Aims/Objectives/Background Sepsis is a major cause of morbidity and mortality and many tools exist to facilitate early recognition. The current international consensus definition of sepsis recommends the use of the quick Sequential Organ Failure Assessment (qSOFA) score in the emergency department (ED) to rapidly identify those who are likely to have poor outcomes. Early Warning Scores (EWS) are used more routinely; if these could provide the same information, they could allow standardisation and streamlining of effort.

This review compares two tools qSOFA and EWS (National/Modified Early Warning Scores (NEWS/MNEWS)) for predicting intensive care (ICU) admission and mortality when applied to suspected sepsis patients in the ED.

Methods/Design A literature search was conducted using Medline, CINAHL, Embase, and Cochrane Library, hand searching of references and a grey literature search with no language or date restrictions. Two authors selected studies and quality assessment completed using QUADAS-2. Area under the Receiver Operating Characteristic Curve (AUROC), sensitivity whilst qSOFA favoured specificity. At established thresholds NEWS trended to higher specificity. How-ever, individual papers mostly reported higher AUROC values for NEWS than qSOFA. NEWS demonstrated a trend to better sensitivity for ICU admission (NEWS≥5 0.46–0.91; qSOFA≥2 0.12–0.53) and mortality (NEWS≥5 0.51–0.97; qSOFA≥2 0.14–0.7) but lower specificity (ICU: NEWS≥5 0.25–0.91; qSOFA≥2 0.67–0.99. Mortality: NEWS≥5 0.22–0.91; qSOFA≥2 0.58–0.99).

Conclusion The wide range of AUROC estimates and high heterogeneity limit our conclusions. Allowing for this, the NEWS AUROC was consistently higher than qSOFA within individual papers. Both scores allow threshold setting, determined by the preferred compromise between sensitivity and specificity. At established thresholds NEWS trended to higher sensitivity whilst qSOFA favoured specificity.

Aims/Objectives/Background The safe discharge of COVID-19 patients from the emergency department (ED) is difficult due to uncertainties surrounding the trajectory of the disease course. The infectivity of COVID-19 also limits follow-up options. A novel pathway consisting of home pulse oximetry with telephone follow-up was created to facilitate safe discharge from the ED of a London district general hospital. The primary objective was to utilise home pulse oximetry to prevent hospital admission. The secondary objective was to identify those requiring further care or investigation.

Methods/Design Adult patients with confirmed or suspected COVID-19 with oxygen saturations of between 90–94% who were otherwise suitable for discharge were identified. These patients were discharged from the ED with a pulse oximeter. Oxygen saturations were measured three times a day for seven days. Patients received a structured telephone consultation on days two, five and seven post-discharge from the ED, and a decision was made as to whether further clinical assessment in the ED was necessary. The secondary objective was to identify those requiring further care or investigation.

Results/Conclusions Of the twenty patients discharged on the pathway, 85% avoided hospital admission, whilst 15% were re-assessed and subsequently admitted to hospital. 20% of patients required re-assessment in the ED but did not require admission.

Home pulse oximetry with telephone follow-up was used to prevent hospital admission in a considerable proportion of patients who would have otherwise been admitted in the absence of this pathway. Telephone follow-up effectively identified patients who required further clinical assessment. Increasing age, the presence of co-morbidities, and pulmonary infiltrates on chest radiograph were more common in the cohort who required re-assessment. This study demonstrates the potential for safe ambulation of a subgroup of patients with COVID-19, whilst identifying practical inclusion criteria which could be replicated in ambulatory units across the UK.
lower albumin at presentation predicted critical care admission and mortality. Non-white ethnicity predicted critical care admission but not death. Social deprivation was not predictive of outcome. A risk score was developed incorporating twelve characteristics: age > 40, male, non-white ethnicity, oxygen saturations < 93%, radiological severity score > 3, neutrophil count > 8.0 x 10^9/L, CRP > 40 mg/L, albumin < 34 g/L, creatinine > 100 μmol/L, diabetes mellitus, hypertension and chronic lung disease. Risk scores of 4 or higher corresponded to a 28-day cumulative incidence of critical care admission or death of 40.7% (95% CI: 37.1 to 44.4), versus 12.4% (95% CI: 8.2 to 16.7) for scores less than 4.

Conclusion Our study identified predictors of critical care admission and death in people admitted to hospital with COVID-19. These predictors were incorporated into a risk score that will inform clinical care and stratify patients for clinical trials.

**Aims/Objectives/Background** Fractured neck of femur is a common presentation and is associated with high rates of morbidity and mortality. RCEM Best Practice specifies that Fascia Iliaca Block should be available in Emergency Departments as part of the pain management strategy.

**Aims**
1. Improve compliance with RCEM guidance for safe administration, documentation and post-procedure monitoring following FIB.
2. Employ QIP methodology to create a FIB protocol.
3. Empower the junior SHO workforce to gain competence in FIB administration through structured teaching.
4. Improve understanding of post-block monitoring in nursing and medical staff.

**Methods/Design** Data collection identified the number of blocks administered to those presenting with fractured neck of femur in November 2019. Documentation and post-procedure monitoring were evaluated.

Interventions were piloted in January 2020. These were: pre-made block packs, a block checklist sticker incorporating post-procedure monitoring chart and laminated ‘quick prompt’ guide.

Nurse champions facilitated MDT teaching sessions and junior SHOs were empowered to gain competence in block administration through teaching sessions.

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