

Regional Bronchiolitis Pathway

Description	Regional Bronchiolitis Pathway		
Author(s) (names and job titles)	Aravind Kashyap Consultant Paediatric Intensivist GNCH Jonathan Grimbley Paediatric Consultant JCUH Anna Brough Paediatric Consultant GNCH		
Main contact email (Substantive staff member, to be used for future guideline review)	Anna-Mary.brough@nhs.net		
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1 Version control

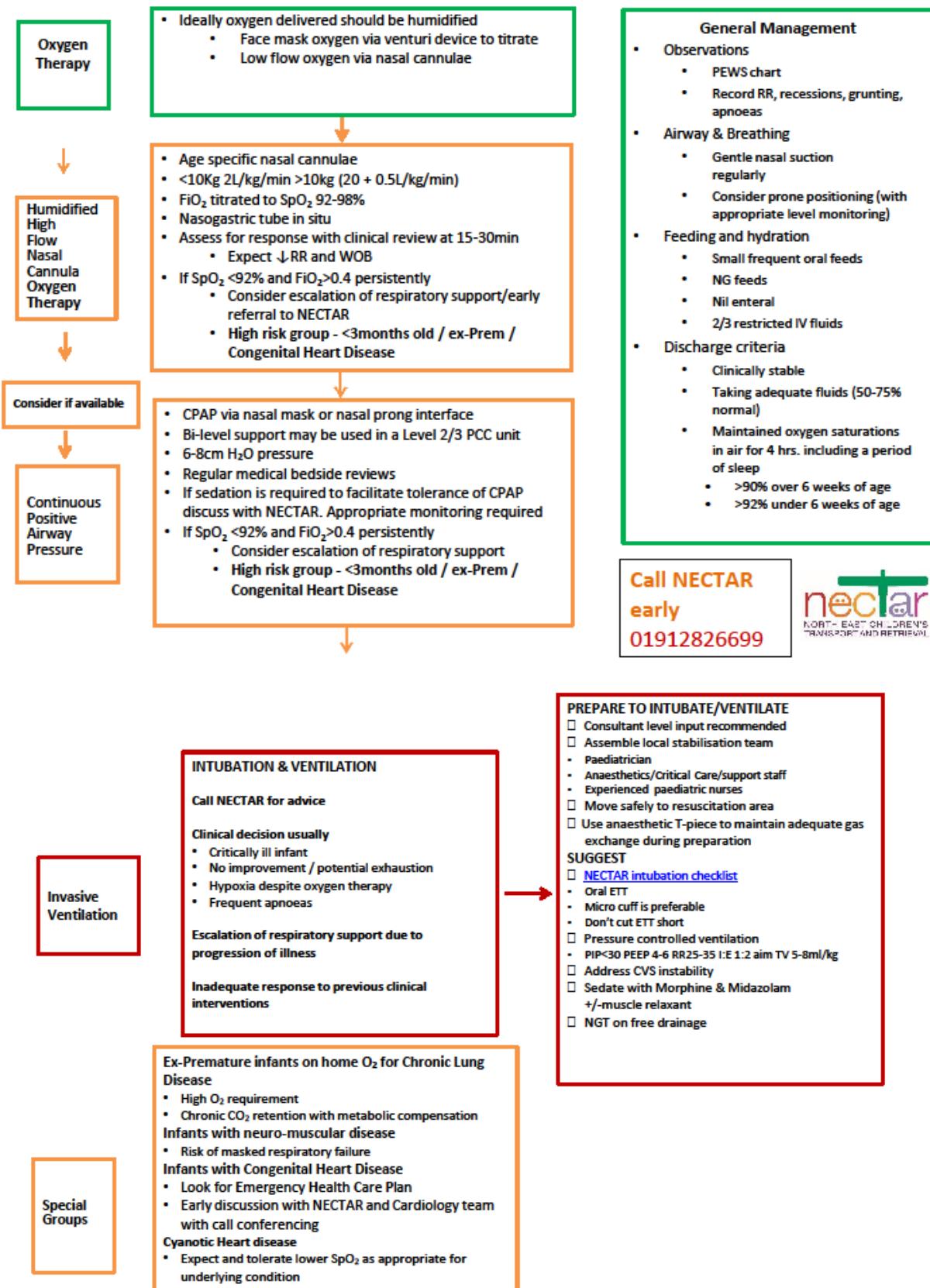
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Flow Chart

NORTH EAST NORTH CUMBRIA REGIONAL PATHWAY – BRONCHIOLITIS IN INFANTS



3 Introduction

Bronchiolitis is a common seasonal illness affecting children aged less than 2 years of age. No specific investigation is indicated, and management is supportive. Some infants are at higher risk of severe disease and should have a lower threshold for admission.

4 Scope and purpose

This is a guideline to aid in the assessment and management of acute bronchiolitis in infants (aged <2 years) for paediatric and emergency department medical staff and nurse practitioners across the NENC area.

5 Definitions

6 Details of policy/procedure to be followed.

Bronchiolitis is:

- A seasonal viral illness occurring in autumn to late spring.
- Affects infants and children less than 18 months of age.
- Caused by RSV in 70-80% of cases with the remainder caused by parainfluenza, influenza, metapneumovirus and adenovirus or other viruses.

Clinical Presentation

History	Examination
Coryzal symptoms Dry, wheezy cough Difficulty breathing Apnoea (esp. in infants <6 weeks old) Poor feeding	Low SpO ₂ Tachypnoea Increased work of breathing Widespread fine inspiratory crackles Wheeze* Fever >38°C not usually a feature**

* Wheeze may not always be present

** Fever >39°C should prompt careful examination for an alternative cause before making a diagnosis of bronchiolitis.

High Risk Infants

Some infants are at higher risk of more severe bronchiolitis and should therefore have a lower threshold for admission:

- Infants <6 weeks
- Ex-preterm infants (especially those with chronic lung disease)
- Congenital cardiac disease

- Immunodeficiency
- Neuromuscular condition

Admission criteria

Any one of:

- Severe respiratory distress
- SpO₂ <90% (SpO₂ 90-94% should prompt further assessment/observation period)
- Respiratory rate >60/min
- Feeding <50% of normal or concerns about hydration
- History of apnoea
- Appears unwell.

In addition, social circumstances, geography and duration of illness may also need to be taken into account. The illness peaks in severity around day 4-5 – infants who have amber features but are only 3 days into their illness may need admission.

Management

Nursing care

- The cornerstone of bronchiolitis treatment is good supportive nursing care with minimal handling, supplementation of oxygen, feeding and fluids as required.

Supplemental oxygen

- Oxygen saturations should be maintained >92% if using supplemental O₂
 - Consider appropriate delivery options:
 - Nasal cannula with dry O₂ (low flow oxygen, direct from wall source)
 - Nasal cannula with humidified O₂
 - Nasal cannula AirVo – air or O₂, flow dependent on weight

Nutrition

- Frequent small oral feeds in most cases is sufficient, ensuring good urine output.
- Nasogastric feeding may be required if intake is less than 50% of requirements and respiratory distress is moderate.
- Intravenous fluids may be appropriate for severe respiratory distress and/or high supplemental oxygen requirement.

Nasal suction

- Consider if respiratory distress appears due to nasal obstruction.

Indications for PICU consideration

- Failure to maintain oxygen saturations >92% with increasing amounts of supplemental oxygen.
- Deteriorating respiratory status with signs of increasing respiratory distress and/or exhaustion.
- Recurrent apnoea.

Discharge

- Children who have required supplemental oxygen should have monitoring continued for a period of time once oxygen has been discontinued, including a period of sleep, to ensure clinical stability prior to discharge.
- Infants with oxygen saturations >90% in room air in the recovery phase of the illness may be considered for discharge.

- Infants who have been hospitalised should be able to maintain adequate oral intake, prior to discharge.
- Infants must appear well and have had no recent apnoea.

Advice to parents

- Cough may continue for 2-4 weeks.
- No follow-up required routinely.
- Avoid exposure to cigarette smoke.
- Give written parent advice leaflet: see healthier together link –: [Bronchiolitis and RSV :: North East and North Cumbria Healthier Together \(nenc-healthier-together.nhs.uk\)](http://Bronchiolitis and RSV :: North East and North Cumbria Healthier Together (nenc-healthier-together.nhs.uk))

7 Communication and training plans

This document will be available on the ODN website. It will be shared with the regions nurse educator's and reviewed regularly through the PCC Network Clinical Advisory Group.

8 Process for monitoring compliance

The ODN network will review problems associated with this guideline through governance process.

9 Document review

Guideline to be reviewed after three years or sooner because of audit findings or as any changes to practice occurs.

10 References

Bronchiolitis in children: diagnosis and management NICE guideline NG9