### **Fever Pathway**

Table 1

**Clinical Assessment / Management Tool for Children** 

#### **Management - Primary Care and Community Settings**

Patient presents with or has a history of fever Temp ≥38<sup>o</sup>



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

<u>0</u>

Clinical Findings	Green - Iow risk	Amber - intermediate risk	Red - high risk	
Colour	Normal colour of skin, lips and tongue	Pallor reported by parent/carer	Pale/mottled/ashen/blue	
Activity	<ul> <li>Responds normally to social cues</li> <li>Content / smiles</li> <li>Stays awake or awakens quickly</li> <li>Strong normal cry / not crying</li> </ul>	<ul> <li>Reduced response to social cues</li> <li>Wakes only with prolonged stimulation</li> <li>Decreased activity</li> <li>No smile</li> <li>Poor feeding in infants</li> </ul>	<ul> <li>No response to social cue</li> <li>Unable to rouse or if rouse</li> <li>Weak, high pitched or con</li> <li>Appears ill to a healthcare</li> </ul>	ed does not sta tinuous cry
Respiratory	None of the amber or red symptoms     or signs	<ul> <li>Nasal flaring</li> <li>Tachypnoea: RR 40-50 if 1-5 years; RR 25-30 if 6-11 years; RR 20-25 if &gt;=12 years</li> <li>Oxygen saturation ≤ 95% in air</li> <li>Crackles</li> </ul>	Grunting     Tachypnoea: RR >60 breaths/min if age     RR >30 if 6-11 years; RR >25 if >=12 ye     Moderate or severe chest indrawing	
Circulation and Hydration	Normal skin and eyes	<ul> <li>Tachycardia: HR &gt; 160 beats/min if age &lt; 1 yr; HR &gt; 150 beats/min if age 1 - 2 years; HR &gt; 140 beats/min if age 3 - 5 years; HR&gt; 120 beats/min if 6-11years; HR &gt;100 beats/min if age &gt;12 years</li> <li>Dry mucous membranes</li> <li>Reduced urine output</li> <li>Central refill 2-3 seconds</li> </ul>	Reduced skin turgor     Capillary refill >3 seconds	
Other	None of the amber or red symptoms     or signs	<ul> <li>Fever for ≥ 5 days</li> <li>Swelling of a limb or joint</li> <li>Non-weight bearing / not using an extremity</li> <li>A new lump ≥ 2 cm</li> <li>Age 3-6 months temp ≥39°C (102.2°F) with no clear focus of infection</li> <li>Additional parental/carer support required?</li> <li>Recent return from malaria endemic area in preceding 3 months</li> </ul>	<ul> <li>Bulging fontanelle</li> <li>Neck stiffness</li> <li>Focal seizures</li> <li>Sustained tachycardia</li> <li>Non-blanching rash</li> <li>Focal neurological signs</li> <li>Bile-stained vomiting</li> </ul>	Age 0•3 mor (100.4°F) - n month of age meningitis. If within 48 hor well, conside Limb pain



This writing of this guideline involved extensive consultation with healthcare professionals in Frimley, Wessex and Wexham

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 Younger tay awake ed <12 months; RR >50 if 1-5 years; /ears onths with axillary temp $\geq$ 38°C note children under 1 First Version May 2021 Review Date: May 2023 age at highest risk of sepsis/ If 1-3 months of age with fever ours of Men B vaccine and clinically dersafety netting **Urgent Action** Refer immediately to emergency care - consider 999 Commence relevant treatment to stabilise child for transfer **Hospital Emergency Department / Paediatric Unit** CS51313

# Fever Pathway Clinical Assessment / Management Tool for Children

### **Management - Primary Care and Community Settings**

#### Table 2

Normal Paediatric Values:						
(APLS⁺)	Respiratory Rate at rest: [b/min]	Heart Rate [bpm]	Systolic Blood Pressure [mmHg]			
< 1 year	30 - 40	110 - 160	70 - 90			
1-2 years	25 - 35	100 - 150	80 - 95			
> 2-5 years	25 - 30	95 - 140	80 - 100			
5-12 years	20 - 25	80 - 120	90 - 110			
>12 years	15 - 20	60 - 100	100 - 120			

t Advanced Paediatric Life Support The Practical Approach Fifth Edition Advanced Life Support Group Edited by Martin Samuels; Susar Wieteska Wiley-Blackwell / 2011 BMJ Books.

Glossary of Terms				
ABC	Airways, Breathing, Circulation			
APLS	Advanced Paediatric Life Support			
AVPU	Alert Voice Pain Unresponsive			
B/P	Blood Pressure			
CPD	Continuous Professional Development			
CRT	Capillary Refill Time			
ED	Hospital Emergency Department			
GCS	Glasgow Coma Scale			
HR	Heart Rate			
ΜΟΙ	Mechanism of Injury			
PEWS	Paediatric Early Warning Score			
RR	Respiratory Rate			
WBC	White Blood Cell Count			

#### Symptoms and Signs of Specific Disease

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

Classical sign (neck stiffness, bulging fontanelle, high pitched cry) are often absent in infants with bacterial meningitis

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)

Note: in rare cases, incomplete / atypical Kawasaki disease may be diagnosed with fewer features.

Thompson MJ, Ninis N, Perera R, et al. Clinical recognition of meningococcal disease in children and adolescents. Lancet. 2006; 367 (9508): 397-403.

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