

# The Big 6

Most common conditions children present with for urgent care.

- ❖ Bronchiolitis/Croup
- ❖ Fever/Sepsis
- ❖ Gastroenteritis
- ❖ Head injury
- ❖ Wheezy child/Asthma
- ❖ Abdominal pain



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# The Big 6

Dear Colleague

The Shropshire Children's Commissioner along with clinical representatives from acute, community and primary care, are all working towards three main objectives:

- ⌘ To promote evidence-based assessment and management of unwell children & young people for the most common conditions when accessing local NHS services in an emergency or urgent scenario;
- ⌘ To build consistency across Shropshire, so all healthcare professionals understand the pathway and can assess, manage and support children, young people and their families during the episode to the same high standards regardless of where they present;
- ⌘ To support local healthcare professionals to share learning and expertise across organisations in order to drive continuous development of high quality urgent care pathways for children & young people.

Shropshire Clinical Commissioning Group are keen to promote the use of the assessment tools included in this booklet for the six most common conditions/symptoms that can cause children and young people to present for emergency and urgent care. These six conditions/symptoms are

- ⌘ Bronchiolitis/croup
- ⌘ Fever/Sepsis
- ⌘ Gastroenteritis
- ⌘ Head injury
- ⌘ Wheezy child/Asthma
- ⌘ Abdominal Pain.

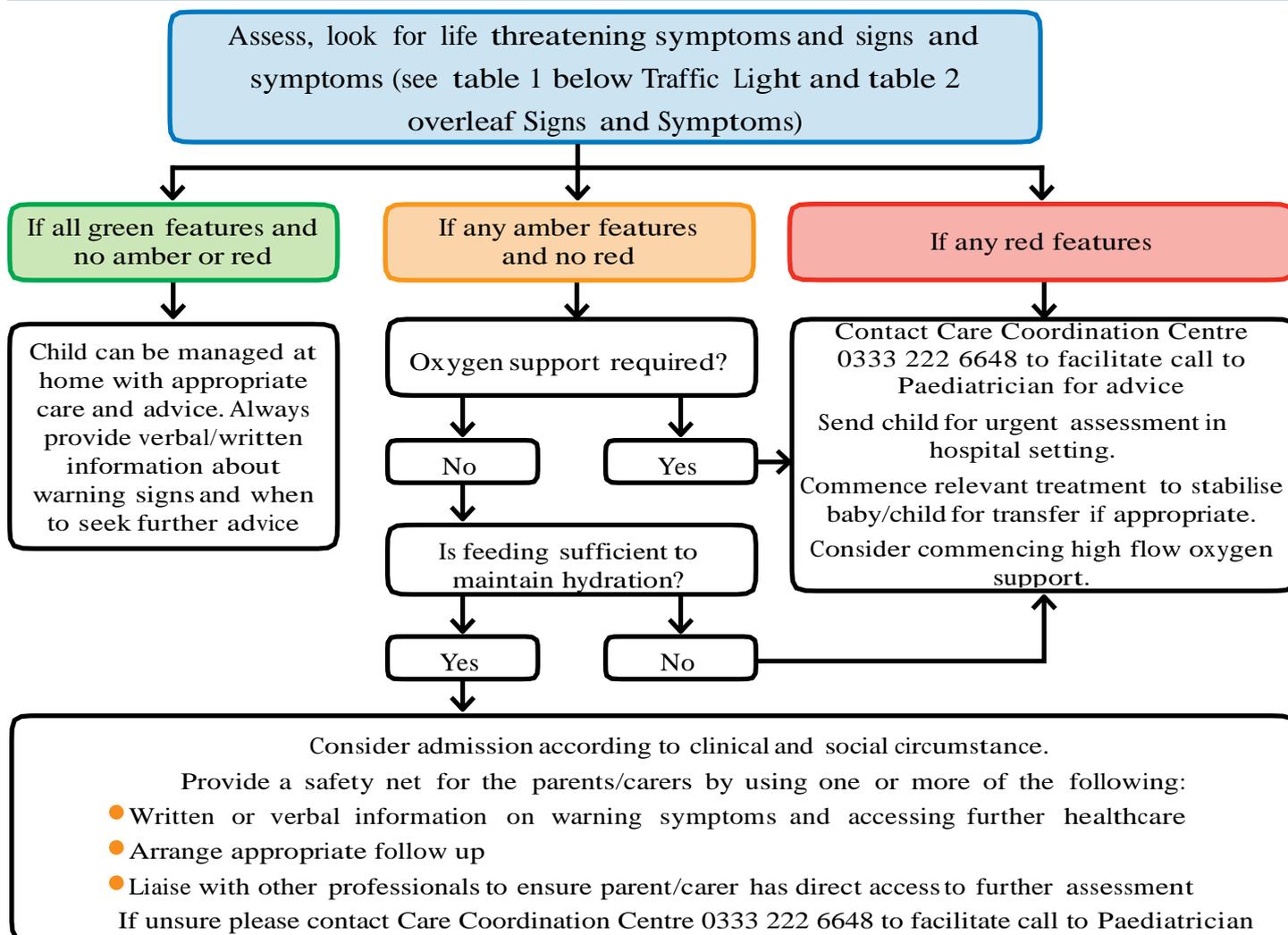
These assessment tools have been developed using both national guidance such as NICE and SIGN publications, along-side local policies and protocols, and have been subject to clinical scrutiny. Whilst it is hoped that all healthcare professionals who work with children and young people along this pathway will acknowledge and embed the use of this guidance, it must be stressed that the guidance does not override the individual responsibility of the healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with them.

We hope these tools support you and your colleagues to provide ever improving high quality care for children and young people on the urgent and emergency care pathway.

Yours sincerely

# Clinical Assessment Tool

## Babies/Children under 2 years with Suspected Bronchiolitis



**Table 1 Traffic light system for identifying severity of illness**

	Green – low risk	Amber – Intermediate risk	Red – high risk
<b>Behaviour</b>	<ul style="list-style-type: none"> <li>Alert</li> <li>Normal</li> </ul>	<ul style="list-style-type: none"> <li>Irritable</li> <li>Not responding normally to social cues</li> <li>Decreased activity</li> <li>No smile</li> </ul>	<ul style="list-style-type: none"> <li>Unable to rouse</li> <li>Wakes only with prolonged stimulation</li> <li>No response to social cues</li> <li>Weak, high pitched or continuous cry</li> <li>Appears ill to a healthcare professional</li> </ul>
<b>Circulation</b>	CRT < 2 secs	CRT 2 - 3 secs	CRT over 3 secs
<b>Skin</b>	Normal colour skin, lips & tongue moist mucous membranes	Pale/mottled Pallor colour reported by parent/carer cool peripheries	Pale/Mottled/Ashen blue Cyanotic lips and tongue
<b>Respiratory Rate</b>	Under 12mths <50 breaths/minute Over 12 mths <40 breaths/minute No respiratory distress	<12 mths 50-60 breaths/minute >12 months 40-60 breaths/minute	All ages > 60 breaths/minute
<b>SATS in air</b>	95% or above	92 - 94%	<92%
<b>Chest Recession</b>	None	Moderate	Severe
<b>Nasal Flaring</b>	Absent	May be present	Present
<b>Grunting</b>	Absent	Absent	Present
<b>Feeding Hydration</b>	Normal – no vomiting	50-75% fluid intake over 3-4 feeds +/- vomiting. Reduced urine output	<50% fluid intake over 2-3 feeds +/- vomiting. Significantly reduced urine output.
<b>Apnoeas</b>	Absent	Absent	Present*

CRT: Capillary refill time \*Apnoea – for 10-15 secs or shorter if accompanied by a sudden decrease in saturations/central cyanosis or bradycardia  
SATS: Saturation in air

## Clinical Assessment Tool

### Babies/Children under 2 years with Suspected Bronchiolitis

Healthcare professionals should be aware of the increased need for hospital admission in infants with the following:

- Pre existing lung disease, congenital heart disease, neuromuscular weakness, immune-incompetence
- Age <6 weeks (corrected)
- Prematurity
- Family anxiety
- Re-attendance
- Duration of illness is less than 3 days and Amber – may need to admit

#### Table 2 – Signs and Symptoms can include:

- |                            |                                   |
|----------------------------|-----------------------------------|
| • Rhinorrhoea (Runny nose) | • Respiratory distress            |
| • Cough                    | • Apnoea                          |
| • Poor Feeding             | • Inspiratory crackles +/- wheeze |
| • Vomiting                 | • Cyanosis                        |
| • Pyrexia                  |                                   |

When you feel a GP review in a specific time period is clinically appropriate but that falls outside of the 'in hours' GP service please advise your patient/family to call NHS 111 (at an agreed time interval / level of deterioration – depending on your concerns) and advise that there is a 'predetermined plan to speak with an Out of Hours GP'. Please provide your patient / family with a letter detailing your clinical findings and concerns to help the Out of Hours GP assessment.

#### This guidance is written in the following context

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively \*SIGN, EBM data and NHS evidence. 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 guardian or carer.

# Bronchiolitis Advice Sheet – Babies/Children under 2 years

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child?



Red

- Blue lips
- Unresponsive and very irritable
- Finding it difficult to breathe
- Pauses in breathing or irregular breathing pattern

**You need urgent help**  
please phone 999 or go  
to the nearest Accident  
and Emergency  
Department



Amber

- Decreased feeding
- Passing less urine than normal
- Baby/child's health gets worse or you are worried
- If your baby/child is vomiting
- Your baby/child's temperature is above 39°C

**You need to contact a  
doctor or nurse today**  
please ring your GP  
surgery or call NHS 111  
– dial 111



Green

- If none of the above factors are present

**Self Care**  
Using the advice  
overleaf you can  
provide the care your  
child needs at home

## Some useful phone numbers and information



**GP Surgery**  
(make a note of  
number here)

**NHS 111**

**dial 111**

available 24 hrs –  
7 days a week

Shropshire Walk-in Centre  
Located next to A&E at  
Royal Shrewsbury Hospital  
Open from 8am to 8pm,  
7 days a week including bank holidays

**For online advice: NHS Choices [www.nhs.uk](http://www.nhs.uk) (available 24 hrs – 7 days a week)**

If you need language support or translation please inform the member of staff to whom you are speaking.

For more copies of this document, please email; [shrccg.communicationsteam@nhs.net](mailto:shrccg.communicationsteam@nhs.net)

Or visit Shropshire CCG Website <http://www.shropshireccg.nhs.uk/health-advice/self-care/>

# Bronchiolitis Advice Sheet – Babies/Children under 2 years

## What is Bronchiolitis?

Bronchiolitis is an infectious disease when the tiniest airways in your baby/child's lungs become swollen. This can make it more difficult for your baby/child to breathe. Usually, bronchiolitis is caused by a virus. It is common in winter months and usually only causes mild cold like symptoms. Most babies/children get better on their own. Some babies/children, especially very young ones, can have difficulty with breathing or feeding and may need to go to hospital.

## What are the symptoms?

- ⌘ Your baby/child may have a runny nose and sometimes a temperature and a cough. After a few days your baby/child's cough may become worse.
- ⌘ Your baby/child's breathing may be faster than normal and it may become noisy. He or she may need to make more effort to breathe.
- ⌘ Sometimes, in the very young babies, Bronchiolitis may cause them to have brief pauses in their breathing. If you are concerned see the amber box overleaf.
- ⌘ As breathing becomes more difficult, your baby may not be able to take the usual amount of milk by breast or bottle.
- ⌘ You may notice fewer wet nappies than usual.
- ⌘ Your baby/child may vomit after feeding and become irritable.

## How can I help my baby?

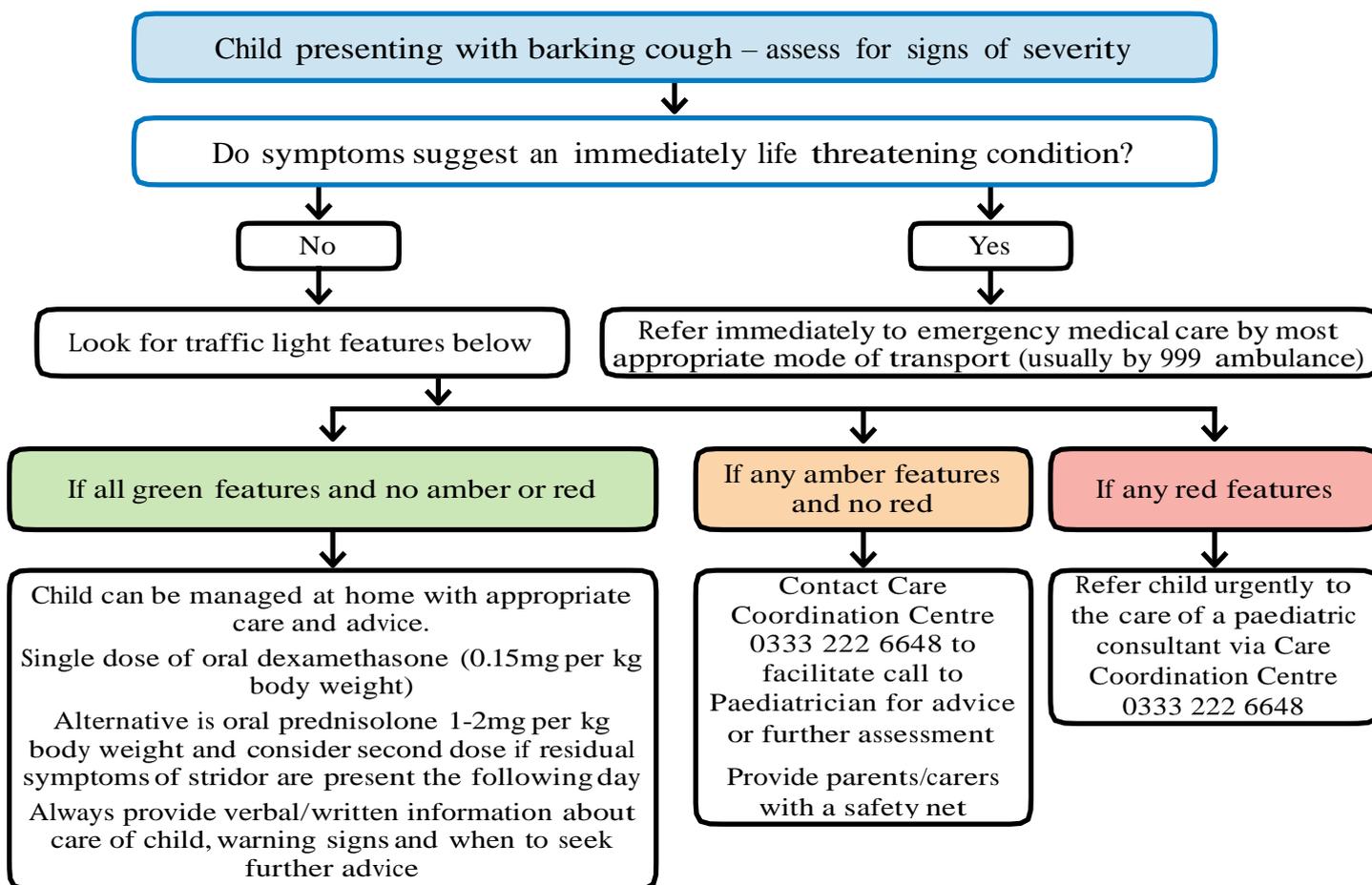
- ⌘ If your baby/child is not feeding as normal offer feeds little and often.
- ⌘ If your baby/child has a fever, you can give him or her paracetamol in the recommended doses. If your child is older than 6 months old you may also give Ibuprofen.
- ⌘ If your baby/child is already taking medicines or inhalers, you should carry on using these. If you find it difficult to get your baby/child to take them, ask your doctor for advice.
- ⌘ Bronchiolitis is caused by a virus so antibiotics won't help.
- ⌘ Make sure your baby/child is not exposed to tobacco smoke. Passive smoking can seriously damage your baby/child's health. It makes breathing problems like bronchiolitis worse.
- ⌘ Remember smoke remains on your clothes even if you smoke outside.

## How long does Bronchiolitis last?

- ⌘ Most babies/children with bronchiolitis get better within about two weeks.
- ⌘ Your baby/child can go back to nursery or day care as soon as he or she is well enough (that is feeding normally and with no difficulty in breathing).
- ⌘ There is usually no need to see your doctor if your baby/child is recovering well. But if you are worried about your baby/child's progress, contact NHS 111 or discuss this with your doctor.

# Clinical Assessment Tool

## Suspected Croup in child 3 months – 6 years



	Green	Amber	Red
Colour	Normal	–	Pale Lethargy
Activity	Child alert	Quieter than normal	Distress/agitation
Respiratory	Respiratory rate ⌘ Under 12 months <50 breaths/minute ⌘ Over 12 months <40 breaths/minute Sats 95% or above	Respiratory rate ⌘ Under 12 months 50-60 breaths/minute ⌘ Over 12 months 40-60 breaths/minute Sats 92 - 94%	Respiratory rate >60 (all ages) Sats <92%
Cough	Occasional barking cough No stridor	Frequent barking cough and stridor	Struggling with persistent cough
Chest recession	No chest recession	Subcostal and retrosternal recession	Marked subcostal and retrosternal recession
Circulation and hydration	CRT < 2 seconds		
		Poor response to initial treatment Reduced fluid intake Uncertain diagnosis Significant parental anxiety, late evening/night presentation. No access to transport or long way from hospital	

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# Croup Advice Sheet

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child?



**Red**

- Blue lips
- Unresponsive and very irritable
- Finding it difficult to breathe with heaving of chest
- Pauses in breathing or irregular breathing patterns

**You need urgent help**  
please phone 999 or go  
to the nearest Accident  
and Emergency  
Department



**Amber**

- Not improving with treatment
- Breathing more noisy
- Breathing more laboured (chest 'indrawing')
- Persisting fevers of over 39 degrees centigrade

**You need to contact a  
doctor or nurse today**  
please ring your GP  
surgery or call NHS 111  
– dial 111



**Green**

- If none of the above

**Self Care**  
Using the advice  
overleaf you can  
provide the care your  
child needs at home

## Some useful phone numbers and information



**GP Surgery**  
(make a note of  
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available 24 hours –  
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# Croup Advice Sheet – Babies/Children under 2 years

## What is Croup?

Croup is an inflammation of the voice box characterised by a typical dry barking cough and sometimes leading to difficulty in breathing.

The condition most often affects small children. It is usually caused by a virus and occurs in epidemics particularly in the autumn and early spring.

Symptoms start with a mild fever and a runny nose. This progresses to a sore throat and a typical barking cough. Young children have smaller air passages and inflammation in the voice box leads to the gap between the vocal cords being narrowed. This may obstruct breathing, particularly when breathing in (stridor), which often starts in the middle of the night.

Croup develops over a period of one or two days, the severity and time that it persists varies, but often symptoms are worse on the second night of the cough.

Croup is usually caused by a virus and for that reason antibiotics are not normally effective.

## How can I help my child?

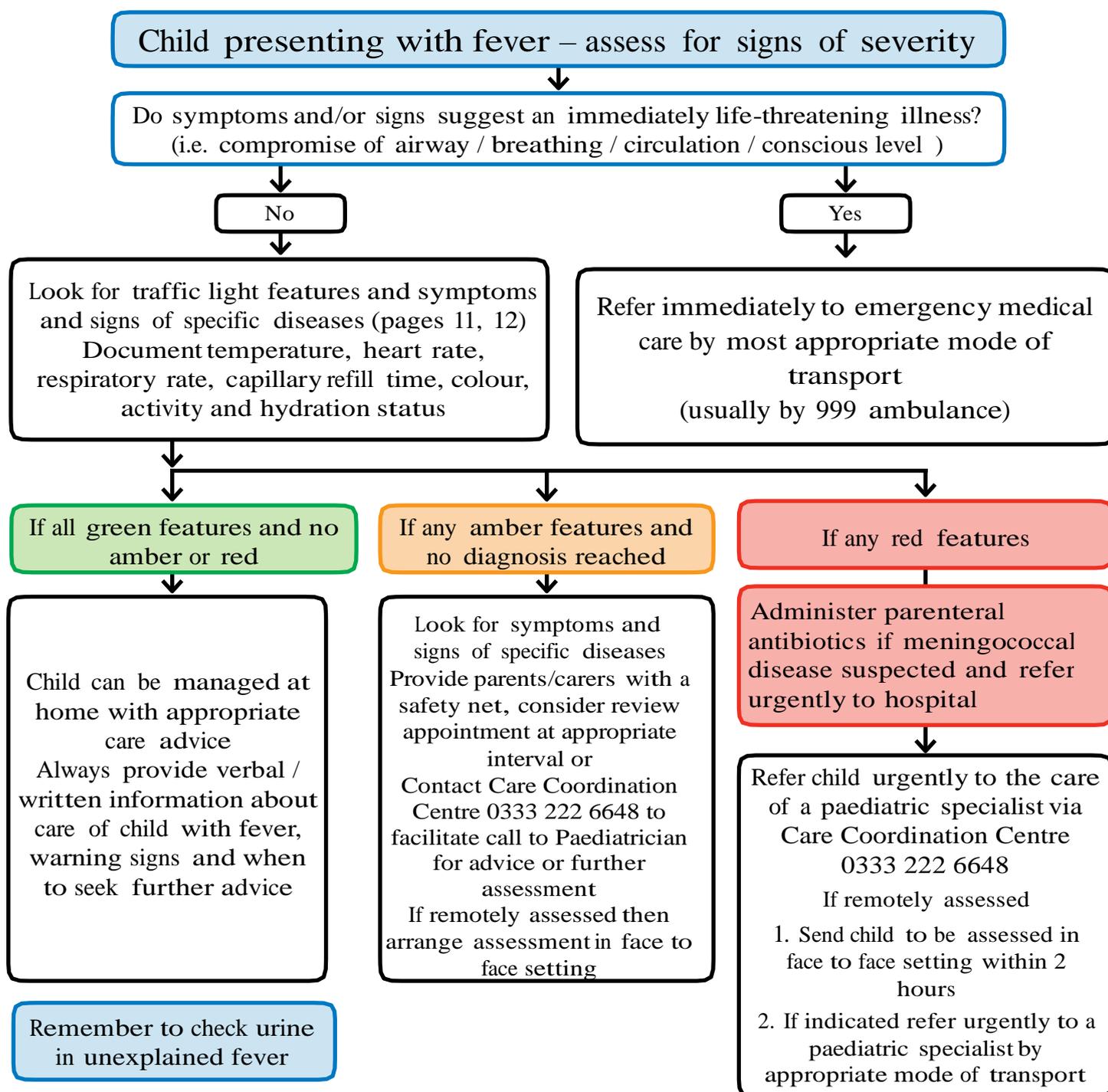
- ⌘ Be calming and reassuring. A small child may become distressed with croup. Crying can make things worse.
- ⌘ Sit the child upright on your lap if their breathing is noisy or difficult. Let the child find a comfortable position.
- ⌘ Give the child lots of cool drinks (if they are happy to take them).
- ⌘ A cool environment such as taking your child outside at night for a brief period may help
- ⌘ Lower the fever. If a child has a fever (high temperature) their breathing is often faster, and they may be more agitated and appear more ill. To lower a fever:
  - ⌘ Give paracetamol or ibuprofen.
  - ⌘ Lightly dress the child if the room is not cold.

## Be aware

Steam used to be commonly advised as a treatment. It was thought that steam may loosen the mucus and make it easier to breathe. However, there is little evidence that this does any good. Also, some children have been scalded by steam whilst being treated for croup. Therefore, steam is not recommended. Also, DO NOT make a child with breathing difficulty lie down or drink fluids if they don't want to, as that could make breathing worse.

# Clinical Assessment Tool

## Child with fever



When you feel a GP review in a specific time period is clinically appropriate but that falls outside of the 'in hours' GP service please advise your patient/family to call NHS 111 (at an agreed time interval / level of deterioration – depending on your concerns) and advise that there is a 'predetermined plan to speak with an Out of Hours GP'. Please provide your patient / family with a letter detailing your clinical findings and concerns to help the Out of Hours GP assessment.

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# Traffic light system for identifying risk of serious illness

	Green – low risk	Amber – intermediate risk	Red – high risk
Colour	<ul style="list-style-type: none"> <li>⌘ Normal Colour of skin, lips and tongue</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Pallor reported by parent/carer</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Pale/mottled/ashen/blue</li> </ul>
Activity	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>⌘ Not responding normally to social cues</li> <li>⌘ Wakes only with prolonged stimulation</li> <li>⌘ Decreased activity</li> <li>⌘ No smile</li> </ul>	<ul style="list-style-type: none"> <li>⌘ No response to social cues</li> <li>⌘ Appears ill to a healthcare professional</li> <li>⌘ Unable to rouse or if roused does not stay awake</li> <li>⌘ Weak, high-pitched or continuous cry</li> </ul>
Respiratory		<ul style="list-style-type: none"> <li>⌘ Nasal flaring</li> <li>⌘ Tachypnoea: - RR &gt; 50 breaths/minute age 6 - 12 months - RR &gt; 40 breaths/minute age &gt; 12 months</li> <li>⌘ Oxygen saturation &lt; 95% in air</li> <li>⌘ Crackles in the chest</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Grunting</li> <li>⌘ Tachypnoea: - RR &gt; 60 breaths/minute</li> </ul>
Circulation and Hydration	<ul style="list-style-type: none"> <li>⌘ Normal skin and eyes</li> <li>⌘ Moist mucous membranes</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Dry mucous membrane</li> <li>⌘ Poor feeding in infants</li> <li>⌘ CRT &gt; 3 seconds</li> <li>⌘ Tachycardia &gt;160 beats/minute age &lt; 1year &gt;150 beats/minute age 1 - 2 years &gt;140 beats/minute age 2 - 5 years</li> <li>⌘ Reduced urine output</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Reduced skin turgor</li> </ul>
Other	<ul style="list-style-type: none"> <li>⌘ None of the amber or red symptoms or signs</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Fever for &gt; 5 days</li> <li>⌘ Swelling of a limb or joint</li> <li>⌘ Non-weight bearing/not using an extremity</li> <li>⌘ A new lump &gt; 2 cm</li> <li>⌘ Age 3-6 months, temperature &gt; 39°C</li> <li>⌘ Rigors</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Age 0-3 months, temperature &gt; 38°C</li> <li>⌘ Non-blanching rash</li> <li>⌘ Bulging fontanelle</li> <li>⌘ Neck stiffness</li> <li>⌘ Status epilepticus</li> <li>⌘ Focal neurological signs</li> <li>⌘ Focal seizures</li> </ul>

CRT: capillary refill time

RR: respiratory rate

# Symptoms and signs of specific illnesses

Always check urine in unexplained fever

If meningococcal disease is suspected then administer parenteral antibiotics and refer urgently to hospital

Diagnosis to be considered	Symptoms and signs in conjunction with fever
Meningococcal disease	Non-blanching rash, particularly with one or more of the following: <ul style="list-style-type: none"> <li>⌘ An ill-looking child</li> <li>⌘ Lesions larger than 2 mm in diameter (purpura)</li> <li>⌘ CRT &gt; 3 seconds</li> <li>⌘ Neck stiffness</li> </ul>
Meningitis <sup>1</sup>	Neck stiffness <ul style="list-style-type: none"> <li>⌘ Bulging fontanelle</li> <li>⌘ Decreased level of consciousness</li> <li>⌘ Convulsive status epilepticus</li> </ul>
Herpes simplex encephalitis	Focal neurological signs <ul style="list-style-type: none"> <li>⌘ Focal seizures</li> <li>⌘ Decreased level of consciousness</li> </ul>
Pneumonia	⌘ Tachypnoea, measured as: <ul style="list-style-type: none"> <li>- 0-5 months - RR &gt; 60 breaths/minute</li> <li>- 6-12 months - RR &gt; 50 breaths/minute</li> <li>- &gt; 12 months - RR &gt; 40 breaths/minute</li> </ul> <ul style="list-style-type: none"> <li>⌘ Crackles in the chest</li> <li>⌘ Nasal flaring</li> <li>⌘ Chest indrawing</li> <li>⌘ Cyanosis</li> <li>⌘ Oxygen saturation &lt; 95%</li> </ul>
Urinary tract infection (in children aged older than 3 months) <sup>2</sup>	<ul style="list-style-type: none"> <li style="width: 50%;">⌘ Vomiting</li> <li style="width: 50%;">⌘ Abdominal pain or tenderness</li> <li style="width: 50%;">⌘ Poor feeding</li> <li style="width: 50%;">⌘ Urinary frequency or dysuria</li> <li style="width: 50%;">⌘ Lethargy</li> <li style="width: 50%;">⌘ Offensive urine or haematuria</li> <li style="width: 50%;">⌘ Irritability</li> </ul>
Septic arthritis/osteomyelitis	<ul style="list-style-type: none"> <li>⌘ Swelling of a limb or joint</li> <li>⌘ Not using an extremity</li> <li>⌘ Non-weight bearing</li> </ul>
Kawasaki disease <sup>3</sup>	Fever lasting longer than 5 days and at least four of the following: <ul style="list-style-type: none"> <li>⌘ Bilateral conjunctival injection</li> <li>⌘ Change in upper respiratory tract mucous membranes (for example, injected pharynx, dry cracked lips or strawberry tongue)</li> <li>⌘ Change in the peripheral extremities (for example, oedema, erythema or desquamation)</li> <li>⌘ Polymorphous rash</li> <li>⌘ Cervical lymphadenopathy</li> </ul>
CRT: capillary refill time RR: respiratory rate	
<sup>1</sup> Classical signs (neck stiffness, bulging fontanelle, high-pitched cry) are often absent in infants with bacterial meningitis.	
<sup>2</sup> 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, publication August 2007).	
<sup>3</sup> Note: in rare cases, incomplete/atypical Kawasaki disease may be diagnosed with fewer features.	

# Fever advice for children and young people in Shropshire

## What is a fever?

A fever is an increase in body temperature. This in itself is not dangerous. Your child's body temperature is normally between 36°C and 37°C, variations between 0.5 and 1 degree are common.

Fevers in children are not uncommon. This leaflet provides advice on when to seek help and on what you can do to help your child feel better. Often the fever lasts for a short duration and many children can be cared for at home if the child continues to drink, remains alert and does not develop any worrying symptoms.

However, if you are worried or your child is getting worse with warning symptoms as listed in this leaflet, then you should seek the advice of a healthcare professional.

## Working out the cause of the fever

If you are talking to a healthcare professional on the telephone, they will ask you questions about your child's health and symptoms. This will help them to decide if your child is best cared for at home or needs to see a healthcare professional face to face.

Sometimes your healthcare professional will not find a reason for your child's fever, even after a full examination. If your child is otherwise looking well, then treatment may not be necessary.

Most children can be safely cared for at home if otherwise well. Your healthcare professional may decide that your child needs a follow-up appointment. They will give you information on how to look for symptoms that may suggest more serious illnesses and how to get further help if they occur.

## Looking after your feverish child

- ⌘ Give your child plenty of drinks e.g. water or squash. If you are breastfeeding then continue as breast milk is best. Give babies smaller but more frequent feeds to help keep them hydrated.

- ⌘ Do not worry about food if your child does not feel like eating but encourage them to drink more fluids.
- ⌘ Look for signs of dehydration such as a dry mouth, lack of tears, sunken eyes, sunken fontanelle – the soft spot on your baby's head, passing less amounts of urine.
- ⌘ Children with a fever should not be over or underdressed. If your child is shivering or sweating a lot, change the amount of clothes they are wearing.
- ⌘ Physical methods of cooling your child such as fanning them, cold bathing and tepid sponging can cause discomfort and are not advised.
- ⌘ It is not necessary to use medicines to treat your child's fever but if your child is distressed, you can help them feel better by giving them medicines like paracetamol or Ibuprofen. These medicines should not be given together. Always follow the instructions on the bottle to avoid overdosing your child. These medicines can make your child feel more comfortable but they do not treat the cause of the temperature.
- ⌘ Check on your child regularly, including during the night, especially if your child is under 6 months old as they are at higher risk of serious infection.
- ⌘ Keep your child away from nursery or school whilst they have a fever.

## The tumbler test

- ⌘ If a rash appears, do the tumbler test. Press a glass tumbler firmly against the rash. If you can see spots through the glass and they do not fade, this is called a 'non blanching rash'. If this rash is present, seek medical advice immediately to rule out serious infection. The rash is harder to see on dark skin so check paler areas such as the palms of hands and soles of feet.

This guide will help you to select the right service to contact. You need to regularly check your child and follow the advice below:

- ⌘ If your child becomes unresponsive
- ⌘ If your child becomes blue
- ⌘ If your child is finding it hard to breathe
- ⌘ If your child has a fit
- ⌘ If your child develops a rash that does not disappear with pressure (see the tumbler test)

**You need urgent help please phone 999 or go straight to the nearest Accident and Emergency Dept.**



- ⌘ If your child's health gets worse or if you are worried
- ⌘ If your child has signs of dehydration including dry mouth, no tears, sunken eyes, sunken fontanelle (soft spot on the baby's head), drowsiness and seems generally unwell
- ⌘ The temperature lasts more than 5 days and your child has not seen a health care professional
- ⌘ If your child is less than 6 months old

You need to see a nurse or doctor today. Please ring your surgery/health visitor/community nurse/Shropshire Walk-in Centre or contact NHS111 by dialing 111 for access to the Out of Hours GP service.

If you have concerns about looking after your child at home

**If you need advice  
please contact NHS 111  
Please phone 111**

## Useful Information

### GP Surgery

Shropshire Public Health Nursing Service  
General Contact Number: 0333 358 3654

**Shropshire Walk-in Centre**  
Located next to A&E at  
**Royal Shrewsbury Hospital.**  
Open from 8am to 8pm,  
7 days a week including bank  
holidays

**NHS 111:**  
Dial 111 24 hour telephone service

# Sepsis advice sheet

## What is Sepsis?

- Sepsis is a rare but serious medical condition that results from the body's overwhelming response to an infection.
- Sepsis can occur in anyone at any time and from any type of infection affecting any part of the body.
- Without quick and timely treatment, sepsis can lead to septic shock, multi-organ failure and death.

## Causes of Sepsis

Sepsis is most often caused by bacterial, viral or fungal infections; sometimes the cause of sepsis is never identified.

Children with pneumonia, urinary tract infections, meningitis and severe skin infections can rapidly deteriorate and develop sepsis.

It is important to recognise and act quickly on the symptoms of sepsis in order to reduce morbidity and mortality.

## Look out for the signs of Sepsis

A raised temperature (fever) in children is common, but can be worrying. Almost all children will recover quickly and without problems. However, a very small proportion may have a serious infection with sepsis (bloodstream infection) that requires urgent treatment in hospital.

This information is designed to help you monitor your child's condition if they have a raised temperature, so you know when to ask for help and can describe the symptoms.

Just tick off any of those symptoms that you observe with a note of the date and time, and follow the advice at the top of the page.

For ease of use, the symptoms are split into:

Amber, where medical advice should be asked for

Red, which means you should get the child to hospital quickly – dial '999' if necessary and ask for an ambulance.

Again, we must stress that the great majority of children do not have sepsis. **But if you do have concerns and your child seems to be getting worse, even if their temperature falls, act swiftly just in case.**

## Find out more

Detailed information can be found on the NICE website: [www.nice.org.uk/Guidance/CG160](http://www.nice.org.uk/Guidance/CG160)

The UK Sepsis Trust also has a lot of helpful material at: [www.sepsistrust.org](http://www.sepsistrust.org)

**Email:** [info@sepsistrust.org](mailto:info@sepsistrust.org) **Phone:** 0845 606 6255

## Amber (intermediate risk: ask for advice)

Some (but not all) children with these symptoms are seriously unwell. If you have any concerns, a trained health professional needs to assess them promptly. Contact your GP, NHS 111 or minor injuries unit.

	time/date	time/date	time/date	NOTES	
<b>Skin, lips and tongue</b>					
Unusually pale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rash that fades when pressed firmly (use a clear glass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<b>Activity</b>					
Not responding normally to family or <u>carers</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Not <u>smiling</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Difficult to wake up or unusually sleepy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Not <u>wanting to</u> do very much	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<b>Breathing</b>					
Nostrils are flaring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Fast breathing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Unusually noisy or crackly breathing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Cough <u>that sounds</u> like a seal barking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<b>Circulation</b>					
Cold hands and feet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<b>Temperature and body</b>					
Shivering or shaking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Raised temperature for 5 days or more	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Swelling of a limb or joint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Not using/putting weight on an arm, leg, hand or foot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Aged 3-6 months with temperature of 39°C or above					
<b>Vomiting, <u>diarrhoea</u> and hydration</b>					
Under 1 year of age – vomiting and/or <u>diarrhoea</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
More than 5 watery poos in the last 24 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Has vomited more than twice in last 24 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Not feeding or eating much	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Dry mouth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Only one wet nappy or wee in 12 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

## Red (high risk: take immediate action)

Many (but not all) children with these features are seriously unwell and need to be assessed straight away in hospital. Dial '999' for an ambulance if necessary.

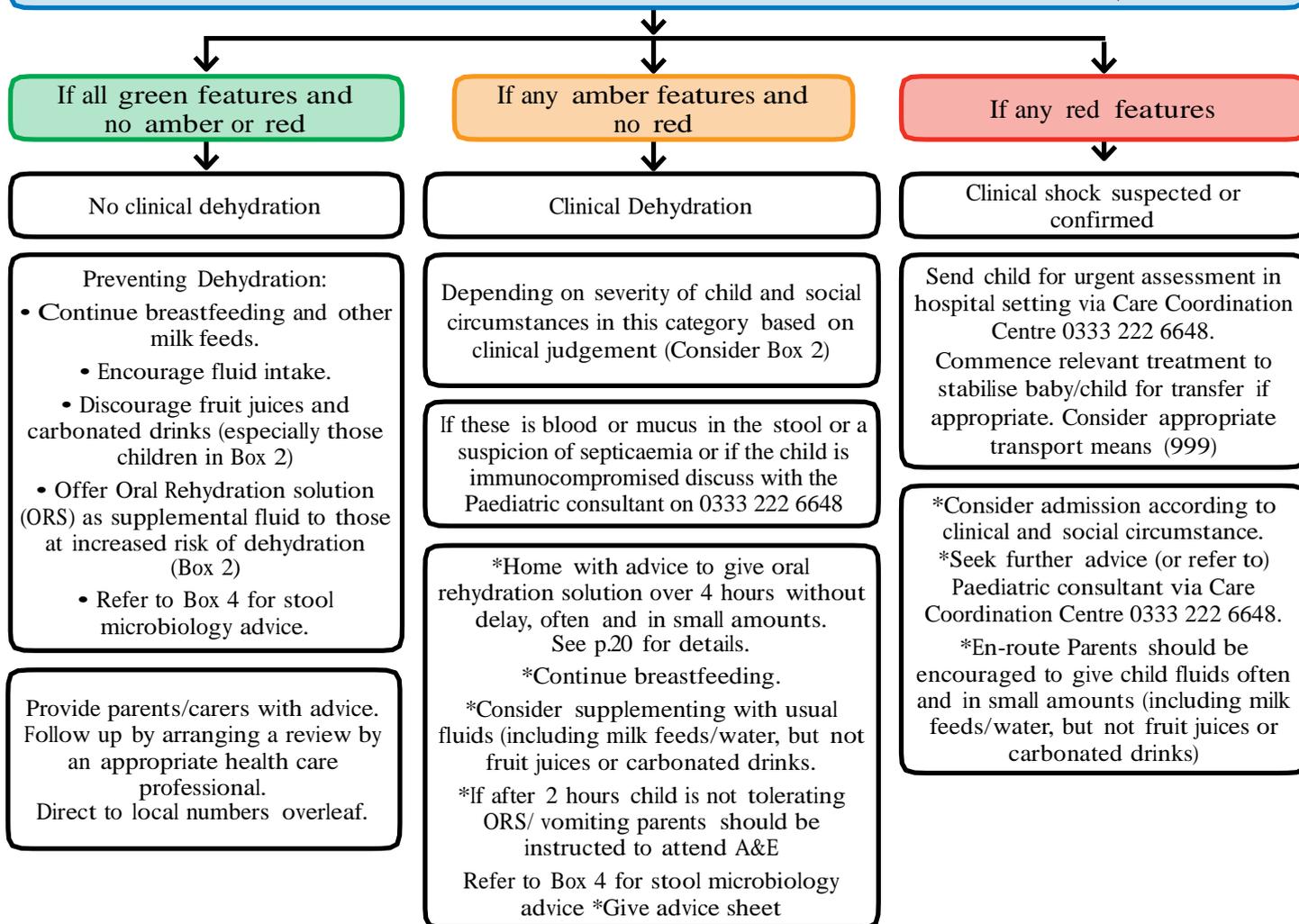
	Notes
<b>Skin, lips and tongue</b>	
Very pale or blue skin and sunken eyes	<input type="checkbox"/>
Rash that does not fade when pressed firmly (use a clear glass)	<input type="checkbox"/>
<b>Activity</b>	
Not responding to <u>carers</u>	<input type="checkbox"/>
Very difficult to wake up	<input type="checkbox"/>
Weak, high-pitched or continuous cry in younger children	<input type="checkbox"/>
Older children are confused or unusually irritable	<input type="checkbox"/>
<b>Breathing</b>	
Finding it much harder to breathe than normal	<input type="checkbox"/>
Grunting breathing	<input type="checkbox"/>
Very fast breathing: more than 60 breaths a minute	<input type="checkbox"/>
Noticeable pauses in breathing	<input type="checkbox"/>
<b>Circulation</b>	
Very cold hands and feet	<input type="checkbox"/>
<b>Temperature and body</b>	
Under 3 months with raised temperature over 38°C	<input type="checkbox"/>
The soft spot on an infant's head is bulging	<input type="checkbox"/>
Stiff neck, especially when trying to look up and down	<input type="checkbox"/>
The child has a seizure	<input type="checkbox"/>
<b>Vomiting, <u>diarrhoea</u> and hydration</b>	
Very thirsty and not able to keep fluids down	<input type="checkbox"/>
<u>Bloody</u> or black 'coffee ground' vomit	<input type="checkbox"/>
Not had a wee for 12 hours	<input type="checkbox"/>

# Clinical Assessment Tool

## Child with Suspected Gastroenteritis 0-5 years

Child presenting with diarrhoea and vomiting

Assess for signs of dehydration, see table 1 below (consider Boxes 1 and 2 overleaf)



### Traffic light system for identifying signs and symptoms of clinical dehydration and shock

	Green – low risk	Amber – intermediate risk	Red – high risk
Activity	<ul style="list-style-type: none"> <li>☞ Responds normally to social cues</li> <li>☞ Content/Smiles</li> <li>☞ Stays awake/awakens quickly</li> <li>☞ Strong normal cry/not crying</li> </ul>	<ul style="list-style-type: none"> <li>☞ Altered response to social cues</li> <li>☞ Decreased activity</li> <li>☞ No smile</li> </ul>	<ul style="list-style-type: none"> <li>☞ Not responding normally to or no response to social cues</li> <li>☞ Appears ill to a healthcare professional</li> <li>☞ Unable to rouse or if roused does not stay awake</li> <li>☞ Weak, high-pitched or continuous cry</li> </ul>
Skin	<ul style="list-style-type: none"> <li>☞ Normal skin colour</li> <li>☞ Normal turgour</li> </ul>	<ul style="list-style-type: none"> <li>☞ Normal skin colour</li> <li>☞ Warm extremities</li> </ul>	<ul style="list-style-type: none"> <li>☞ Pale/Mottled/Ashen blue</li> <li>☞ Cold extremities</li> </ul>
Respiratory	<ul style="list-style-type: none"> <li>☞ Normal breathing</li> </ul>	<ul style="list-style-type: none"> <li>☞ Tachypnoea (ref to normal values table 3)</li> </ul>	<ul style="list-style-type: none"> <li>☞ Tachycardic (ref to normal values table 3)</li> </ul>
Hydration	<ul style="list-style-type: none"> <li>☞ CRT ≤ 2 secs</li> <li>☞ Moist mucous membranes (except after a drink)</li> <li>☞ Normal urine</li> </ul>	<ul style="list-style-type: none"> <li>☞ CRT 2–3 secs</li> <li>☞ Dry mucous membranes (except after a drink)</li> <li>☞ Reduced urine output</li> </ul>	<ul style="list-style-type: none"> <li>☞ CRT &gt; 3 seconds</li> </ul>
Pulses/ Heart Rate	<ul style="list-style-type: none"> <li>☞ Heart rate normal</li> <li>☞ Peripheral pulses normal</li> </ul>	<ul style="list-style-type: none"> <li>☞ Tachycardic (ref to normal values table 3)</li> <li>☞ Peripheral pulses weak</li> </ul>	<ul style="list-style-type: none"> <li>☞ Tachycardic (ref to normal values table 3)</li> <li>☞ Peripheral pulses weak</li> </ul>
Blood Pressure	<ul style="list-style-type: none"> <li>☞ Normal (ref to normal values table 3)</li> </ul>	<ul style="list-style-type: none"> <li>☞ Normal (ref to normal values table 3)</li> </ul>	<ul style="list-style-type: none"> <li>☞ Hypotensive (ref to normal values table 3)</li> </ul>
Eyes	<ul style="list-style-type: none"> <li>☞ Normal Eyes</li> </ul>	<ul style="list-style-type: none"> <li>☞ Sunken Eyes</li> </ul>	

CRT: capillary refill time

RR: respiration rate

**Box 1 Consider the following that may indicate diagnoses other than gastroenteritis:**

- ⌘ Temperature of 38°C or higher (younger than 3 months)
- ⌘ Temperature of 39°C or higher (3 months or older)
- ⌘ Shortness of breath or tachypnea
- ⌘ Altered conscious state
- ⌘ Neck-stiffness
- ⌘ Abdominal distension or rebound tenderness
- ⌘ History/Suspicion of poisoning
- ⌘ Bulging fontanelle (in infants)
- ⌘ Non-blanching rash
- ⌘ Blood and/or mucus in stool
- ⌘ Bilious (green) vomit
- ⌘ Severe or localised abdominal pain
- ⌘ History of head injury

**Box 2 These children are at increased risk of dehydration:**

- ⌘ Children younger than 1 year, especially those younger than 6 months
- ⌘ Infants who were of a low birth weight
- ⌘ Children who have passed six or more diarrhoeal stools in the past 24 hours.
- ⌘ Children who have vomited three times or more in the last 24 hours.
- ⌘ Children who have not been offered or have not been able to tolerate supplementary fluids before presentation.
- ⌘ Infants who have stopped breastfeeding during the illness.
- ⌘ Children with signs of malnutrition.

**Box 3 Normal Paediatric Values:**

<b>Mean Respiratory Rate:</b>	<b>Mean Heart Rate:</b>
Infant: 40	Infant: 120-170 bpm
Toddler: 35	Toddler: 80-110 bpm
Pre-School: 31	Pre-School: 70-110 bpm
School age: 27	School age: 70-110 bpm

**Box 4 Stool Microbiology Advice:**

Consider performing stool microbiological investigations if:

- ⌘ the child has recently been abroad or
- ⌘ the diarrhoea has not improved by day 7

**Some Useful Telephone Numbers**

**Ensure the parent/carer has the number of their GP/Practice Nurse/ .....**

**Shropshire Public Health Nursing Service, General Contact Number: 0333 358 3654**

**Community Nurse .....**

**NHS Direct . Dial 111 24 hour telephone service**

When you feel a GP review in a specific time period is clinically appropriate but that falls outside of the 'in hours' GP service please advise your patient/family to call NHS 111 (at an agreed time interval / level of deterioration – depending on your concerns) and advise that there is a 'predetermined plan to speak with an Out of Hours GP'. Please provide your patient / family with a letter detailing your clinical findings and concerns to help the Out of Hours GP assessment.

**This guidance is written in the following context**

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively \*SIGN, Bristol guideline, EBM data and NHS evidence. 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 guardian or carer.

## GP Fluid Challenge Guidelines

The table below gives the normal maintenance fluid volumes based on weight for mild to moderately dehydrated children. For the first 10kg of weight- 4ml/kg/hour, for the second 10kg – 2ml/kg/hr, for all remaining kg – 1ml/kg/hr. Aim for 75-100% of the fluid volumes listed below per hour when awake, given gradually over the hour via syringe. Fluid should be clear, ideally oral rehydration solutions eg dioralyte. If the child is breast-fed continue breastfeeding. Seek review if the patient

- ⌘ Is not taking fluids
- ⌘ Is not keeping fluids down
- ⌘ Is becoming more unwell
- ⌘ Has reduced urine output

If the assessment shows “Red” features refer patient to PAU.

Child's weight in kg	Maintenance fluid volume – ml per hour
2	8
3	12
4	16
5	20
6	24
7	28
8	32
9	36
10	40
11	42
12	44
13	46
14	48
15	50
16	52
17	54
18	56
19	58
20	60
21	61
22	62
23	62
24	64
25	65
26	66
27	67
28	68
29	69
30	70

Child's weight in kg	Maintenance fluid volume – ml per hour
31	71
32	72
33	73
34	74
35	75
36	76
37	77
38	78
39	79
40	80
41	81
42	82
43	83
44	84
45	85
46	86
47	87
48	88
49	89
50	90
51	91
52	92
53	93
54	94
55	95
56	96
57	97
58	98
59	99



# Gastroenteritis (Diarrhoea and/or Vomiting) Advice Sheet (0-5 years)

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child? (traffic light advice)



**Red**

**If your child:**

- becomes difficult to rouse / unresponsive
- becomes pale and floppy
- is finding it difficult to breathe
- has cold feet and hands
- has diabetes

**You need urgent help**

please phone 999 or go to the nearest Hospital Emergency (A&E) Department



**Amber**

**If your child:**

- seems dehydrated: ie. dry mouth, sunken eyes, no tears, sunken fontanelle (soft spot on baby's head), drowsy or passing less urine than normal
- has blood in the stool (poo) or constant tummy pain
- has stopped drinking or breastfeeding and / or is unable to keep down
- becomes irritable or lethargic
- their breathing is rapid or deep
- is under 3 months old

**You need to contact a doctor or nurse today**

please ring your GP surgery or call NHS 111 – dial 111



**Green**

If none of the above features are present, most children with Diarrhoea and / or Vomiting can be safely managed at home.

*(However some children are more likely to become dehydrated including: children younger than 1 year old or if they had a low birth weight. In these cases or if you still have concerns about your child please contact your GP surgery or call NHS 111)*

**Self Care**

Using the advice overleaf you can provide the care your child needs at home

Most children with diarrhoea and / or vomiting get better very quickly, but some children can get worse. You need to regularly check your child and follow the advice given to you by your healthcare professional and / or as listed on this sheet.

## Some useful phone numbers and information



**GP Surgery**  
(make a note of number here)

**NHS 111**

**dial 111**

available 24 hours –  
7 days a week

Shropshire Walk-in Centre  
Located next to A&E at  
Royal Shrewsbury Hospital  
Open from 8am to 8pm,  
7 days a week including bank holidays

**For online advice: NHS Choices** [www.nhs.uk](http://www.nhs.uk) (available 24 hours – 7 days a week)

If you need language support or translation please inform the member of staff to whom you are speaking.

For more copies of this document, please email; [shrccg.communicationsteam@nhs.net](mailto:shrccg.communicationsteam@nhs.net)

Or visit Shropshire CCG Website <http://www.shropshireccg.nhs.uk/health-advice/self-care/>

# Gastroenteritis (Diarrhoea and/or Vomiting) Advice Sheet (0-5 years)

## About Gastroenteritis

Severe diarrhoea and / or vomiting can lead to dehydration, which is when the body does not have enough water or the right balance of salts to carry out its normal functions. If the dehydration becomes severe it can be dangerous. Children at increased risk of dehydration include: young babies under 1 year old (and especially the under 6 months), those born at a low birth weight, those who have stopped drinking or breastfeeding during the illness and children with malnutrition or with faltering growth.

## How can I look after my child?

Based on: Diarrhoea and vomiting in children under 5, 2009 NICE clinical guideline 84 \*Reference: BNF for Children Volume 1.4.2 (Page 47)

- ⌘ Diarrhoea can often last between 5 – 7 days and stops within 2 weeks. Vomiting does usually not last for more than 3 days. If your child continues to be ill longer than these periods, seek advice.
- ⌘ Continue to offer your child their usual feeds, including breast or other milk feeds.
- ⌘ Encourage your child to drink plenty of fluids – little and often. Water is not enough and ideally Oral Rehydration Solution (ORS) is best. ORS can be purchased over the counter at large supermarkets and pharmacies and can help prevent dehydration from occurring.
- ⌘ Your healthcare professional may recommend that you give your child a special fluid known as Oral Rehydration Solution (ORS) eg. Dioralyte. It is also used to treat children who have become dehydrated.
- ⌘ Mixing the contents of the ORS sachet in dilute squash (not “sugar-free” squash) instead of water may improve the taste.
- ⌘ Do not worry if your child is not interested in solid food, but offer food if hungry. It is advisable not to give fizzy drinks and/or fruit juices as they can make diarrhoea worse.
- ⌘ If your child has other symptoms like a high temperature, neck stiffness or rash please ask for advice from a health care professional.
- ⌘ Your child may have stomach cramps; if simple painkillers do not help please seek further advice.
- ⌘ If your child is due routine immunisations please discuss this with your GP or practice nurse, as they may not need to be delayed.
- ⌘ **Hand washing is the best way to stop gastroenteritis spreading.**

First Version: May 2011 • Final Version: Nov 2013 • Review Date: Nov 2015

## After Care

\*Reference: BNF for Children Volume 1.4.2 (Page 47)

Once your child is rehydrated and no longer vomiting:

- ⌘ Reintroduce the child’s usual food.
- ⌘ If dehydration recurs, start giving ORS again.
- ⌘ Anti-diarrhoeal medicines (also called Antimotility drugs) should not be given to children\*.

## Preventing the spread of Gastroenteritis (diarrhoea and / or vomiting):



**You and/or your child should wash your hands with soap (liquid if possible) in warm running water and then dry them carefully:**

- After going to the toilet
- After changing nappies
- Before touching food



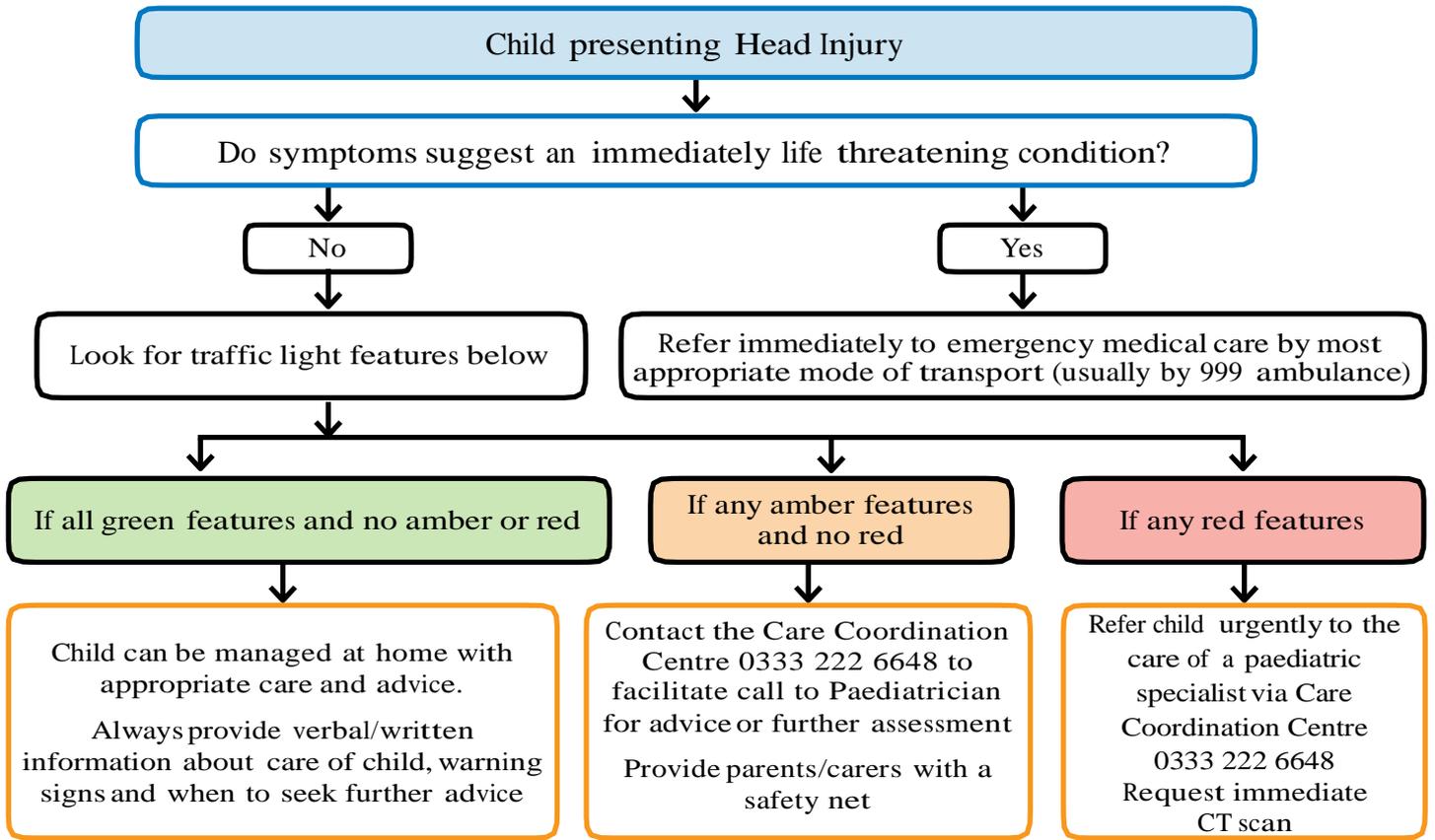
**Your child should not:**

- Share his or her towels with anyone
- Go to school or any other childcare facility until 48 hours after the last episode of diarrhoea and /or vomiting
- Swim in swimming pools until 2 weeks after the diarrhoea

This guidance is written in the following context: 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.

# Clinical Assessment Tool

## Head Injury



Green	Amber	Red
Has not been knocked out at any time	Has fallen from a height greater than the child's own height	Witnessed loss of consciousness lasting more than 5 minutes
Is alert and interacts with you	Has fallen from a height greater than a metre	Amnesia lasting more than 5 minutes
Has been sick but only once	Has fallen down stairs	Abnormal drowsiness
Has bruising or minor cuts to the head	Has had a persistent headache since the injury	3 or more discrete episodes of vomiting
Cried immediately but is otherwise normal	Has a blood clotting disorder	Clinical suspicion on non-accidental injury
15 on GCS	Has consumed alcohol	Post traumatic seizure but no history of epilepsy
		Age > 1 year: GCS < 14 on assessment
		Age < 1 year: GCS (Paediatric) < 15 on assessment
		At 2 hours after the injury, GCS less than 15
		Suspicion of open or depressed skull injury or tense fontanelle
		For children under 1 year, presence of bruise, swelling or laceration of more than 5 cm on the head.
		Any sign of basal skull fracture (haemotympanum, "panda" eyes, cerebrospinal fluid leakage from ears or nose, Battle's sign)
		Focal neurological deficit
		Dangerous mechanism of injury (high speed road traffic accident, fall from >3m, high speed injury from a projectile or an object)

**Glasgow Coma Scale** – assess child against scale. The lowest possible GCS (the sum) is 3 (deep coma or death), while the highest is 15 (fully awake person).

	1	2	3	4	5	6
<b>Eye</b>	Does not open eyes	Opens eyes in response to painful stimuli	Opens eyes in response to voice	Opens eyes spontaneously	N/A	N/A
<b>Verbal</b>	Makes no sounds	Incomprehensible sounds	Utters inappropriate words	Confused, disoriented	Oriented, converses normally	N/A
<b>Motor</b>	Makes no movements	Extension to painful stimuli (decerebrate response)	Abnormal flexion to painful stimuli (decorticate response)	Flexion / Withdrawal to painful stimuli	Localizes painful stimuli	Obeys commands

When you feel a GP review in a specific time period is clinically appropriate but that falls outside of the 'in hours' GP service please advise your patient/family to call NHS 111 (at an agreed time interval / level of deterioration – depending on your concerns) and advise that there is a 'predetermined plan to speak with an Out of Hours GP'. Please provide your patient / family with a letter detailing your clinical findings and concerns to help the Out of Hours GP assessment.

This guidance is written in the following context

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively use BTS Guidelines and NHS evidence. 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 guardian or carer.

# Head Injury Advice Sheet

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child?



**Red**

- Has been “knocked out” at any time
- Been sick more than once
- Has clear fluid dribbling out of their ears, nose or both
- Has blood coming from inside one or both of their ears
- Has difficulty speaking or understanding what you are saying
- Is sleepy and you cannot get them to wake up
- Has weakness in their arms and legs or is losing their balance
- Has had a convulsion or fit

**You need urgent help**

please phone 999 or go to the nearest Accident and Emergency Department



**Amber**

- Has been deliberately harmed (abused)
- Has fallen from a height greater than the child’s own height
- Has fallen from a height greater than a meter or a yard
- Is under 1 year old
- Has fallen down stairs (from top to bottom poses more risk than bumping down the stairs)
- Had a persistent headache since the injury
- Has a blood clotting disorder
- Has consumed alcohol

**You need to contact a doctor or nurse today**

please ring your GP surgery or call NHS 111 – dial 111



**Green**

- Has not been “knocked out” at any time
- Is alert and interacts with you
- Has been sick but only once
- Has bruising or minor cuts to the head
- Cried immediately but is otherwise normal

**Self Care**

Using the advice overleaf you can provide the care your child needs at home

## Some useful phone numbers and information



**GP Surgery**  
(make a note of number here)

**NHS 111**  
**dial 111**

available 24 hours –  
7 days a week

Shropshire Walk-in Centre  
Located next to A&E at  
Royal Shrewsbury Hospital  
Open from 8am to 8pm,  
7 days a week including bank holidays

For online advice: NHS Choices [www.nhs.uk](http://www.nhs.uk) (available 24 hours – 7 days a week)

If you need language support or translation please inform the member of staff to whom you are speaking.

For more copies of this document, please email

[shrccg.communicationsteam@nhs.net](mailto:shrccg.communicationsteam@nhs.net)

# Head Injury Advice Sheet

## Things that will help your child get better

If you follow this advice it should help your child get better more quickly and it may help any symptoms they have to go away.

- ⌘ Do encourage your child to have plenty of rest and avoid stressful situations.
- ⌘ Do not give them sleeping pills, sedatives or tranquilisers unless they are prescribed for your child by a doctor.

## Self care

- ⌘ Clean any wound with tap water.
- ⌘ If the area is swollen or bleeding apply pressure.
- ⌘ Give your child children's liquid paracetamol or ibuprofen if they are in pain. Always follow the manufacturers' instructions for the correct dose.
- ⌘ Observe your child closely for the next 2-3 days and check that they are behaving normally and they respond to you as usual.
- ⌘ If the area is swollen or bruised, try placing a cold facecloth over it for 20 minutes every 3-4 hours.
- ⌘ Make sure your child is drinking enough fluid – water is best, and lukewarm drinks can also be soothing.
- ⌘ Keep the room they are in at a comfortable temperature, but well ventilated
- ⌘ It is OK to allow your child to sleep, but observe them regularly and check they respond normally to touch and that their breathing and position in bed is normal.
- ⌘ Give them plenty of rest, and make sure they avoid any strenuous activity for the next 2-3 days or until their symptoms have settled.
- ⌘ You know your child best. If you are concerned about them you should seek further advice.

## These things are expected after a head injury

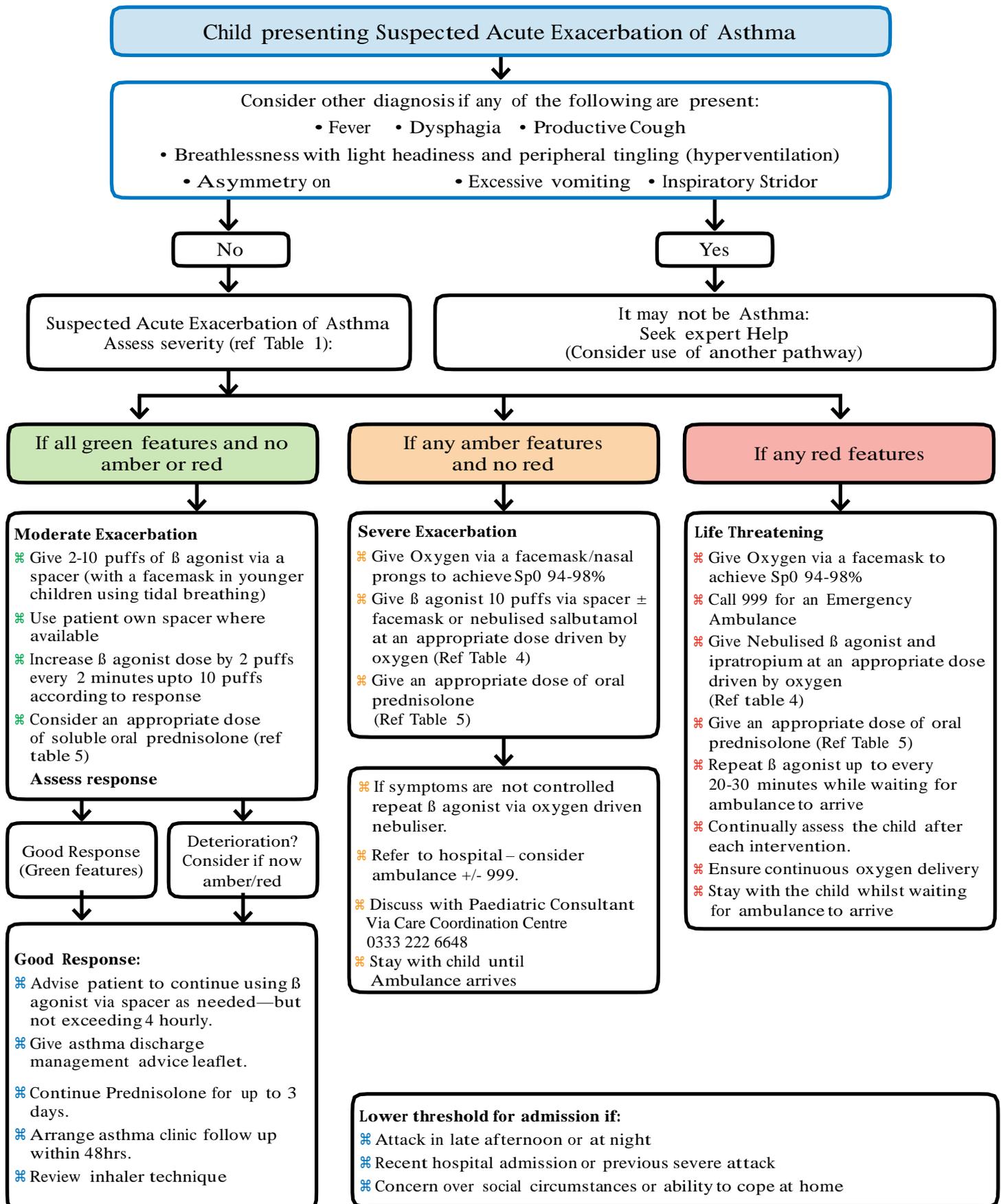
- ⌘ Intermittent headache especially whilst watching TV or computer games
- ⌘ Being off their food
- ⌘ Tiredness or trouble getting to sleep
- ⌘ Short periods of irritability, bad temper or poor concentration

## May last several weeks.

Do not let them play any contact sport (for example, football) for at least 3 weeks without talking to their doctor first.

# Clinical Assessment Tool

## Child with Acute Asthma 2-16 Years



# Clinical Assessment Tool continued

## Child with Acute Asthma 2-16 Years

**Table 1: Traffic Light system for identifying signs and symptoms of clinical dehydration and shock**

	Green – Moderate	Amber – Severe	Red – Life Threatening
Behaviour	Normal	Anxious/Agitated	Exhaustion/Confusion
Talking	In sentences	Not able to complete a sentence in one breath	Not able
Heart Rate	Within normal range (Ref to table 2)	>140 beats p/min (2-5 years) >125 beats p/min (>5 years) *Consider influence of fever &/or Salbutamol	
Respiratory	<40 breaths/min 2-5 years <30 breaths/min 5-12 years <25 breaths/min 12-16 years	Rate>40 Breaths/min 2-5 years Rate>30 Breaths/min >5 years Silent Chest	
SaO2	≥92% in air		<92% in air
PEFR	>50% of predicted (Ref to table 3)	33-50% of predicted (Ref to table 3)	<33% of predicted (Ref to table 3)

CRT: capillary refill time RR: respiration rate

**Table 2: Normal Paediatric Values:**

Respiratory Rate at Rest:	Systolic Blood Pressure
2-5yrs 25-30 breaths/min	2-5yrs 80-100 mmhg
5-12yrs 20-25 breaths/min	5-12yrs 90-110 mmhg
>12yrs 15-20 breaths/min	>12yrs 100-120 mmhg
Heart Rate	
2-5yrs 95-140 bpm	
5-12yrs 80-120 bpm	
>12yrs 60-100 bpm	

**Table 3:** Predicted Peak Flow: For use with EU / EN13826 scale PEF metres only

Height (m)	Height (ft)	Predicted EU PEFR	Height (m) (L/min)	Height (ft)	Predicted EU PEFR (L/min)
0.85	2'9"	87	1.30	4'3"	212
0.90	2'11"	95	1.35	4'5"	233
0.95	3'1"	104	1.40	4'7"	254
1.00	3'3"	115	1.45	4'9"	276
1.05	3'5"	127	1.50	4'11"	299
1.10	3'7"	141	1.55	5'1"	323
1.15	3'9"	157	1.60	5'3"	346
1.20	3'11"	174	1.65	5'5"	370
1.25	4'1"	192	1.70	5'7"	393

**Table 4: Guidelines for nebuliser**

- Significantly low sats despite inhaler and spacer use
- Oxygen Saturations persistently below 96%
- Requiring oxygen
- Unable to use volumatic/spacer device
- Severe respiratory distress

#### Salbutamol

2-5 years– 2.5mg, 5-12 years– 2.5-5mg, 12-16 years– 5mg

#### Ipratropium

under 12 years – 250micrograms,  
12-18 years – 500micrograms

**Table 5: Prednisolone Guideline BNF2010-2011**

Give prednisolone by mouth:

child under 12 years 1–2 mg/kg (max. 40 mg) daily for up to 3 days or longer if necessary, if the child has been taking an oral corticosteroid for more than a few days give prednisolone 2mg/kg (max. 60mg). Child 12-18 years 40-50mg daily for at least 5 days.

BTS guidelines 2011: (if weight not available)

Use a dose of 20mg for children 2-5 years and 30-40mg for children >5years.

When you feel a GP review in a specific time period is clinically appropriate but that falls outside of the 'in hours' GP service please advise your patient/family to call NHS 111 (at an agreed time interval / level of deterioration – depending on your concerns) and advise that there is a 'predetermined plan to speak with an Out of Hours GP'. Please provide your patient / family with a letter detailing your clinical findings and concerns to help the Out of Hours GP assessment.

# Asthma Advice Sheet

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child?



**Red**

- Drowsy
- Has severe wheeze
- Unable to speak in sentences
- Unable to take fluids and is getting tired
- Is unable to respond with loss in consciousness
- Breathless, with heaving of the chest

### You need urgent help

Ring 999 – you need help immediately. If you have a blue inhaler use it now, 1 puff per minute via spacer until the ambulance arrives.



**Amber**

- Wheezing and breathless
- Not responding to usual reliever treatment

### You need to see or speak to a doctor or nurse today

Please ring your GP surgery or call NHS 111 – dial 111



**Green**

- Requiring to use their reliever regularly throughout the day for cough or wheeze but is not breathing quickly
- Able to continue day to day activities
- Change in peak flow meter readings

### You need to see a doctor or nurse to discuss your child's asthma.

Please ring for a non urgent appointment.

## Some useful phone numbers and information



**GP Surgery**  
(make a note of number here)

**NHS 111**

**dial 111**

available 24 hours –  
7 days a week

Shropshire Walk-in Centre  
Located next to A&E at  
Royal Shrewsbury Hospital  
Open from 8am to 8pm,  
7 days a week including bank holidays

For online advice: NHS Choices [www.nhs.uk](http://www.nhs.uk) (available 24 hours – 7 days a week)

Asthma UK website [www.asthma.org.uk/advice/child/](http://www.asthma.org.uk/advice/child/)

If you need language support or translation please inform the member of staff to whom you are speaking.

For more copies of this document, please email: [shrccg.communicationsteam@nhs.net](mailto:shrccg.communicationsteam@nhs.net)

Or visit Shropshire CCG Website <http://www.shropshireccg.nhs.uk/health-advice/self-care/>

# Asthma Advice Sheet – self care

## What is asthma?

Asthma is caused by inflammation of the airways. These are the small tubes, called bronchi, which carry air in and out of the lungs. If you have asthma, the bronchi will be inflamed and more sensitive than normal.

Asthma can start at any age, but it most commonly starts in childhood. At least 1 in 10 children, and 1 in 20 adults, have asthma.

In an asthma attack the muscles of the air passages in the lungs go into spasm and the linings of the airways swell. As a result, the airways become narrowed and breathing becomes difficult.

## What causes asthma in children?

In young pre-school children, wheezing is usually brought on by a viral infection – causing a cold, ear or throat infection. Some people call this ‘viral-induced wheeze’ or ‘wheezy bronchitis’, whilst others call it asthma. Most children will grow out of it, as they get to school age.

In older children, viruses are still the commonest cause of wheezing. But other specific triggers may also cause an asthma attack such as:

- ⌘ an allergy eg animals
- ⌘ pollens and mould particularly in hayfever season
- ⌘ cigarette smoke
- ⌘ extremes of temperature
- ⌘ stress
- ⌘ exercise (However, sport and exercise are good for you if you have asthma. If necessary, an inhaler can be used before exercise to prevent symptoms from developing)

## Your child MAY BE having an asthma attack if any of the following happens:

- ⌘ Their reliever isn't helping or lasting over four hours
- ⌘ Their symptoms are getting worse (cough, breathlessness, wheeze or tight chest)
- ⌘ They are too breathless or it's difficult to speak, eat or sleep
- ⌘ Their breathing may get faster and they feel like they can't get your breath in properly
- ⌘ Young children may complain of a tummy ache.

## What to do if your child has an asthma attack:

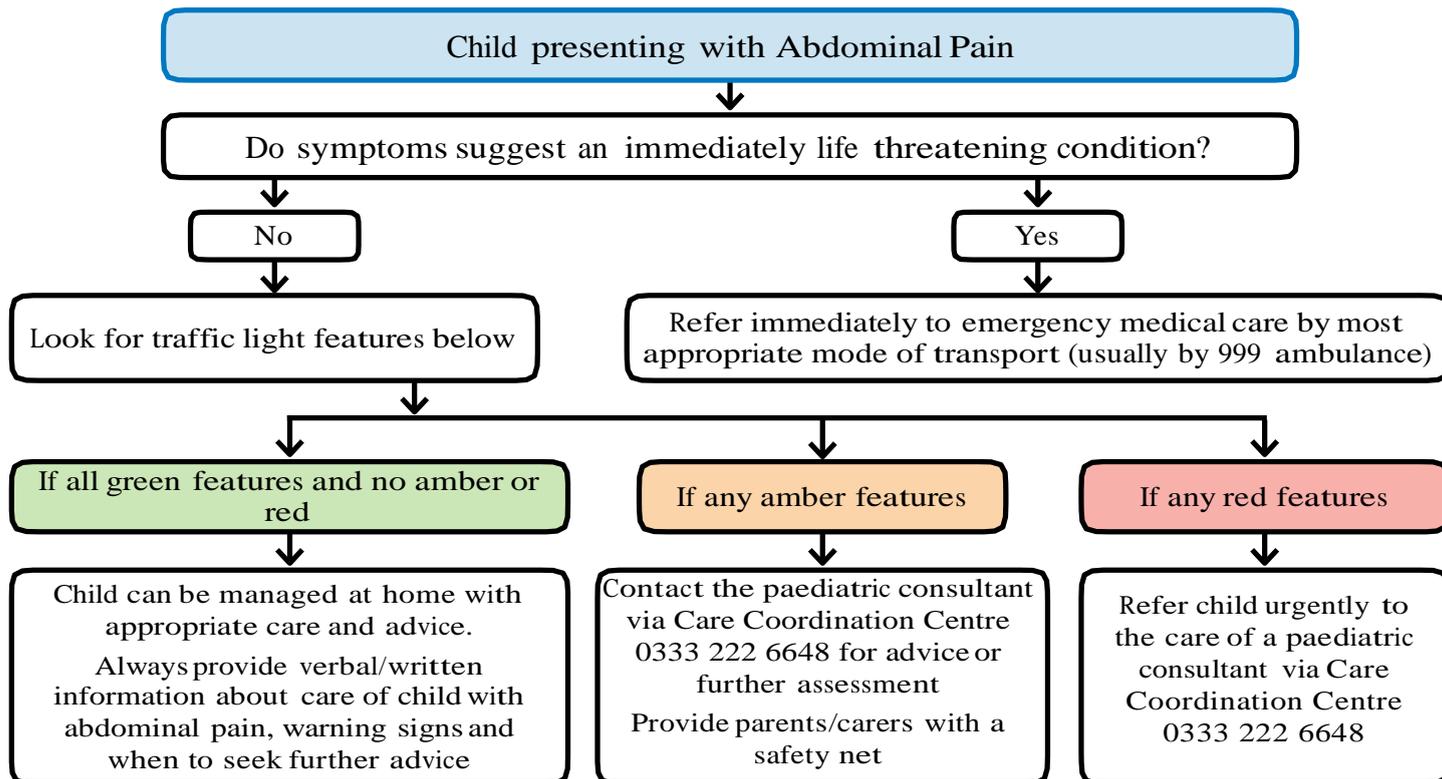
1. Give your child one to two puffs of their reliever inhaler (usually blue), immediately – use a spacer if they need it.
2. Get your child to sit down and try to take slow, steady breaths. Keep them calm and reassure them
3. If they do not start to feel better, give them two puffs of their reliever inhaler (one puff at a time) every two minutes. They can take up to ten puffs
4. If they do not feel better after taking their inhaler as above, or if you are worried at any time, call 999.
5. If an ambulance does not arrive within 10 minutes and they are still feeling unwell, repeat step 3.

If your child's symptoms improve and you do not need to call 999, you still need to take them to see a doctor or asthma nurse within 24 hours of an asthma attack.

Most people who have asthma attacks will have warning signs for a few days before the attack. These include having to use the blue reliever inhaler more often; changes in peak flow meter readings, and increased symptoms, such as waking up in the night. Don't ignore these warning signs, as they indicate that your child's asthma control is poor and they risk having a severe attack.

# Clinical Assessment Tool

## Abdominal Pain



	Green	Amber	Red
Activity	Active/responds normally to social cues		Drowsy/ no response to social cues
Respiratory	Respiratory Rate Normal (RR) Infant 40 Toddler 35 Pre-school 31 School age 27 Sats 95%		Respiratory rate > 60/minute Sats < 92%
Circulation and hydration	CRT < 2 seconds Heart rate normal Infant 120-170 Toddler 80-110 Pre-school 70-110 School age 70-110	CRT 2-3 seconds	CRT > 3 seconds
Other		Fever (see separate guide) Abdominal distension Sexually active/missed period Palpable abdominal mass Localised pain Jaundice	Abdominal guarding/rigidity Bile (green) stained vomit Blood stained vomit "Red currant jelly" stool Trauma associated Acute testicular pain Severe/increasing pain

NB. Broad guidance as differential diagnosis very wide depending on age.

This guidance is written in the following context

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively use BTS Guidelines and NHS evidence. 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 guardian or carer.

# Signs and Symptoms of Specific Illnesses

Common causes of Abdominal Pain by Age

<2yr	2 to 12yr	12 to 16 years
Gastroenteritis	Gastroenteritis	Mesenteric adenitis
Constipation	Mesenteric adenitis	Acute appendicitis
Intussusception	Constipation	Menstruation
Infantile colic	UTI	Mittelschmerz
UTI	Onset of menstruation	Ovarian Cyst Torsion
Incarcerated Inguinal Hernia	Psychogenic	UTI
Trauma	Trauma	Pregnancy
Pneumonia	Pneumonia	Ectopic Pregnancy
Diabetes	Diabetes	Testicular Torsion
		Psychogenic trauma
		Pneumonia
		Diabetes

Diagnosis to be considered	Symptoms and signs in conjunction with abdominal pain
<b>Gastroenteritis</b>	Vomiting Diarrhoea (do not exclude other conditions eg intussusception, pelvic appendicitis, pelvic abscess and inflammatory bowel disease)
<b>Intestinal obstruction eg Intussusception or volvulus</b>	Bile stained vomiting Colicky abdominal pain Absence of normal stolling/flatus Abdominal distension Increased bowel sounds Visible distended loops of bowel Visible peristalsis Scars Swellings at the site of hernial orifices and of the external genitalia Stool containing blood mixed with mucus
<b>Infective diarrhoea</b>	Blood mixed with stools – ask about travel history and recent anti-biotic therapy
<b>Inflammatory bowel disease</b>	Blood in stools
<b>Midgut volvulus (shocked child)</b>	Blood in stools
<b>Henoch schonlein purpura</b>	Blood in stools
<b>Haemolytic uremic syndrome</b>	Blood in stools
<b>Anorexia</b>	Loss of appetite
<b>Lower lobe pneumonia</b>	Fever Cough Tachypnoea Desaturation
<b>Poisoning</b>	Ask about history of possible ingestions and what drugs and other toxic agents are available at home
<b>Irreducible inguinal hernia</b>	Examine inguinoscrotal region

<b>Torsion of the testis</b>	This is a surgical emergency and if suspected the appropriate surgeon should be consulted immediately
<b>Jaundice</b>	Hepatitis may present with pain due to liver swelling
<b>Urinary Tract Infection</b>	Routine urine analysis for children presenting with abdominal pain
<b>Bites and stings</b>	Ask about possibly bites and stings. Adder envenomation can result in abdominal pain and vomiting.
<b>Peritonitis</b>	<p>refusal/inability to walk</p> <p>slow walk/stooped forward</p> <p>pain on coughing or jolting</p> <p>lying motionless</p> <p>decreased/absent abdominal wall movements with respiration</p> <p>abdominal distention</p> <p>abdominal tenderness – localised/generalised</p> <p>abdominal guarding/rigidity</p> <p>percussion tenderness</p> <p>palpable abdominal mass (see question below)</p> <p>bowel sounds – absent/decreased (peritonitis)</p> <p>associated non-specific signs – tachycardia, fever</p>
<b>Constipation</b>	<p>infrequent bowel activity</p> <p>Foul smelling wind and stools</p> <p>Excessive flatulence</p> <p>Irregular stool texture</p> <p>Passing occasional enormous stools or frequent small pellets</p> <p>Withholding or straining to stop passage of stools</p> <p>Soiling or overflow</p> <p>Abdominal distension</p> <p>Poor appetite</p> <p>Lack of energy</p> <p>Unhappy, angry or irritable mood and general malaise.</p>
<b>If patient is post-menarchal female</b>	<p>Suggest pregnancy test</p> <p>Consider ectopic pregnancy, pelvic inflammatory disease or other STD.</p> <p>Other gynaecological problems</p> <p>Mittelschmerz</p> <p>torsion of the ovary</p> <p>pelvic inflammatory disease</p> <p>imperforate hymen with hydrometrocolpos.</p>
<b>Known congenital or pre-existing condition</b>	<p>Previous abdominal surgery (adhesions)</p> <p>Nephrotic syndrome (primary peritonitis)</p> <p>Mediterranean background (familial mediterranean fever)</p> <p>Hereditary spherocytosis (cholethiasis)</p> <p>Cystic fibrosis (meconium ileus equivalent)</p> <p>Cystinuria</p> <p>Porphyria.</p>

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# Abdominal Pain Advice Sheet

Name of Child ..... Age ..... Date / Time advice given .....

Further advice / Follow up .....

Name of Professional ..... Signature of Professional .....

## How is your child?



**Red**

- Unresponsive
- Rash that does not disappear using the tumbler test
- Green or blood stained vomit
- Increasing sleepiness
- Severe or increasing pain

**You need urgent help**  
please phone 999 or  
go straight to the  
nearest Accident and  
Emergency Dept.



**Amber**

- Increased thirstiness
- Weeing more or less than normal
- Pain not controlled by regular painkillers
- Swollen tummy
- Yellow skin or eyes
- Blood in their poo or wee
- Not being as active or mobile as usual

**You need to see or  
speak to a nurse or  
doctor today.**  
Please ring your GP  
surgery or call NHS 111



**Green**

- If none of the above factors are present

**Self Care.**  
Using the advice  
overleaf you can  
provide the care your  
child needs at home

## Some useful phone numbers and information



**GP Surgery**  
(make a note of  
number here)

**NHS 111**

**dial 111**

available 24 hours –  
7 days a week

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# Abdominal Pain Advice Sheet

## About abdominal pain in children

There are many health problems that can cause stomach pain for children, including:

- ⌘ Bowel (gut) problems – constipation, colic or irritable bowel
- ⌘ Infections – gastroenteritis, kidney or bladder infections, or infections in other parts of the body like the ear or chest
- ⌘ Food-related problems – too much food, food poisoning or food allergies
- ⌘ Problems outside the abdomen – muscle strain or migraine
- ⌘ Surgical problems – appendicitis, bowel obstruction or intussusception (telescoping of part of the gut). Suspect appendicitis if pain low on the right side, walks bent over, won't hop or jump, and prefers to lie still.
- ⌘ Period pain – some girls can have pain before their periods start
- ⌘ Poisoning – such as spider bites, eating soap or smoking.
- ⌘ The most common cause of recurrent stomach aches is stress. Over 10% of children have them. The pain occurs in the pit of the stomach or near the belly button. The pain is mild but real

## How can I look after my child?

- ⌘ Reassure the child and try to help them rest.
- ⌘ If they are not being sick, try giving them paediatric paracetamol oral suspension. Avoid giving aspirin.
- ⌘ Help your child drink plenty of clear fluids such as cooled boiled water or juice.
- ⌘ Do not push your child to eat if they feel unwell.
- ⌘ If your child is hungry, offer bland food such as crackers, rice, bananas or toast.
- ⌘ Place a gently heated wheat bag on your child's tummy or run a warm bath for them.

## Things to remember

- ⌘ Many children with stomach pain get better in hours or days without special treatment and often no cause can be found.
- ⌘ Sometimes the cause becomes more obvious with time and treatment can be started.
- ⌘ If pain or other problems persist, see your doctor.

# The Big 6