

Pre-Hospital Sepsis Screening Tool

1

UNDER 5 YEARS	AGE 5-11 YEARS	AGE 12+ YEARS (ADULT)	PREGNANT (OR UP TO 6 WEEKS PP)
<p>START THIS CHART IF PATIENT LOOKS UNWELL, PARENTAL CONCERN, EWS \geq 5 OR ABNORMAL TEMPERATURE ($<36^{\circ}\text{C}$ OR $>38^{\circ}\text{C}$)</p> <p>Sepsis risk factors</p> <ul style="list-style-type: none"> Recent trauma/surgery/invasive procedure Impaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenic patient, asplenia) Indwelling lines/broken skin/indwelling devices Rural, remote or low socioeconomic status Re-presentation or delayed presentation to a health service Infants $<$ 3 months old 	<p>START THIS CHART IF PATIENT LOOKS UNWELL, PARENTAL CONCERN, EWS \geq 5 OR ABNORMAL TEMPERATURE ($<36^{\circ}\text{C}$ OR $>38^{\circ}\text{C}$)</p> <p>Sepsis risk factors</p> <ul style="list-style-type: none"> Recent trauma/surgery/invasive procedure Impaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenic patient, asplenia) Indwelling lines/broken skin/indwelling devices Rural, remote or low socioeconomic status Re-presentation or delayed presentation to a health service 	<p>START THIS CHART IF PATIENT LOOKS UNWELL OR EWS \geq 5</p> <p>Sepsis risk factors</p> <ul style="list-style-type: none"> Recent trauma/surgery/invasive procedure Impaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenic patient) Indwelling lines/IVDU/broken skin/indwelling devices Rural, remote or low socioeconomic status AGE $>$75 	<p>START THIS CHART IF PATIENT LOOKS UNWELL OR EWS \geq 5</p> <p>Sepsis risk factors</p> <ul style="list-style-type: none"> Recent trauma/surgery/invasive procedure Impaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenic patient) Indwelling lines/IVDU/broken skin/indwelling devices Rural, remote or low socioeconomic status



SEPSIS CPG

2

ANY OBVIOUS NON-INFECTIVE CAUSE FOR THE PATIENT'S PRESENTATION AND OBSERVATIONS? NO \downarrow YES \rightarrow

SEPSIS UNLIKELY

3

Sepsis red flags include:	Sepsis red flags include:	Sepsis red flags include:	Sepsis red flags include:
<ul style="list-style-type: none"> BSL \leq 3 mmol/L (note: <2.6 mmol/L for neonates) Doesn't wake when roused or won't stay awake Child looks unwell to healthcare professional Weak, high pitched or continuous cry Tachypnoea (see chart) Tachycardia (see chart) Bradycardia (see chart) Hypotension (see chart) SpO₂ \leq 88% on air or O₂ requirements $>$10 litres/ minute Non-blanching rash Lactate $>$4mmol/L (if available) 	<ul style="list-style-type: none"> BSL \leq3mmol/L Doesn't wake when roused or won't stay awake Objective evidence of new or altered mental state Child looks unwell to healthcare professional Tachypnoea \geq50 breaths/minute Tachycardia \geq170 beats/minute Bradycardia $<$60 beats/minute Hypotension (systolic BP $<$60 mmHg) SpO₂ \leq 88% on air or O₂ requirements \geq 10 litres/ minute Non-blanching rash Lactate $>$4mmol/L (if available) 	<ul style="list-style-type: none"> Objective evidence of new or altered mental state Systolic BP \leq90mmHg (or $>$40mmHg drop from normal) Heart rate \geq130 per minute Temperature \leq 35°C Respiratory rate \geq25 per minute Needs O₂ to keep SpO₂ \geq94% (88% in COPD) Non-blanching rash/mottled/ashen/cyanotic Not passed urine in 18 hrs (0.5mL/kg/hr if catheterised) Lactate \geq2 (if available) Recent chemotherapy 	<ul style="list-style-type: none"> Objective evidence of new or altered mental state Systolic BP \leq90mmHg (or $>$40mmHg drop from normal) Heart rate \geq130 per minute Temperature \leq 35°C Respiratory rate \geq25 per minute Needs O₂ to keep SpO₂ \geq94% (88% in COPD) Non-blanching rash/mottled/ashen/cyanotic Not passed urine in 18 hrs ($<$0.5mL/kg/hr if catheterised) Lactate \geq2 mmol/L (if available) note: lactate may be raised in and immediately after normal delivery



RED FLAG SEPSIS

1. Pre-notify ED
2. Follow RED EWS escalation advice
3. Communicate RED flag sepsis at handover

4

ANY RED FLAGS PRESENT? NO \downarrow YES \rightarrow

Sepsis amber flags include:	Sepsis amber flags include:	Sepsis amber flags include:	Sepsis amber flags include:
<ul style="list-style-type: none"> Family and/or clinician concern is continuing or increasing Not responding normally/no smile/reduced activity/very sleepy Unexplained pain, leg pain or cold extremities Tachypnoea (see chart) Tachycardia (see chart) Hypotension (see chart) SpO₂ \leq 91% on air or O₂ requirements \geq5 litres/ minute Capillary refill time \geq 3 seconds, mottled or cold extremities Lactate 2-4 mmol/L (if available) Nasal flaring Reduced urine output 	<ul style="list-style-type: none"> Family and/or clinician concern is continuing or increasing Behaving abnormally/not wanting to play/drowsy/confused Unexplained pain, leg pain or cold extremities Tachypnoea 45-49 breaths per minute Tachycardia 160-169 beats per minute Hypotension (systolic BP $<$70mmHg) SpO₂ \leq 91% on air or O₂ requirements \geq5 litres/ minute Capillary refill time \geq 3 seconds, mottled or cold extremities Lactate 2-4 mmol/L (if available) Reduced urine output ($<$1mL/kg/hr if catheterised) 	<ul style="list-style-type: none"> Relatives concerned about mental status Acute deterioration in functional ability Trauma/surgery/procedure in past 8 weeks Immunosuppressed Respiratory rate 21-24 per minute Systolic BP 91-100mmHg Heart rate 91-129 per minute or new dysrhythmia Temperature range between 35.1°C- 36°C or \geq 38.1°C Clinical signs of wound infection 	<p>If immunity impaired treat as red flag sepsis</p> <ul style="list-style-type: none"> Behavioural/mental status change Acute deterioration in functional ability Respiratory rate 21-24 per minute Systolic BP 91-100mmHg Heart rate 91-129 per minute or new dysrhythmia Had an invasive procedure in the past 6 weeks (e.g. Cervical cerclage, forceps delivery, miscarriage, termination) Temperature range between 35.1°C- 36°C or \geq38.1°C Has diabetes or gestational diabetes Close contact with GAS (Group A Streptococcus) Prolonged rupture of membranes Bleeding/wound infection Offensive vaginal discharge Non-reassuring CTG/foetal tachycardia $>$160



AMBER FLAG SEPSIS

1. Follow AMBER EWS escalation advice
2. Communicate AMBER flag sepsis at handover

5

ANY AMBER FLAGS PRESENT? NO \downarrow YES \rightarrow
<p>If no red or amber flags sepsis is unlikely. Transport to appropriate ED.</p>
<p>If no red or amber flags sepsis is unlikely. Routine care or consider other diagnosis.</p>