Bronchiolitis Pathway

Clinical Assessment / Management Tool for Children Younger than 1 year old with suspected Bronchiolitis **Management - Acute Setting**



Yes



Patient Presents

Suspected Bronchiolitis?

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

Complete PEWS for all patients

Do the symptoms and/or signs suggest an immediately life threatening illness to triage nurse?

Consider differential diagnosis if - temp ≥38°C (sepsis) or sweatv (cardiac) or unusual features of illness **Contact Lead ED Doctor**

Move to Resuscitation Area

2222 paediatric emergency call

Risk factors for severe disease

- Pre-existing lung condition Immunocompromised Congenital Heart Disease
- Age <6 weeks (corrected) Re-attendance Prematurity <35 weeks Neuromuscular weakness

| Clinical Findings | Green - low risk | Amber - intermediate risk | Red - high risk |
|------------------------------|--|---|--|
| Behaviour | Alert Normal | Irritable Decreased activity Reduced response to socia No smile | Unable to rouse No response to social cues Appears ill to a healthcare professional Wakes only with prolonged stimulation Weak or continuous cry |
| Skin | CRT < 2 secs Normal colour skin, lips and tongue | CRT 2-3 secs Cool peripheries | • CRT > 3 secs • Grey/Mottled • Cyanosis |
| Respiratory Rate | • <50 breaths/minute | • 50-70 breaths/minute | > 70 breaths/minuteApnoeas |
| O ₂ Sats in air** | • 92% or above | • 90-91% | • <90% |
| Chest Recession | • Mild | Moderate | • Severe |
| Nasal Flaring | Absent | May be present | • Present |
| Grunting | Absent | • Absent | • Present |
| Feeding Hydration | 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 |
| Other | | Has a risk factor for severe disease (see above) Additional parent/carer support required | |

For all patients, continue monitoring following PEWS Chart recommendation

Also think about...

Green Action

Send Home:

Babies with bronchiolitis often deteriorate up to Day 3. This needs to be considered in those patients with risk factors for severe disease

Amber Actions

Advice from Paeds/PEM Cons should be sought

- Consider a capillary gas
- Do they need nasal cannula (Sats <92% awake/mod to severe resp
- Do they need NG feeds (not meeting 2/3rd fluid requirements orally) → if not able to tolerate consider IVs

Admission to Paeds SDEC/In-patients

Immediate Actions

Most senior ED clinician to see patient

Paediatric Assessment – in PED Consider 2222 call

?Hi-Flow Oxygen Nasal Canula O2 (HFNCO2)

- Failing to achieve SpO2 >92% on 21/min of O2 via low flow nasal cannula
- Severe work of breathing
- Increased respiratory rate from baseline
- Apnoea's
- Evolving respiratory acidosis



? Ventilation - ensure 2222 call placed

- FiO2 requirement ≥0.6 to maintain SpO2 >90%
- Severe work of breathing
- Lethargy / reduced level of consciousness
- Failure to clear CO2
- Persistent apnoea's requiring bagging
- Lack of clinical improvement/deterioration in HFNCO2

This guidance was written in collaboration with the SE Coast SCN and healthcare professionals in Wessex. It has been edited by the CHT PED team.

refer them to the patient advice sheet.

Provide appropriate and clear guidance to the parent / carer and

Confirm they are comfortable with the decisions / advice given.

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.