and patient outcomes.

**Methods/Design** This retrospective analysis of TARN compared process and outcome data for patients aged ≥65yrs admitted to hospitals within the North East London and Essex Trauma Network, pre (01/01/2016–31/07/2018) and post (01/08/2018–31/07/2020) guidance introduction. The primary outcome was mortality at 30 days post injury.

**Results/Conclusions** There were 4317 patients pre and 3992 patient post guidance. Time to CT reduced on average by 57 minutes, Neurotrauma transfers decreased from 2116 patients to 1519 patients and more older patients were discharged for rehabilitation. Older trauma mortality reduced across the network post guidance (13.59% vs 10.64%). The greatest mortality reductions were seen in Trauma Units, (19.20% pre vs 6.99% post) with increasing benefit seen with advancing age: reduced 75–84 years by 2.20%; 85–94 years 2.41%; 95+ years by 7.44%.

This analysis suggests that dedicated guidance highlighting the special needs and risk profiles of older trauma patients significantly improves processes and outcomes. Improvements in early assessment and time to imaging appear to result in enhanced survival. Further research at a system level is required.

### 1087 A SERVICE EVALUATION OF THE IMPACT OF E-SCOOTERS ON EMERGENCY DEPARTMENTS IN BRISTOL (THE SEED STUDY)

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Aims/Objectives Background E-scooters have risen in popularity worldwide. However, e-scooter associated injuries have become a growing area of concern. In the UK, rental e-scooters became legalised in 2020, and have been rolled out in several UK cities. There is no published UK literature reporting e-scooter related injuries. This service evaluation aims to evaluate the impact of e-scooters on Emergency Departments (ED) within one UK city.

Methods/Design Between May to June 2021, we conducted an approved (CE:74681) prospective observational service evaluation for a 4-week period across three EDs; one Adult Major Trauma centre (MTC), one city-centre Trauma Unit and one Paediatric MTC. All patients presenting to ED with an injury associated with an e-scooter (driver, passenger or bystander) were identified prospectively. Data collected included information on context of injury event and key clinical variables. Data was entered onto the online platform REDCap, and exported into Excel for analysis. Descriptive statistics are presented.

Results/Conclusions Ninety patients with an e-scooter related injury presented to ED during the evaluation. Median age was 25 years (IQR, 20-33). Findings demonstrate head, upper limbs and lower limbs were commonly injured. Of the 19% who experienced a head injury, two patients sustained an intracranial haemorrhage and one a basal skull fracture. Fractures were diagnosed in 41% of patients. Only 7% of riders were helmeted and 28% were intoxicated with alcohol. In total 62 x-rays and 13 CTs were undertaken. Although the majority were discharged following minor injuries, 11% of patients required admission, including one major trauma.

Whilst e-scooters are a convenient mode of transport, riders are vulnerable to traumatic injuries of varying severity. Notably, low rates of helmet use and high prevalence of alcohol intoxication, suggest a need for targeted public health interventions. Future large-scale research is required to better evidence injury patterns and severity, identify modifiable risk factors and inform policy.

### 1062 DISEASE BURDEN, ACUITY AND PATIENT MANAGEMENT IN EMERGENCY CARE PRESENTATIONS TO UGANDAN FACILITIES

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Aims/Background Emergency care is being provided to, and utilised by, Ugandan patients despite there being no formal system capable of producing optimal outcomes. For the country’s emergency care system to be appropriate and contextualised, there must first be an understanding of the actual utilisation of emergency care services. Current coding systems for analysing and comparing disease burden across sites do not adequately represent the patient population and resources required for quality emergency care to be delivered.

Objective To describe the burden of disease, acuity and management of emergency patients presenting to secondary Ugandan health facilities.

Methods/Design A retrospective review of 4704 emergency care patient charts from November 2018 to April 2019 was performed from 11 sites throughout Uganda. A novel diagnostic coding system was developed for use in LMIC emergency care contexts consisting of 482 codes, 158 sub-categories and 7 disease classes.

Results 6506 diagnoses were recorded, 34.98% of patients had 2 or more diagnoses. 33.8% were conditions of non-infective origin, 30.1% conditions of infective origin and 25.7% injury. Top 5 diagnoses were malaria, anaemia, pneumonia, head injury and soft tissue injury. Patient charts documented triage in 0.13% of cases, at least 1 vital sign in 42.3% of cases and at least 1 form of examination in 41.4% of cases. 62.3% patients had at least 1 form of investigation. 73.2% of patients received an IV treatment, most commonly antibiotics (52.5%) and IV crystalloids (33.1%).

Conclusion This is the first study of all-cause disease burden and management of emergency patients presenting across multiple Ugandan facilities. The development and application of an emergency care specific diagnostic coding system applicable to LMICs is a vital step to enable understanding and comparison across facilities. By appreciating the burden of emergency care disease, strategies can be put in place to implement an integrated emergency care system in Uganda.