Fever Pathway

Clinical Assessment / Management Tool for Children

Management - Combined Acute and Primary Care

Patient presents with or has a history of fever Temp >38º



Is the child older or younger than 3 months of age?

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Table 1								
Clinical Findings	Green - Iow risk	n - Iow risk Amber - intermediate risk				Red - high risk		
Colour	Normal colour of skin, lips and tongue		or reported by parent/carer	Pale/mottled/ashen/blue				
Activity	 Responds normally to social cues Content / smiles Stays awake or awakens quickly Strong normal cry / not crying 	• Wal • Dec • No s	luced response to social cues kes only with prolonged stimulation reased activity smile r feeding in infants		 No response to social cues Unable to rouse or if roused Weak, high pitched or contir Appears ill to a healthcare p 	nuous cry		
Respiratory	 None of the amber or red symptoms or signs 	 Nasal flaring Tachypnoea: RR 40-50 if 1-5 years; RR 25-30 if 6-11 years; RR 20-25 if >=12 years Oxygen saturation ≤ 95% in air Crackles 			 Grunting Tachypnoea: RR >60 breaths/min if aged RR >30 if 6-11 years; RR >25 if >=12 years Moderate or severe chest indrawing 			
Circulation and Hydration	Normal skin and eyes	1 - 2 HR • Dry • Rec	hycardia: HR > 160 beats/min if age < 1 yr; HR > 150 beats/min if age 2 years; HR > 140 beats/min if age 3 - 5 years; HR> 120 beats/min if 6-11; >100 beats/min if age >12 years mucous membranes luced urine output tral refill 2-3 seconds	years;	 Reduced skin turgor Capillary refill >3 seconds 			
Other	None of the amber or red symptoms or signs	• Swe • Non • A ne • Age • Add	er for ≥ 5 days elling of a limb or joint -weight bearing / not using an extremity ew lump ≥ 2 cm 3-6 months temp ≥39°C (102.2°F) with no clear focus of infection itional parental/carer support required? ent return from malaria endemic area in preceding 3 months		 Bulging fontanelle Neck stiffness Focal seizures Sustained tachycardia Non-blanching rash Focal neurological signs Bile-stained vomiting 	 Age ((100. of ag menii withir clinic Limb 		
MHS NHS								
The series of th	Green Action		Amber Action					
	 Perform: Assess for focus of infection - If no focus in child under 5 years of age, consider clean catch urine specimen to evaluate for urinary tract infection. 		If no source of fever in child under 5 years of age, obtain clean catch urine specimen to evaluate for urinary tract infection. Seek advice/review from Paediatrician, particularly if clinical concern. Agree plan with parents.	R		mmediately t aediatrician		

Provide advice to send home

Provide the parent/carer with fever parent advice sheet and advise on signs, symptoms and changes signpost the parent/carer where to go, should things change.

Management Plan

If clear source of fever and child appears well:

- Provide the parent/carer with fever parent advice sheet and advise on signs, symptoms and changes - signpost the parent/carer where to go, should things change
- Arrange any required follow up or review
- Send any relevant documentation to the provider of follow up or review



How is 3



This guidance has been reviewed and adapted by healthcare professionals across SWL with consent from the Hampshire development groups.

This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with the patient and / or carer.



Refer immediately to emergency care by 999 Alert Paediatrician

Stay with child whilst waiting and prepare documentation



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Table 2

	Guide weight (kg)	RR At rest Breaths per minute 5 th - 95 th centile	HR Beats per minute 5 ^m -95 th centile	BP systolic			
Age				5 ^m centile	50 th centile	95 th centile	
Birth	3.5	25-50	120-170	65-75	80-90	105	
1 month	4	25-50	120-170	65-75	80-90	105	
3 months	5	25-45	115-160	65-75	80-90	105	
6 months	8	20-40	110-160	65-75	80-90	105	
12 months	10	20-40	110-160	70-75	85-95	105	
2 years	12	20-30	100-150	70-80	85-100	110	
3 years	14	20-30	90-140	70-80	85-100	110	
4 years	16	20-30	80-135	80-90	85-100	110	
5 years	18	20-30	80-135	80-90	90-110	110-120	
6 years	20	20-30	80-130	80-90	90-110	110-120	
7 years	23	20-30	80-130	80-90	90-110	110-120	
8 years	24	15-25	70-120	80-90	90-110	110-120	
9 years	28	15-25	70-120	80-90	90-110	110-120	
10 years	30	15-25	70-120	80-90	90-110	110-120	
11 years	35	15-25	70-120	80-90	90-110	110-120	
12 years	40	12-24	65-115	90-105	100-120	125-140	
14 years	50	12-24	60-110	90-105	100-120	125-140	
Adult	70	12-24	60-110	90-105	100-120	125-140	

APLS 7th Edition. John Wiley & Sons Ltd Dec 2023

Diagnoses to be considered	Symptoms and signs in conj	unction with fever		
Meningococcal	Non blanching rash (this may not be the first sign), particularly with one or more of the following:			
septicaemia	•An ill-looking child •Lesions larger than 2mm in di ameter (purpura)	•CRT ≥3 secs •Neck stiffness •Limb pain₄		
Meningitis [,]	 Neck stiffness Bulging fontanelle 	•Decreased level of consciousness •Convulsive status epilepticus •Cold extremities		
Herpes simplex encephalitis	 Focal neurological signs Focal seizures Decreased level of consciousness 			
Pneumonia	Tachypnoea, measured as: •0 – 5 mths - RR >60 breaths/min •6 – 12 mths - RR >50 breaths/min •>12 mths - RR >40 breaths/min	•Crackles in the chest •Nasal flaring •Chest recession •Cyanosis •Oxygen saturation ≤95%		
Urinary tract infection (in children aged older than 3 months) ²	•Vomiting •Abdominal pain or tenderness •Lethargy •Urinary frequency or dysuria •Irritability •Offensive urine, haematuria •Poor feeding			
Septic arthritis/ osteomyelitis	 Swelling of a limb or joint Non-weight bearing Not using an extremity 			
	Fever lasting longer than 5 days following:	and at least 4 of the		
Kawasaki disease³	 Bilateral conjunctival injection Change in upper respiratory tract mucous membranes (e.g. injected pharynx, dry cracked lips or strawberry tongue) 	•Change in the peripheral extremities (e.g. oedema, erythema or desquamation) •Polymorphous rash •Cervical lymphadenopathy		

1. Classical sign (neck stiffness, bulging fontanelle, high pitched cry) are often absent in infants with bacterial meningitis 2. Urinary tract infection should be considered in any child aged younger than 3 months with fever (See urinary tract infection in Children, NICE clinical guideline CG054, August 2007) 3.Note: in rare cases, incomplete / atypical Kawasaki disease may be diagnosed with fewer features. 4. Thompson MJ, Ninis N, Perera R, et al. Clinical recognition of meningococcal disease in children and adolescents. Lancet. 2006; 367 (9508): 397-403.

Glossary of Terms				
Airways, Breathing, Circulation				
Advanced Paediatric Life Support				
Alert Voice Pain Unresponsive				
Blood Pressure				
Continuous Professional Development				
Capillary Refill Time				
Hospital Emergency Department				
Glasgow Coma Scale				
Heart Rate				
Mechanism of Injury				
Paediatric Early Warning Score				
Respiratory Rate				
White Blood Cell Count				

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