

| Appendix 4: Quality Indicators reaching consensus agreement - Clinical Category | | | | |
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| Subcategory type | Applicable Scope of Practice | | | QI Classification |
| | Basic Life Support | Intermediate Life Support | Advanced Life Support | |
| Acute Coronary Syndromes /ST Elevation Myocardial Infarctions subcategory | | | | |
| Patients with a provisional diagnosis of ACS/STEMI who had an ALS practitioner in attendance | | | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who had a set of defined cardiac risk factors assessed and recorded | | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who had a 12 lead ECG obtained | | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who were administered Aspirin | X | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who were administered GTN | | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who were assessed for suitability for thrombolysis by defined checklist | | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who were administered prehospital thrombolysis | | | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who were transported directly to a Facility with PCI capabilities | X | X | X | Process |
| Patients with a provisional diagnosis of ACS/STEMI who had EMS activation of the receiving Cath Lab | X | X | X | Process |
| Patients who received/met all components of a defined ACS/STEMI composite bundle score | | | X | Process |
| Acute Pulmonary Oedema subcategory | | | | |
| Patients with a provisional diagnosis of APO who were administered GTN | | X | X | Process |
| Patients with a provisional diagnosis of APO who received CPAP | | | X | Process |
| Patients with a provisional diagnosis of APO who had a 12 lead ECG obtained | | X | X | Process |
| Airway Management subcategory | | | | |
| Patients who received a pre-ETI paralytic, following which there was a decrease in SpO2 > 10% from baseline/or decrease below 70% overall | | | X | Process |
| Patients successfully intubated by EMS personnel where EtCO2 monitoring was used post ETI | | | X | Process |
| Patients successfully intubated via RSI by EMS personnel where a paralytic agent was administered post-ETI | | | X | Process |
| Patients successfully intubated by EMS personnel where a sedative agent was administered post-ETI | | | X | Process |
| Patients successfully intubated by EMS personnel where a mechanical ventilator was used post-ETI for ventilation | | | X | Process |
| Patients in whom ETI was attempted by EMS personnel who had an alternative airway inserted as a final airway | | | X | Process |
| Patients in whom ETI was attempted by EMS personnel who had a surgical airway inserted | | | X | Process |
| Patients successfully intubated by EMS personnel with an EtCO2 < 30 mmHg or > 50 mmHg post-ETI > 10 mins during EMS care | | | X | Process |
| Patients in whom RSI with ETI was unsuccessful when attempted by EMS personnel | | | X | Process |

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| Patients in whom Non-RSI ETI was unsuccessful when attempted by EMS personnel | | | X | Process |
| Patients in whom RSI with ETI was successful when attempted by EMS personnel | | | X | Process |
| Total number of patients successfully intubated via RSI by EMS personnel | | | X | Process |
| Patients who received/met all components of the defined Airway management composite Bundle score | | | X | Process |
| Anaphylaxis subcategory | | | | |
| Patients with a provisional diagnosis of Anaphylaxis and evidence of bronchoconstriction documented who were administered a B2 agonist | | X | X | Process |
| Patients with a provisional diagnosis of Anaphylaxis and evidence of bronchoconstriction documented who were administered an Anti-cholinergic bronchodilator | | X | X | Process |
| Patients with a provisional diagnosis of Anaphylaxis who were administered an antihistamine | | | X | Process |
| Patients with a provisional diagnosis of Anaphylaxis who were administered a corticosteroid | | | X | Process |
| Patients with a provisional diagnosis of Anaphylaxis and signs of a severe systemic response recorded who were administered IM Adrenaline | | | X | Process |
| Asthma/Bronchoconstriction | | | | |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction with lung sounds assessed and documented (pre and post treatment) | X | X | X | Process |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction with a SpO2 documented (pre and post treatment) | X | X | X | Process |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction who were administered a B2 agonist bronchodilator | | X | X | Process |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction who were administered an anticholinergic bronchodilator | | X | X | Process |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction who were administered a corticosteroid | | | X | Process |
| Patients with a provisional diagnosis of Asthma/Bronchoconstriction recorded with documented severe wheezes/silent chest/BP < 90 mmHg systolic BP who were administered IM Adrenalin | | | X | Process |
| Patients who received/met all components of the defined Asthma/Bronchoconstriction composite bundle score | | | X | Process |
| Burns subcategory | | | | |
| Patients with a provisional diagnosis of Burns with burns dressings applied | X | X | X | Process |
| Patients with a provisional diagnosis of Burns with body surface area and burns type assessed and recorded | X | X | X | Process |
| General subcategory | | | | |
| Serviceable suction unit devices available per defined area and/or time period | | N/A | | Structure |
| Serviceable 3 lead ECG monitoring devices available per defined area and/or time period | | N/A | | Structure |
| Serviceable 12 lead ECG monitoring devices available per defined area and/or time period | | N/A | | Structure |
| Serviceable portable oxygen cylinders available per defined area and/or time period | | N/A | | Structure |
| Serviceable Defibrillator/AED devices available per defined area and/or time period | | N/A | | Structure |

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| Serviceable mechanical ventilators available per defined area and/or time period | N/A | | | Structure |
| Patients with reduced level of consciousness with a blood glucose measured | X | X | X | Process |
| Patients with a recorded SpO2 < 95% who were administered supplemental Oxygen | X | X | X | Process |
| Patients with a provisional diagnosis recorded | X | X | X | Process |
| Hypoglycaemia subcategory | | | | |
| Patients with a blood glucose level < 5 mmol who were administered Glucose | X | X | X | Process |
| Patients with a blood glucose level measured and recorded following Glucose administration | X | X | X | Process |
| Neonate/Paediatric subcategory | | | | |
| One min APGAR score assessed and recorded for newborn patients | X | X | X | Process |
| Five min APGAR score assessed and recorded for newborn patients | X | X | X | Process |
| Paediatric patients with a provisional diagnosis of Croup who were administered oral/inhaled steroids | | | X | Process |
| Paediatric patients with a provisional diagnosis of Croup who were administered nebulized Adrenalin | | | X | Process |
| Patient transportation to a facility with specialist Paediatric capabilities/resources | X | X | X | Process |
| Obstetrics subcategory | | | | |
| Obstetric patients who deliver prior to EMS arrival | X | X | X | Process |
| Obstetric patients with postpartum haemorrhage who were administered TXA | | | X | Process |
| Obstetric patients with a provisional diagnosis of Eclampsia or Pre-eclampsia who were administered Magnesium sulphate | | | X | Process |
| Obstetric patients who deliver during EMS care | X | X | X | Outcome |
| OHCA subcategory | | | | |
| Patients with a provisional diagnosis of OHCA with a witnessed collapse documented | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA who received documented bystander CPR | N/A | | | Process |
| Patients with a provisional diagnosis of OHCA who received documented telephonic CPR advice | N/A | | | Process |
| Patients with a provisional diagnosis of OHCA with VF/VT as first presenting rhythm on arrival of EMS | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA with Asystole/PEA as first presenting rhythm on arrival of EMS | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA intubated with alternative airway device | | | X | Process |
| Patients with a provisional diagnosis of OHCA for whom resuscitation was cancelled prior to arrival at hospital | | | X | Process |
| Patients with a provisional diagnosis of OHCA who were transported to hospital (incl. ROSC and Non-ROSC patients) | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA with ROSC at hospital handover | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA with VF/VT at hospital handover | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA with Asystole/PEA at hospital handover | X | X | X | Process |

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| Patients with a provisional diagnosis of OHCA with survival to Emergency Centre discharge | X | X | X | Process |
| Patients with a provisional diagnosis of OHCA with survival to hospital discharge | X | X | X | Outcome |
| Pain Management subcategory | | | | |
| Patients with level of Pain measured via defined pain score | X | X | X | Process |
| Patients with a defined pain score threshold who were administered analgesia | | X | X | Process |
| Patients with level of pain measured via defined pain score following analgesia administration | X | X | X | Process |
| Seizures subcategory | | | | |
| Patients with a provisional diagnosis of Seizures with a blood glucose measured and recorded | X | X | X | Process |
| Patients with a provisional diagnosis of Seizures who were administered an antiepileptic for ongoing Seizures | | | X | Process |
| Stroke/TIA subcategory | | | | |
| Patients with a provisional diagnosis of Stroke/CVA/TIA with a blood glucose measured and recorded | X | X | X | Process |
| Patients with a provisional diagnosis of Stroke/CVA/TIA with a Stroke screening assessment performed (e.g.: FAST) | X | X | X | Process |
| Patients with a provisional diagnosis of Stroke/CVA/TIA with serial blood pressure measurements recorded (X3) | X | X | X | Process |
| Patients with a provisional diagnosis of Stroke/CVA/TIA delivered to a specialist Stroke Centre | X | X | X | Process |
| Patients with a provisional diagnosis of Stroke/CVA/TIA with direct delivery to CT scan | X | X | X | Process |
| Patients who received/met all components of the defined Stroke/CVA/TIA composite bundle score | X | X | X | Process |
| Trauma subcategory | | | | |
| Patients designated as a trauma case with entrapment on scene documented | X | X | X | Process |
| Patients designated as a trauma case with a BP < 90 mmHg | | N/A | | Process |
| Patients designated as a trauma case with partial/full amputation who had a tourniquet applied | X | X | X | Process |
| Patients designated as a trauma case with a femur fracture and traction splint use | X | X | X | Process |
| Patients designated as a trauma case with a BP < 90 mmHg who were administered TXA | | | X | Process |
| Patients designated as a trauma case with direct transportation to a specialist Trauma Centre | X | X | X | Process |

| Quality Indicators reaching consensus agreement – Non-clinical Category | | | | |
|--|------------------------------|---------------------------|-----------------------|-------------------|
| Subcategory type | Applicable Scope of Practice | | | QI Classification |
| | Basic Life Support | Intermediate Life Support | Advanced Life Support | |
| Adverse Events subcategory | | | | |
| Number of patient deaths while in EMS care | X | X | X | Adverse Event |
| Number of defined Adverse Events reported during EMS care | X | X | X | Adverse Event |
| Number of defined equipment/technical failures reported during EMS care | N/A | | | Adverse Event |
| Number of accidental or unexpected extubations reported during EMS care | | | X | Adverse Event |
| Number of patients with a decrease in GCS of 3 or more points during EMS care | X | X | X | Adverse Event |
| Number of defined failed intubation attempts | X | X | X | Adverse Event |
| Total number of patient injury reports during EMS care | X | X | X | Adverse Event |
| Number of EMS staff on-duty injury reports | N/A | | | Adverse Event |
| Number of defined medication errors during EMS care | X | X | X | Adverse Event |
| Communications/Dispatch subcategory | | | | |
| Number of cases compliant with defined ALS Dispatch criteria | N/A | | | Structure |
| Number of cases with call processing time within defined limits | N/A | | | Structure |
| Number of Service Call Centre calls received per 10000 population | N/A | | | Structure |
| Number of unanswered/missed calls to the Service Call Centre | N/A | | | Structure |
| Number of cases with a delay in dispatch and/or response time waiting for a police/security escort | N/A | | | Process |

ACS – Acute Coronary Syndrome; **AED** – Automated External Defibrillator; **ALS** – Advanced Life Support; **APGAR** – Activity, Pulse, Grimace, Appearance, Respiration; **APO** – Acute Pulmonary Oedema; **BBA** – Born before arrival; **BP** – Blood pressure; **CPD** – Continued professional development; **CPR** – Cardiopulmonary resuscitation; **CT** – Computed tomography; **CVA** – Cerebrovascular accident; **ECG** – Electrocardiogram; **EMS** – Emergency Medical Service; **EtCO2** – End tidal carbon dioxide; **ETI** – Endotracheal intubation; **ETT** – Endotracheal tube; **FAST** – Face Arm Speech Time; **GCS** – Glasgow Coma Scale; **GTN** – Glyceryl trinitrate; **HEMS** – Helicopter Emergency Medical Service; **IO** – Intraosseous; **IOD** – Injury on duty; **IV** – Intravenous; **MAP** – Mean arterial pressure; **mmHg** – Millimeters mercury; **ODD** – Oesophageal detection device; **OHCA** – Out of hospital cardiac arrest; **PCI** – Percutaneous coronary intervention; **PEA** – Pulseless electrical activity; **PEFR** – Peak expiratory flow rate; **POC** – Point of care; **ROSC** – Return of spontaneous circulation; **RSI** – Rapid sequence intubation; **SPC** – Statistical process control; **SpO2** – Capillary oxygen saturation; **STEMI** – ST elevation myocardial infarction; **TIA** – Transient Ischaemic attack; **TXA** – Tranexamic acid; **VF** – Ventricular fibrillation; **VT** – Ventricular tachycardia