

PART 3 (Flowcharts 1-3)

Clinical Management of Acute Exacerbations of Asthma and Wheeze

Integrated Care Pathway for Children aged 1-16 years

PLEASE USE in conjunction with Part 1 & 2 Clinical Management of Acute Exacerbations of Asthma and Wheeze Integrated Care Pathway for Children aged 1-16 years

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Ratifying Committee:	LNWHT Drugs & Therapeutics Committee
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Target Audience:	All paediatric medical and A&E staff

References

- 1. Network BTS/SIGN 141. British guideline on the management of asthma. http://www.sign.ac.uk/guidelines/fulltext/141/
- 2. Brand PL, et al. Classification and pharmacological treatment of preschool wheezing: changes since 2008. Eur Respir J 2014;43:1172-7
- 3. BNF for children 2015
- 4. J. Panickar et al., Oral Prednisolone for Preschool Children with Acute Viral-induced Wheezing, N Engl J Med 2009; Jan 22;360 (4):329-338
- 5. Bush A, Fleming L. Diagnosis and management of asthma in children. BMJ 2015;350:h996
- 6. Global Initiative on Asthma (GINA) particularly Chapter 2: http://www.ginasthma.org/local/uploads/files/GINA_Report_2015_Aug11.pdf



FLOWCHART 1: Assessment of severity and emergency treatment in children 2-16 years

Identify the severity - NB the box where the most severe feature is present



Asthma Pathway LNWHT Version 3.0 PART 3: Updated Oct 2015 - Review Oct 2017 [Working Group Dr W Muller]

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FLOWCHART 2: Assessment and management of acute asthma/wheeze in children <2 years

- Assessment of acute asthma in children less than 2 years can be difficult
- Intermittent wheezing episodes are usually due to viral infections and the response to asthma medication is inconsistent
- Consider the following differential diagnosis:
 - ✓ Pneumonia
 - ✓ Bronchiolitis
 - ✓ Aspiration pneumonitis
 - ✓ Tracheomalacia
 - ✓ Complications of underlying conditions such as congenital abnormalities
 - ✓ Foreign body inhalation



- Inhaled Salbutamol up to 10 puffs via pMDI + spacer *or* nebulised Salbutamol if severe features
- O₂ via face mask or nasal prongs to keep SpO₂ >93%
- Consider oral prednisolone (see box below)



Discuss urgently with paediatric SpR or Consultant if not responding to above treatment or if there are any life threatening features such as apnoea, bradycardia or poor respiratory effort





FLOWCHART 3: Second line treatment of severe refractory and life-threatening asthma

