

**Child presenting with bronchiolitis: Assess and look for life threatening signs and symptoms, if any RED features call Paediatrician IF REQUIRES IMMEDIATE REUSCITATION DIAL 999**

**Traffic light system of signs and symptoms for identifying severity of illness**

	Green – low risk	Amber – intermediate risk	Red – high risk
<b>Activity</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 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>Skin</b>	<ul style="list-style-type: none"> <li>Capillary refill &lt;2 secs</li> <li>Normal colour skin, lips and tongue</li> <li>Moist Mucous Membranes</li> </ul>	<ul style="list-style-type: none"> <li>Capillary refill 2-3 secs</li> <li>Pale/ mottled</li> <li>Pallor colour reported by parent/ carer</li> <li>Cool peripheries</li> </ul>	<ul style="list-style-type: none"> <li>Capillary refill &gt;3 secs</li> <li>Pale/ Mottled/ Ashen blue</li> <li>Cyanotic lips and tongue</li> </ul>
<b>Respiratory rate</b>	<ul style="list-style-type: none"> <li>&lt;12m: &lt;50 breaths/ min</li> <li>&gt;12m: &lt;40 breaths/ min</li> <li>Mild respiratory distress</li> </ul>	<ul style="list-style-type: none"> <li>&lt;12m: 50-70 breaths/min</li> <li>&gt;12m: 40-60 breaths/min</li> <li>Tachypnoea</li> </ul>	<ul style="list-style-type: none"> <li>&lt;12 m: &gt;70 breaths/min</li> <li>&gt;12 m: &gt;60 breaths/min</li> <li>Significant respiratory distress</li> </ul>
<b>O2 sats in air*</b>	<ul style="list-style-type: none"> <li>95% or above</li> </ul>	<ul style="list-style-type: none"> <li>92-94%</li> </ul>	<ul style="list-style-type: none"> <li>&lt;92%</li> </ul>
<b>Chest recession</b>	<ul style="list-style-type: none"> <li>None or mild</li> </ul>	<ul style="list-style-type: none"> <li>Moderate</li> </ul>	<ul style="list-style-type: none"> <li>Severe</li> </ul>
<b>Nasal flaring</b>	<ul style="list-style-type: none"> <li>Absent</li> </ul>	<ul style="list-style-type: none"> <li>May be present</li> </ul>	<ul style="list-style-type: none"> <li>Present</li> </ul>
<b>Grunting</b>	<ul style="list-style-type: none"> <li>Absent</li> </ul>	<ul style="list-style-type: none"> <li>Absent</li> </ul>	<ul style="list-style-type: none"> <li>Present</li> </ul>
<b>Apnoeas</b>	<ul style="list-style-type: none"> <li>Absent</li> </ul>	<ul style="list-style-type: none"> <li>Absent</li> </ul>	<ul style="list-style-type: none"> <li>Yes- 10-15 secs or shorter if with sudden decrease in sats, bradycardia or central cyanosis</li> </ul>
<b>Feeding/hydration</b> <small>*check usual volume is not 'overfeeding.' Base calculations on normal requirements 150ml/kg/day 100ml/kg/day &gt;6m</small>	<ul style="list-style-type: none"> <li>Tolerating 75% of fluid</li> <li>Occasional cough induced vomit</li> </ul>	<ul style="list-style-type: none"> <li>50-75% fluid intake over 3-4 feeds</li> <li>Cough induced vomiting</li> <li>Reduced urine output</li> </ul>	<ul style="list-style-type: none"> <li>&lt;50% fluid intake over 2-3 feeds</li> <li>Cough induced vomiting frequently</li> <li>Significantly reduced urine output</li> </ul>

Age	Resp Rate	Heart Rate	Systolic BP
Neonate <4w	40-60	120-160	>60
Infant <1 y	30-40	110-160	70-90
Toddler 1-2 yrs	25-35	100-150	75-95
2-5 yrs	25-30	95-140	85-100

<ul style="list-style-type: none"> <li>Pre-existing lung disease</li> <li>Haemodynamically significant congenital heart disease</li> <li>Age &lt;12 weeks</li> <li>Immunocompromised</li> <li>Premature birth particularly &lt;32 weeks</li> <li>Neuromuscular disorders</li> </ul>
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**If all green features and no amber or red**

- Send Home
- Give appropriate guidance and safety net advice
- Give [bronchiolitis Advice Sheet](#)
- Explain cough may last 4 weeks
- If green plus risk factors for severe disease (see box on left) [consider referral to CCN](#) for Hospital at Home care

**If any amber features and no red**

- Consider same day review either in practice or if after 18:00 at Out of Hours
- Give [bronchiolitis Advice Sheet](#)
- If early in course of illness or multiple amber boxes consider [referral to CCN](#) for Hospital at Home care
- If you feel child is deteriorating, will not maintain hydration or has risk factors for severe disease (see box on left) discuss with Paediatrician on call

**If any red features**

- Bleep Paediatrician On call
- Consider appropriate means of transport
- If appropriate commence relevant treatment to stabilise child for transfer
- Consider starting high flow oxygen support
- Send relevant documentation

### Signs and symptoms of bronchiolitis can include:

- Rhinorrhoea
- Cough
- Poor Feeding
- Bronchiolitis season
- Vomiting
- Pyrexia
- Respiratory distress
- Chesty cough
- Increased work of breathing
- Apnoea
- Inspiratory crackles +/- wheeze
- Cyanosis
- Head bobbing

### Bronchiolitis Top Tips

#### Length of illness

- Natural course of illness peaks at 3-4 days.
- If child presents within first 1-3 days condition is likely to worsen.
- If low risk consider reviewing the next day
- Illness usually lasts 7-14 days.
- Cough will last a number of weeks

#### Treatments NOT recommended for infants with bronchiolitis

- Antibiotics
- Inhaled beta2 agonist bronchodilators (only consider if older with predominant wheeze and atopic background)
- Inhaled ipratropium bromide
- Oral systemic corticosteroids
- Inhaled corticosteroids

#### Measuring O2 Saturations

- Remember a saturation probe needs to cover a child's finger or toe with a good seal.
- If there is a large gap it will underestimate the child's saturations.
- **If possible use a paediatric saturation probe in children younger than 2.**

#### Alternative Diagnosis?

- Consider alternative diagnosis if child systemically unwell or has unusual features or progression of illness (typically coryza > bronchiolitic cough > feeding / breathing difficulties)
- It is unusual for infants with bronchiolitis to appear toxic.
- A toxic infant who is drowsy, lethargic or irritable, pale, mottled and tachycardic requires immediate treatment.
- Careful evaluation for other causes should be undertaken before making a diagnosis of bronchiolitis

#### Consider Paediatric Urgent Care Pathway

Alternatives to hospital admission when GPs are considering referral:

- Oxford Paediatric Advice/Referral Line Tel: 01865 227533, Option 1 for HGH and Option 2 for JRH.
- If no response Tel: 01865 741166, Bleep 9403 for HGH or 1711/4734 for JRH Paediatrician on call
- [Children's Community Nursing \(CCN\) Team](#) via single point of access Tel: 01865 902700

#### Useful numbers for clinicians in the community

**John Radcliffe Hospital** Tel: 01865 741166  
**Horton General Hospital** Tel: 01295 275500  
**Royal Berkshire Hospital** Tel: 0118 322 5111  
**Great Western Hospital** Tel: 01793 604020  
**Stoke Mandeville Hospital** Tel: 01296 315000