Clinical Assessment / Management Tool

December 2016 Kent, Surrey & Sussex Version



Safety Collaborative

Management - Primary Care and Community Settings

Patient presents with or has a history of fever (see definition and initial assessment guidance) [see Table 3 overleaf] (Consider additional vulnerability to sepsis) [see Table 4 overleaf] and AVPU [see Table 5 overleaf]

Do the symptoms and/or signs suggest an immediately life threatening (high risk) illness? or any risk of neutropenic sepsis?

Yes

- Refer immediately to emergency care by 999
- Alert Paediatric Emergency Service*
- Stay with child whilst waiting and prepare documentation

Respiratory Rate at rest: [b/min]

Normal Paediatric Values

35

25 -

Practice recommendation http://bit.ly/1DPXI2b

Record your findings.
GMC Best Practice recomm

Table 1			
Clinical Findings	Green - low 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	Responds normally to social cues Content / smiles Stays awake or awakens quickly Strong normal cry / not crying	 Reduced response to social cues Wakes only with prolonged stimulation Decreased activity No smile 	 No response to social cues Unable to rouse or if roused does not stay awake Weak, high pitched or continuous cry Appears ill to a healthcare professional
Respiratory Rate Measured at rest for 30 seconds	None of the amber or red symptoms or signs	 Nasal flaring Tachypnoea: - Age < 1 yr RR 50 - 59 breaths/min Age 1 - 2 yr RR 40 - 49 breaths/min Age 3 - 4 yr RR 30 - 39 breaths/min Oxygen saturation ≤ 95% in air Crackles 	• Grunting • Tachypnoea: - Age < 1 yr RR ≥ 60 breaths/min - Age 1 - 2 yr RR ≥ 50 breaths/min - Age 3 - 4 yr RR ≥ 40 breaths/min
Circulation and Hydration	Normal skin and eyes Moist mucous membranes Normal feeding - Tolerating 75% of fluid	• Tachypnoea: - Age < 1 yr HR 150 - 159 beats/min - Age 1 - 2 yr HR 140 - 149 beats/min - Age 3 - 4 yr HR 130 - 139 beats/min • Dry mucous membranes • Poor feeding in infants • 50 - 75% fluid intake over 3 - 4 feeds • CRT ≥ 3 seconds	 Sustained Tachycardia - Age < 1 yr HR ≥ 160 beats/min - Age 1 - 2 yr HR ≥ 150 beats/min - Age 3 - 4 yr HR ≥ 140 beats/min Hypotension • <50% fluid intake over 2 - 3 feeds / 12 hours or appears dehydrated Reduced skin turgor • no urine output/dry nappies for > 18 hours
Other	None of the amber or red symptoms or signs	 Age 3-6 months temp ≥39°C (102.2°F) Fever for ≥ 5 days A new lump ≥ 2 cm Swelling of a limb or joint Rigors 	 Age 0-3 months, temp ≥ 38°C (100.4°F) Bulging fontanelle Neck stiffness Status epilepticus Focal neurological signs

Green Action

Perform:

 Assess for focus of infection - If no focus, consider clean catch urine specimen and evaluate for Urinary Tract Infection. (www.nice.org.uk/CG054fullquideline)

Provide advice to send home

Provide appropriate and clear guidance to the parent / carer and refer them to the patient advice sheet. Confirm they are comfortable with the decisions / advice given and then think "Safeguarding" before sending home.

*Please see overleaf for telephone numbers

Amber Action

Advice from Paediatrician-On-Call* should be sought and/or a clear management plan agreed with parents.

Non-weight bearing /

not using an extremity

Management Plan

· Septicaemia maybe associated

with low temperature < 36°C

- Provide the parent/carer with a safety net: use the patient advice sheet and advise on signs and symptoms and changes and signpost as to 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

Urgent Action

Refer immediately to emergency care by 999

Bile-stained vomiting

Alert Paediatric Emergency Service following local hospital referral pathway

Commence relevant treatment to stabilise child for transfer

Send relevant documentation

Focal seizures

Non-blanching rash

Hospital Emergency Department / Paediatric Unit

Advanced Paediatric Life Support The Practical Approach Fifth Edition dvanced Life Support Group Edited by Martin Samuels; Susan Wietesk viley-Blackwell / 2011 BMJ Books. 1-2 years

This guidance is written in the following context:





What is a fever (Definition)?

NICE CG160 Guidance states: In children, a temperature of over 37.5°C is a fever. Reported parental perception of a fever should be considered valid and taken seriously by healthcare professionals.

Assessment of a child with sepsis

- When a child presents with signs or symptoms of infection:

Table 3 - Initial Assessment Guidance

Child presents with signs and/or symptoms of infection

- Think sepsis, even if they do not have a high temperature
- Be aware that children with sepsis may have non-specific, non-localising presentations
- Pay particular attention to concerns expressed by the child and family/carer
- Take particular care in the assessment of children, who might have sepsis, who are unable, or their parent/carer is unable, to give a good history

Table 4

Consider additional vulnerability to sepsis:

- the very young (<1yr)
- non-immunised
- recent (<6 weeks) trauma or surgery or invasive procedure
- Impaired immunity due to illness or drugs
- Indwelling lines/catheters, any breach of skin integrity e.g. any cuts, burns, blisters or skin infections.

If at risk of neutropenic sepsis - refer to secondary care

The assessment of a child with fever should include measurement of Temperature, Heart Rate (HR), Respiratory Rate (RR) at rest and Oxygen saturations & Blood Pressure where available.

Table 5			
Status		Behaviour Assessment	
A	ALERT	Child is active and responds appropriately to clinician and other external stimuli. [GCS equivalent score 15]	
V	VOICE	Responds only when his or her name is called by clinician.	
P	PAIN	Responds only when painful stimuli is received such as pinching the nail bed.	
U	UNRESPONSIVE	No response at all. [GCS equivalent score 3]	

Level of Consciousness Assessment "AVPU"

The AVPU scale is a system for measuring and recording a patient's responsiveness in order to indicate their level of consciousness. It is a simplification of the Glasgow Coma Scale, using three measures to assess a patient's response: eyes, voice, and motor skills. The AVPU scale should be assessed using these three identifiable traits, looking for the best response for each. It has four possible outcomes for recording and the clinician should always work from best (A) to worst (U) to avoid unnecessary tests on patients who are clearly conscious. On the other hand, it should not be used for long-term follow up of neurological status.

Glossary of Terms and Abbreviations

CPD Continuous Professional DevelopmentHR Heart Rate

CRT Capillary Refill Time
RR Respiratory Rate

ED Hospital Emergency Department

Where can I learn more about paediatric assessment?

We also recommend signing up to the online and interactive learning tool **Spotting the Sick Child**. It is free of charge. It was commissioned by the Department of Health to support health professionals in the assessment of the acutely sick child. It is also CPD certified.

www.spottingthesickchild.com



*GP / Clinician Priority Phonelines / Contact Numbers at Local Hospitals

Surrey and Sussex Area Hospitals

Ashford and St Peter's Hospital NHS Foundation Trust, Chertsey 01932 872000

Brighton and Sussex University Hospitals NHS Trust Royal Alexandra Hospital, Brighton 01273 523230

East Sussex Healthcare NHS Trust Conquest Hospital, Hastings 01424 755255 Eastbourne District General Hospital 01323 417400

Frimley Park Hospital NHS Foundation Trust, Camberley 01276 604604 Bleep 100

Royal Surrey County Hospital NHS Foundation Trust, Guildford 01483 571122

Surrey and Sussex Healthcare NHS Trust East Surrey Hospital, Redhill **01737 231807**

Western Sussex Hospitals NHS Trust St Richards Hospital, Chichester 01243 536180/1 Worthing Hospital 01903 285060

Kent and Medway Area Hospitals

Dartford and Gravesham NHS Trust

Darent Valley Hospital / Queen Marys Hospital Sidcup / Erith and District Hospital

01322 428100 Bleep 316 (same number applies to both hospital sites)

East Kent Hospitals NHS Trust

Queen Elizabeth The Queen Mother Hospital, Margate / William Harvey Hospital, Ashford 01227 783190 (same number applies to both hospital sites)

Maidstone and Tonbridge Wells NHS Trust 01622 723011

Medway Maritime Hospital, Gillingham **01634 825000**

Dear Colleague,

We are delighted to present you with this Fever Pathway Clinical Assessment / Management Tool for Children Younger than 5 years – in Primary Care and Community Settings.

The local clinical groups who played such an important role in creating these tools, starting from 2010, have included representatives from acute, community and primary care as well as parents, education and social care. In particular we would also like to thank Wessex SCN and Paediatrics and Emergency Medicine colleagues for their support in finalising these versions for circulation.

To feedback or for further information including how to obtain more copies (Please Quote Ref: **F2**) of this document we have one mailbox for these queries on behalf of the South East Clinical Networks area (Kent, Surrey and Sussex).

 $Please\ email:\ \underline{CWSCCG.cypSECpathways@nhs.net}$

Yours sincerely

The Network

