

management strategies, managing complexity and ambiguity, inter-professional relationships and fear of professional consequences. These candidate themes will continue to be developed and refined during the remaining analysis.

**Conclusion** Restraint decisions take place in the context of high levels of complexity and ambiguity, limited clinical management options and rely on effective communication and collaboration with partner agencies, such as the police. Paramedics are motivated by patient-centred issues including advocacy and improving outcomes, and at times experience tensions with practitioner-centric issues such as fear of adverse professional consequences.

#### REFERENCE

- Braun V, Clarke V. Using thematic analysis in psychology. *Qualitative Research in Psychology* 2006;**3**(2):77–101.

**Conflict of interest** None to declare.

**Funding** None.

## Pain and trauma

### 239 USING REAL-WORLD DATA TO PREDICT PAIN RECORDING AND PAIN SEVERITY IN THE PRE-HOSPITAL EMERGENCY SETTING – AN OBSERVATIONAL ANALYSIS OF 212,401 EPISODES OF CARE

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**Background** Previous studies in the prehospital setting have reported wide variation in the incidence and severity of pain, and that documentation of pain scores is poor. The aim of our study was to investigate and describe the incidence and severity of patient-reported pain that is recorded by pre-hospital emergency care patients in Ireland.

**Method** We used data from our electronic patient care record (ePCR) repository to perform this retrospective cohort study of all emergency care episodes recorded by National Ambulance Service practitioners during 2020. Descriptive analysis of patient and care characteristics and regression analyses for the outcomes pain recorded and severity of pain were performed.

**Results** Of the 212,401 patient care episodes included, 138,195 (65%) included a pain score (75,445 = no pain; 18,378 = mild pain; 21,451 = moderate pain; 22,921 = severe pain). The likelihood of pain being recorded was most strongly associated with the Glasgow Coma Score, working diagnosis, call location, and patient age. The variables showing strongest association with pain severity were transport outcome, working diagnosis, and patient age. Sensitivity analysis confirmed that all regression models performed better than chance, but that all models were relatively weak at predicting the outcomes.

**Conclusion** Using a large real-world dataset, we have demonstrated patient and care episode characteristics that are associated with recording and severity of self-reported pain. We have identified actionable improvements that will strengthen the prediction accuracy of routinely collected data and ultimately improve pain management for our patients.

**Conflict of interest** None to declare.

**Funding** No specific funding received or sought for this study.

## Dispatch and triage

### 242 LARGE VESSEL OCCLUSION STROKE IN AN EMERGENCY CALL: A DESCRIPTIVE ANALYSIS OF EMERGENCY CALLS FOR THROMBECTOMY CANDIDATES

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**Background** Large vessel occlusion strokes cause most of the post-stroke disability and mortality. In this study, we aim to find out common words and phrases used in the emergency calls for paramedic-suspected thrombectomy candidates. Also, we wanted to find out how a question about conjugate eye deviation, an indicator of vast cortical ischemia, arises in the Finnish stroke dispatch protocol.

**Method** This was a retrospective study with descriptive analysis of emergency calls for patients with paramedic-suspected large vessel occlusion stroke. We listened to the emergency calls for 157 patients transported to a Finnish comprehensive stroke centre.

**Results** Speech disturbance was the most common symptom brought up in 125 (80%) calls, followed by tripping (n=63, 40%) and facial asymmetry (n=41, 26%). Suspicion of stroke was mentioned by 44 (28%) callers. Inability to speak any words was mentioned in 65 calls (52% of calls with speech disturbance). Otherwise, difficulty to speak was described, for example, as a lisp, mumble or slurred speech. Conjugate eye deviation was definitively heard in 12 emergency calls. Ten of these patients were diagnosed with large vessel occlusion.

**Conclusion** In the emergency calls for patients with paramedic-suspected large vessel occlusion, typical stroke symptoms were described. The severity of the stroke stood out by the patients' inability to speak any words or remain standing. It is possible to further develop stroke dispatch protocols to recognise thrombectomy candidates already during an emergency call.

**Conflict of interest** None.

**Funding** None.

## Cardiac arrest

### 244 ABSTRACT WITHDRAWN

## Miscellaneous

### 245 SITUATIONAL AWARENESS AMONG PREHOSPITAL PROVIDERS DURING AN ONLINE HIGH-FIDELITY SIMULATION – A NOVEL STUDY

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