

Asthma: diagnosis and chronic management in children ≤11 years

Key Facts

- Asthma in children can be challenging to diagnose and requires careful history of previous treatments for respiratory symptoms.
- Children who are usually well and ONLY wheeze when they have a viral illness should NOT be diagnosed with asthma. They have viral wheeze. Inhaled short acting beta-agonists (salbutamol) may help.

Clinical presentation

Breathlessness, wheeze, chest tightness, or cough that is:

- ✓ Worse at night and early morning
- ✓ Comes with/after exercise
- ✓ Come with allergen exposure or cold air
- ✓ Come on after taking aspirin/betablockers

Diagnosis and investigations

- ✓ A good history is more important than any test. Focus on the features above (Xrays and blood tests only helpful if another condition suspected)
- ✓ Spirometry is the gold standard for diagnosis, but rarely necessary and currently not available in Kijabe
- ✓ Trial of treatment with SABA (as needed) and 8 weeks of inhaled steroids can be used to confirm the diagnosis

Management

Any features of acute asthma?

Progressive worsening of symptoms of asthma such as SOB, DIB, cough, wheeze, tight chest, use of accessory muscles, abnormal vital signs

See separate guideline: 'Asthma – acute exacerbation in primary care' Transfer to casualty (or acute care facility) if unstable

Management of chronic stable asthma

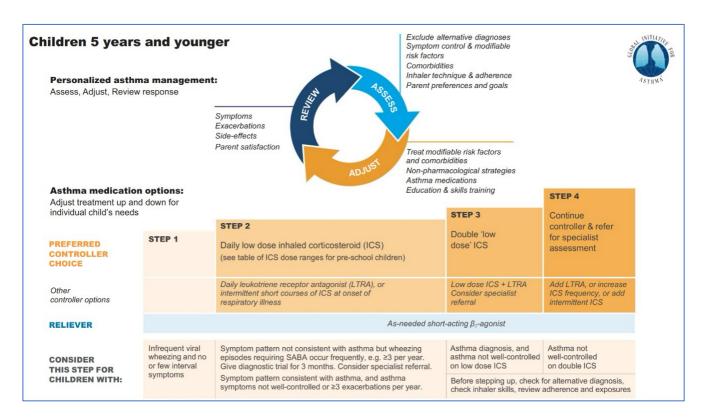
- ✓ See GINA 2021 stepwise management for children of different ages, page 2
- ✓ See information regarding medication and inhalers on page 3
- ✓ Seek OPD consultant advice before escalating to step 3
- A spacer device should **always** be used with an aerosol/MDI inhaler. Children under 10 years cannot coordinate their breathing well enough to use any other device. Use a bottle if they can't afford spacer.
- ✓ If a patient requires more than one inhaler, they should be prescribed the same type of device whenever possible
- ✓ Always check inhaler/spacer technique before escalating to the next step – see guideline 'Inhalers – types & techique'
- ✓ Prescribe inhaler doses in mcg, NOT in puffs only

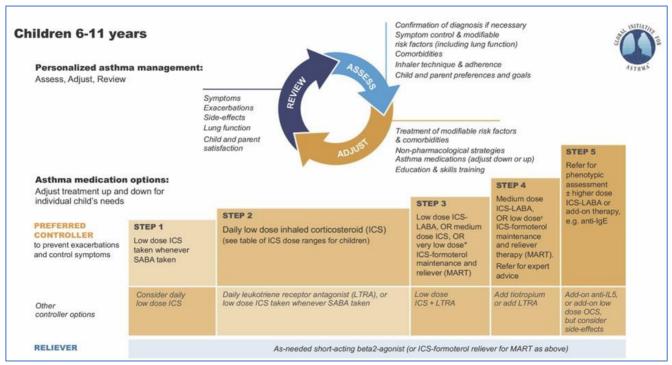
Discuss with consultant if:

- ✓ Needing to escalate to step 3
- ✓ Other CV comorbidities
- ✓ Abnormal vital signs
- ✓ Asthma not responding to reliever medication



Kijabe OPD Guidelines







Kijabe OPD Guidelines

Inhalers and asthma medication available in Kijabe pharmacy			
Class	Drug	Type of inhaler	Dose
SABA (Short acting beta-agonist)	Salbutamol 100mcg	aerosol, metred dose inhaler	200mcg as needed
SAMA (short acting muscarinic antagonist)	Ipatropium 20mcg	aerosol, metred dose inhaler	40mcg as needed
(Inhaled corticosteroid)	Beclomethasone 100mcg	aerosol, metred dose inhaler	Low dose: 200-500mcg/day Medium dose: 500-1000mcg/d High dose: >1000mcg/day
ICS+LABA (Inhaled corticosteroid and long-acting beta-agonist)	Budesonide + Formoterol 200+6 or 400+6 Budesonide + Formoterol 160/4.5mcg	aerosol, metered dose inhaler dry powder, Turbohaler	Low dose: 200-400mcg/day Medium dose: 400-800mcg/day High dose: >800mcg/day
LTRA (leukotriene receptor antagonist)	Montelukast 10mg tablet		Age 6m-6y: 4mg once daily in evening Age 6-15y: 5mg once daily in evening >15y: 10mg once daily in evening

References:

NCD Clinical Guide 2021 Asthma Primary Care International (adapted for this context and location. PCI have not been involved in, nor hold responsibility for any adaptations. Original can be found by contacting PCI: https://pci-360.com)