

Paediatric sepsis- Summary Clinical Guideline UHDB

Reference No: Reference no.: CH CLIN G126

Recognition of sepsis should be based on:

- > Systematic ABCDE approach with PEWS scoring.
- > Being aware and acting on the possible signs and symptoms with good history taking.
- Parental Concerns and Health Professionals' gut feelings should be taken seriously and may require an escalation for management as sepsis. 'COULD THIS BE SEPSIS!
- ➤ Use AoMRC clinical decision framework to support timely response for infection Statement_on_the_initial_antimicrobial_treatment_of_sepsis_V2_1022.pdf (aomrc.org.uk)

If concerned about sepsis or infection in a child

Complete the <u>UK sepsis screening tool</u> checklist.

Treat promptly as Sepsis 6 in any child likely to have an infection if:

- Child is very unwell.
- PEWS score ≥ 9 (unless another diagnosis is obvious e.g., acute severe viral wheeze or asthma)
- PEWS score is 5- 8 and/or significant parental concern.
- PEWS score is 5- 8 DO LACTATE if > 4 mmol/l

(Lactate 2-4 mmol/l should prompt detailed clinical assessment and may require further investigations and antibiotic treatment).

- Children with <u>risk factors</u> for severe infection e.g., < 3 months with unexplained fever, Immunosuppressed, Post-op, or patients with indwelling devices
- Normal PEWS doesn't exclude sepsis.
- Temperature does not contribute to the PEWS score.
- PEWS scores for RR has higher thresholds than APLS and other previous observation scales (POPS), clinical decision should be guided by RR trend and clinical judgement.

TREATMENT:

- First-line antibiotic choice for a child with Sepsis will be guided by the source of infection.
- Sepsis with unidentified focus use IV ceftriaxone 1st line unless clinically shocked in which case IV cefotaxime should be used (as per BNFC)

Abbreviations:

PEWS-Paediatric early warning score ,POPS-Paediatric observation priority score, AoMRC-Academy of medical royal colleges.

SEPSIS SCREENING TOOL ACUTE	ASSESSMENT - CHILD AGE <16
PATIENT DETAILS:	DATE: TIME: NAME: DESIGNATION: SIGNATURE:
ADDITIONAL FACTORS PROMPTING SCREENING Parent or carer concern Known (or risk of) immunosuppression	☐ Age less than one year ☐ Recent surgery/ trauma or indwelling lines USING LATEST VITAL SIGNS &
02 IS PEWS 9 OR ABOVE?	IS PEWS BETWEEN 5 AND 8?
OR IS PEWS BETWEEN 5 AND 8 AND LACTATE > 4 MMOL/L	OR IS THERE PERSISTING SIGNIFICANT PARENTAL CONCERN?
OR DOES THE CHILD LOOK EXTREMELY UNWELL TO A HEALTH PROFESSIONAL?	IF LACTATE > 4 MMOL/L ESCALATE TO RED FLAG SEPSIS
RED FLAG SEPSIS	SEND FULL SET OF BLOODS ENSURE SENIOR CLINICAL REVIEW (ST4+) WITHIN 30 MINUTES IF ANTIMICROBIALS ARE NEEDED, THESE SHOULD BE GIVEN AND A PLAN MADE FOR ESCALATION & SOURCE CONTROL WITHIN 3 HOURS
START PAEDIATRIC SEPSIS SIX	I have prescribed antimicrobials This patient does not require antimicrobials as: - I don't think this child has an infection - This child is already on appropriate antimicrobials - Other GRADE: DATE: TIME: SIGNATURE:





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SEPSIS SCREENING TOOL - T	HE SEPSIS SIX	AGE <16
PATIENT DETAILS:	DATE: NAME: DESIGNATION: SIGNATURE:	TIME:
COMPLETE ALL ACTION	ONS WITHIN O	ONE HOUR
NOT ALL PATIENTS WITH RED FLAGS WILL NEED MAKER MAY SEEK ALTERNATIVE DIAGNOSES/ DE	THE 'SEPSIS 6' URGENTLY. A SENIOR I	
O2 OXYGEN IF REQUIRED START IF 02 SATURATIONS LESS THAN 92% OR THE	RE IS EVIDENCE OF SHOCK	TIME
OBTAIN IV/IO ACCESS, BLOOD CULTURES (FULLY FILL AEROBIC BOTTLE URE'S, CRP AND CLOTTING LUMBAR PUNCTURE	FIRST!), BLOOD GLUCOSE, LACTATE,	FBC,
GIVE IV ANTIBIOTICS, MAXIMUM DOSE BROAD SPECTRUM THERAPY CONSIDER: LOCAL POLICY / ALLERGY STATUS / A EVALUATE NEED FOR IMAGING/ SPECIALIST REV. IF SOURCE AMENABLE TO DRAINAGE ENSURE AC	NTIVIRALS IEW	
O5 GIVE IV FLUIDS IF LACTATE 2-4 mmol/L GIVE FLUID BOLUS 10 ml LACTATE >4 mmol/L CALL PICU. (REPEAT FLUID		TIME
CONSIDER INOTROPIC CONSIDER INOTROPIC SUPPORT IF NORMAL PHYS FLUID (10 ml/kg in NEONATES), AND CALL PICU C	SIOLOGY IS NOT RESTORED AFTER ≥20 m	
RED FLAGS AFTER ONE HOUR -	ESCALATE TO CONS	SULTANT NOW
RECORD ADDITIONAL NOTES HERE:		

e.g. allergy status, arrival of specialist teams, de-escalation of care, delayed antimicrobial decision making, variance from Sepsis Six

SEPSIS TRUST

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