Patient Name:	l
Hospital number:	١
Date of birth:	۱

Paediatric Sepsis/Severe Sepsis Care Pathway



This pathway must be scanned and copied then filed in the notes and filled in as treatment progresses

Date pathway commenced:// Time pathway commenced:: Commenced by (name/grade):					
Step 1: SEPSIS confirmation by paediatrician (bleep 3111 on activation of pathway)	Step 2: Immediate actions to be commenced within 1 hour of definitive diagnosis	Step 3: SEVERE SEPSIS screening	Step 4 : Ongoing actions for all children with sepsis/severe sepsis		
Step 1a: Initial actions whilst awaiting paediatric review	DO THE 'SEPSIS 6' 1) Early Senior involvement TIME	Are any of the following present?	TARGETS 1) Capillary refill ≤ 2 seconds 2) Normal HR/BP for age		
A) Perform PEWS score:	(i.e. consultant informed)	Hypotension	3) No difference in quality between		
PEWS 4 or more put out fast bleep	2) Administer high flow TIME	Central capillary refill >3 seconds	central and peripheral pulses 4) Warm extremities		
or crash call and proceed to step 2	oxygen to keep saturations >94%	Diminshed peripheral pulses compared to central	5) Normal mental status 6) Urine output >1ml/kg/hour		
PEWS 3 or less: refer to paediatrics	3) IV/IO access:	Altered mental status	7) Serum lactate <2mmol/L 8) Normal blood glucose concentration		
for urgent assessment	a) BLOOD CULTURES	(not previously noted) Urine output <1ml/kg/hour			
B) Apply Ametop	Ideally before giving antibiotics	Lactate >2mmol/L	Actions 1) Repeat fluid bolus to achieve		
C) Obtain urine sample D) Check blood glucose & gas	b) blood glucose- treat if low with 2ml/kg 10% dextrose c) blood gas	Failure of physiological parameters to normalise after 40 ml/kg fluid	above targets -examine for crepitations and hepatomegaly, if present commence		
Paediatric registrar assessment should take place within <u>60 minutes</u> Repeat PEWS score every 30 minutes. If score deteriorates: fast bleep 3111	4) Initial fluid bolus given? 20ml/kg 0.9% saline IV over 5-10 minutes	If NONE of the above treat as sepsis and screen hourly for severe sepsis	inotropes 2) If normal physiological parameters not restored despite >40ml/kg fluids		
Step 1b: Paediatric registrar assessment:	5) IV/IO Antibiotic GIVEN (see chart on reverse)	If yes to ANY of the above, patient has SEVERE SEPSIS. Commence the following actions:	or signs of heart failure - Follow guidelines for severe sepsis - Begin peripheral inotropic support		
a) Sepsis unlikely: Exit pathway and manage as	6) Consider inotropic support early If normal physiological TIME	1) Inform Paediatric consultant if not already done so	until central venous access obtained - Obtain central venous access - Give inotropes via central line		
working differential diagnosis	parameters not restores after ≥40ml/kg fluids	2) Contact CATS if not already done so	Contacts		
b) Sepsis likely: Move to step 2 of this pathway and document time of diagnosis	Screen for severe sepsis (see step 3)	3) Ensure fluid bolus of at least 40ml/kg given	Paediatric Reg : blp 3111 Paediatric consultant: via switch Anaesthetist: blp 3305/fastbleep		
		4) If failure of physiological parameters to normalise after 40ml/kg fluid consider inotropes	CATS: 0800 085 0003 Microbiology: 5085/blp 3069		

Table 2: Antimicrobial therapy for paediatric sepsis of unknown origin

Clinical condition	Severe Sepsis of Unknown Origin (in children >3 months old) (NB excludes children with meningitis / meningo-ecphalitis & < 3 months old))					
General Treatment Points	compromise, suffi PICU. Always inform the The antibiotic guid For patients with a appropriate IV ant If suspected meni guideline. DO NO If suspected or co children' guideline Always take blood If the child has s it can precipitate Once the need for ambulatory patien	 Severe sepsis treatment is indicated when a child with evidence of any bacterial infection shows signs of cardiovascular compromise, sufficient to warrant treatment including (but not limited to) >1x 20ml/Kg fluid boluses, inotropes, transfer to PICU. Always inform the on-call paediatric consultant if treating a child with presumed bacterial sepsis The antibiotic guidance in this section is intended only for cases where there is no clear primary focus of infection. For patients with a clear primary focus, please see the relevant section of the paediatrics antibiotic guideline, for the appropriate IV antibiotics of choice. If suspected meningitis see separate 'Bacterial Meningitis in Children' guideline on intranet & meningitis section of this guideline. DO NOT use antibiotics below, treat as per meningitis guidance If suspected or confirmed meningococcal septicaemia, see separate 'Early management of meningococcal disease in children' guideline on intranet. Always take blood cultures before starting antibiotics. If the child has signs of sepsis related shock and might require calcium infusions then do not use ceftriaxone as it can precipitate out if it is co-administered with iv calcium. Once the need for calcium infusions has passed the child can be converted to OD ceftriaxone and managed as an ambulatory patient if otherwise clinically well. If known MRSA carrier - see point 12 in general treatment advice (page 2) 				
IV	First Line Penicillin Allergic	Meropenem 1month -12 years & <50 Kg 20 mg/kg TDS 1 month -12 years & >50 Kg 1g TDS >12 years 1g TDS NB in absence of renal impairment, consider increasing to QDS (D/W Microbiology first) Ciprofloxacin	Antibiotic administration 500mg & 1g vials- add WFI as per instruction leaflet as brand displacements vary. Dose 20mgs/kgs-slow bolus 40mgs/kg-infusion over 30mins Cipro-Ready diluted -Infuse			
	(Discuss with on-call Microbiologist as well	Ciprolloxacin < 1 month 10 mg/kg BD >1 month 10 mg/kg TDS (max 400 mg) + Gentamicin 7 mg/kg od	over 60 mins Gent- dilute with N/S or G to 20-50mls infuse over 30mins			