

# Bronchiolitis Pathway

Clinical Assessment / Management Tool for Children Younger than 1 year old with suspected Bronchiolitis

May 2015 (2) Refreshed Version



## Management - Primary Care and Community Settings

Patient Presents

- Suspected Bronchiolitis?**
- Snuffly Nose
  - Chesty Cough
  - Poor feeding
  - Vomiting
  - Pyrexia
  - Increased work of breathing
  - Head bobbing
  - Cyanosis
  - Bronchiolitis Season
  - Inspiratory crackles +/- wheeze

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

Consider differential diagnosis if:  
Temp > 38°C (sepsis) or sweaty (cardiac) or unusual features of illness

- Yes**
- Refer immediately to emergency care by 999
  - Alert Paediatrician-On-Call\*
  - Stay with child whilst waiting and give High-Flow Oxygen support

Table 1

Clinical Findings	Green - low risk	Amber - intermediate risk	Red - high risk
<b>Behaviour</b>	• Alert • Normal	• Irritable • Decreased activity	• Unable to rouse • No response to social cues • Appears ill to a healthcare professional
<b>Skin</b>	• CRT < 2 secs • Normal colour skin, lips and tongue	• CRT 2-3 secs • Pallor colour reported by parent/carer	• CRT > 3 secs • Cyanotic lips and tongue
<b>Respiratory Rate</b>	• Under 12mths <50 breaths/minute • Mild respiratory distress	• Increased work of breathing • All ages > 60 breaths /minute	• All ages > 70 breaths/minute • Respiratory distress
<b>O<sub>2</sub> 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 - Tolerating 75% of fluid • Occasional cough induced vomiting	• 50-75% fluid intake over 3-4 feeds • Reduced urine output	• <50% fluid intake over 2-3 feeds / 12 hours or appears dehydrated • Significantly reduced urine output
<b>Apnoeas</b>	• Absent	• Absent	• Yes
<b>Other</b>	• Satisfactory Social Circumstance	• Pre-existing lung condition • Congenital Heart Disease • Re-attendance • Neuromuscular weakness	• Immunocompromised • Age <6 weeks (corrected) • Prematurity

Table 2 Normal Paediatric Values:

(APLS <sup>1</sup> )	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

**999**

**Also think about...**

Bronchiolitic symptoms often deteriorate up to Day 3. This needs to be considered in those patients with other high risk factors.

**Green Action**

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.

**Amber Action**

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

**Urgent Action**

Consider commencing high flow oxygen support  
Refer immediately to emergency care by 999  
Alert Paediatrician-On-Call\*  
Commence relevant treatment to stabilise child for transfer  
Send relevant documentation

**Management Plan**

- Provide the parent/carer with a safety net: use the 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 and send any relevant documentation

**Hospital Emergency Department / Paediatric Unit**

GMC Best Practice recommends: Record your findings (See "Good Medical Practice" <http://bit.ly/1DPX12b>)  
\*\*NB: Oximetry is an important part of the assessment and should be measured with an oximeter appropriately designed for infants if available.



\* Please see overleaf for telephone numbers

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.

First Draft Version: May 2011 Date of this Refreshed Version: Jan 2015 (from Nov 2013) Review Date: Jan 2017.

## 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](http://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**

## With many thanks to all those who have supported the development of our pathways including:

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Amanda Wood	Dr Debbie Pullen	Dr Stuart Nicholls	Karen Hearnden	Melissa Hancorn
Carole Perry	Dr Farhana Damda	Dr Tim Fooks	Kate Eades	Moirra Gardiner
Carolyn Phillips	Dr Fiona Weir	Dr Tim Taylor	Kath Evans	Nicola Mundy
Catherine Holroyd	Dr Helen Milne	Dr Venkat Reddy	Kathy Walker	Patricia Breach
Chris Morris	Dr Neemisha Jain	Dr Vijay Iyer	Katie Shedden	Rebecca C 'Aileta
Christine McDermott	Dr Kamal Khoobarry	Fiona Mackison	Kim Morgan	Rosie Courtney
Claire O'Callaghan	Dr Kate Andrews	Fiona Wookey	Laura Robertson	Rosie Rowlands
Clare Lyons Amos	Dr Maggie Wearmouth	Gill Cunningham	Lois Pendlebury	Susan Nicholls
Denise Matthams	Dr Mike Linney	Jane Mulcahy	Lois Peters	Sue Pumphrey
Dr Amit Bhargava	Dr Mwape Kabole	Jason Gray	Lorraine Mulroney	Wang Cheung
Dr Ann Corkery	Dr Nelly Ninis	Jeannie Baumann	Lucie Gamman	
Dr Anna Mathew	Dr Oli Rahman	Joanna Hodginkson		

Based on Scottish Intercollegiate Guidelines (SIGN) 2006 Guideline No. 91 Bronchiolitis in children - [www.sign.ac.uk/guidelines/fulltext/91/index.html](http://www.sign.ac.uk/guidelines/fulltext/91/index.html) and with consideration to NICE Consultation on new draft guideline "Bronchiolitis: diagnosis and management of bronchiolitis in children" (as at 5th January 2015 and in progress)

Dear Colleague,

I would like to introduce you to the **Bronchiolitis Pathway Clinical Assessment / Management Tool for Children Younger than 1 year old - Primary Care and Community Settings**. This is one of a series of urgent care pathways developed by the Children and Young People's Network for the most common conditions requiring primary and / or acute care.

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 Paediatrics and Emergency Medicine colleagues for their support in finalising these versions for circulation.

The professionals were all working towards four main objectives:

- To promote **evidence-based** assessment and management of unwell children and young people. The pathway tools aim to ensure that accurate and prompt advice is available to assist health professionals to make safe decisions that can be taken quickly.
- To build **consistency** across the Network area, 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 care
- To build the **confidence/resilience** of parents to manage their child's illness which should be increased with the consistent advice offered for unwell children and young people accessing all local NHS services in an emergency or urgent scenario.

This pathway is comprised of three elements: parental advice, a pathway for use in primary care and community settings and a pathway for use in acute (hospital) settings. Each part has been designed to be compatible with existing pathways in the acute sector and should be particularly valuable for use in Hospital Emergency Departments and primary care settings.

It is an expectation that these pathways will not only provide a guide for clinicians faced with an unwell child, but will also be used in training and disseminated across all relevant departments and team-members.

We hope you will find this a quality tool to be used within your practice. We look forward to hearing back on how the consistency of assessment and management of these children and the overall quality of practice and patient experience has been improved with this relatively simple but whole system initiative.

To feedback or for further information including how to obtain more copies of this document we have one mailbox for these queries on behalf of the South East Coast Strategic Clinical Networks area (Kent, Surrey and Sussex). Please email: [CWSCCG.cypSECpathways@nhs.net](mailto:CWSCCG.cypSECpathways@nhs.net)

May we commend it to your use.

Yours sincerely

## The Network

### Glossary of Terms and Abbreviations

<b>CPD</b>	Continuous Professional Development	<b>HR</b>	Heart Rate
<b>CRT</b>	Capillary Refill Time	<b>O<sub>2</sub> SATS</b>	Oxygen Saturation in Air
<b>ED</b>	Hospital Emergency Department	<b>RR</b>	Respiratory Rate

