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Which patients should be pre-alerted? A review of UK ambulance service guidelines



Introduction

- Pre-alert calls made by ambulance clinicians make the receiving emergency department (ED) of the imminent arrival of critically unwell or deteriorating patients.
- Patient presentations requiring a pre-alert are varied, but may include abnormal physiology (e.g ↓GCS) and time-critical presentations e.g acute stroke and STEMI
- Over or inappropriate use of pre-alerts may lead to pre-alerts not being responded to appropriately, and diverts resources from critically unwell patients
- We undertook an appraisal of ambulance service guidance on pre-alerts to explore how the guidance differs between services and national pre-alert guidance.

Methods

- Contacted all 19 UK ambulance services and asked for latest pre-alert guidance.
- Summarised the clinical conditions, terminology and physiological thresholds listed by each ambulance service
- Compared to RCEM/AACE guidelines (2021).

Implications

- Variation in terminology could cause confusion for ED's that receive pre-alerts from multiple ambulance service.
- Differing pre-alert thresholds for pre-alerting can cause variations in care.
- Policies should focus on clinical care, not processes.
- Tools should complement policies to assist clinicians in the decision to make a pre-alert.

Results

- Responses from 15/19 Ambulance Services.
- 2 services reported that they had no specific pre-alert guidance.
- 1 service had policies regarding the process of pre-alerts only (No clinical conditions listed).
- 2 services were unable to locate guidance relating to presentations requiring a pre-alert.
- 1 service exclusively utilised the AACE/RCEM guidance.
- Between 4-45 different conditions listed
- Significant inconsistencies in the criteria for pre-alerts and the language and terminology used, even with known care pathways
- Variation in physiological thresholds for pre-alerts.

| | RCEM/AACE | East of England | London | North West | South Central | South Western | West Midlands | Yorkshire | Welsh |
|--|---|------------------------------------|--|---|---|---------------------------------|--|-----------|--|
| Conditions matched with RCEM/AACE Guidelines | | 3/23 | 4/23 | 6/23 | 10/23 | 7/23 | 19/23 | 10/23 | 10/23 |
| Respiratory Rate | | | | <10 or >30 for adults | Abnormal breathing rate of irregular breathing pattern (e.g. Cheyne Stokes Breathing) | ' | ≤8 or ≥25 | ≤8 or ≥25 | |
| Chest Pain | ST elevation MI Complete heart block or broad complex tachycardia with adverse features (shock, syncope, heart failure, myocardial ischaemia) | | Current cardiac chest pain with abnormal ECG (e.g. heart block, BBB) | STEMI, or Cardiac Chest pain where cardiac cause is suspected | STEMI, or patients with signs of cardiogenic shock | STEMI or circulatory compromise | STEMI or incomplete heart block | STEMI | ST Elevation indicative of an M for early thrombolysis, or haemodynamical y unstable with signs and symptoms of shock. |
| Stroke | FAST-positive stroke within timeframe for thrombolysis | Use BE-FAST standardised framework | · | New stroke with symptom onset of no more than 4 hours | (FAST positive) | FAST positive stroke | FAST positive and within time frame for thrombolysis | • | |
| Level of Consciousness | Unconscious with a GCS motor score of less than | | Reduced ACVPU | GCS <8 | P/U on ACVPU scale, or injured with GCS Motor Score <4 | GCS <14 | Unconscious with GCS Motor Score <4 | | Trauma patients with GCS <9 or fall of >2 since patient contact. Medical patients unconscious |