Management of Asthma in Primary Care – Pathway for children aged 5 to 11 years old See NG244 for full NICE/BTS/SIGN pathway for diagnosing, monitoring and managing asthma

Aim for: Any child with asthma Newly diagnosed asthma in children aged No symptoms, no limitation on Asthma considered poorly on SABA alone 5 to 11 years exercise, no asthma attacks controlled if: Not needing rescue medication Exacerbation requiring oral • steroids Frequent regular symptoms i.e. ٠ **Paediatric** With **SABA** Allow 8 to 12 weeks for using a reliever ≥3 times a week Ensure all patients have a PAAP LOW-dose ICS for symptom response after adjusting Nighttime wakening ≥1 a week (personalised asthma action plan) treatment at any step in the relief Twice daily pathway Asthma uncontrolled? Identify and address trigger factors: Assess ability to managed MART regimen □ Active or passive smoking and Consider 3-With **Paediatric** vaping Unable to manage Able to manage month trial of SABA for LOW-dose ICS Indoor and outdoor pollution MART regimen MART regimen **Oral LTRA** Seasonal factors symptom Twice daily Psychosocial factors montelukast relief **Paediatric LOW-dose** Co-morbidities MART ICS/formoterol * STOP LTRA Asthma uncontrolled CONSIDER STEP if ineffective or side-effects Taken as maintenance Patient review and monitoring: DOWN: when and reliever therapy Monitor asthma control at every symptoms are wellreview. Ask about symptoms and controlled and stable With SABA Paediatric LOW-dose ICS/LABA for ≥ 3 months check: for symptom Asthma uncontrolled Twice daily (with or without LTRA) Time off school due to asthma relief Reliever inhaler use **Paediatric** BEFORE STEPPING Asthma attacks, oral UP, CHECK: **MODERATE-** dose Asthma uncontrolled corticosteroid use Diagnosis, MART ICS/formoterol * □ Inhaler technique and adherence Adherence, Triggers Consider using a validated tool eliminated. Inhaler Taken as maintenance **Paediatric MODERATE-dose** With SABA e.g. ACT score as part of the technique and reliever therapy **ICS/LABA** review for symptom Do not routinely monitor lung relief Twice daily (with or without LTRA) function e.g. PEF Asthma Asthma uncontrolled uncontrolled Refer to specialist in asthma care (see next page)

* Off-label use of ICS/formoterol containing inhalers licensed for MART

Asthma pathway for CYP FINAL May 2025

ICS = inhaled corticosteroid; AIR = anti-inflammatory reliever therapy; MART = maintenance and reliever therapy; LTRA = leukotriene receptor antagonist; LAMA = long-acting muscarinic receptor antagonist; SABA –short-acting beta-agonist

Surrey Heartlands

Notes on inhaled medication for children aged 5 to 11 years old

Information about MART

Maintenance and Reliever Therapy (Low and moderate dose ICS/formoterol inhaler)

Used for daily maintenance therapy, and additional doses for the relief of symptoms as needed

Paediatric Low dose (metered dose):

budesonide 100-200 mcg/day

Paediatric Moderate dose (metered dose):

budesonide 300-400 mcg/day

Use is off-label in children under 12 years old. See information sheet for parents on off-label use of MART inhalers.

Recommended by NICE as evidence of benefit in children < 12 years old

Which children to consider for MART?

- Poor adherence to treatment
- Can recognise symptoms and act on them
- Confused over reliever and preventer inhalers
- Uncontrolled asthma
- Seasonal symptoms step up and down treatment as needed
- Overuse of SABA inhalers
- Able to use DPI

MART Asthma Action Plan

Prescribing considerations for patients on MART

- At initiation prescribe 2 inhalers one to use BD and one PRN
- Ensure prescribing templates allow patients to order PRN ICS/formoterol
- SABA is NOT required as a reliever, consider providing SABA plus spacer for **emergency use** if unable to activate a DPI during an acute asthma attack

Asthma attack advice for patients on MART

Take one puff every 1 to 3 minutes up to 4 puffs (8 puffs for Symbicort pMDI) If you feel worse at any point OR do not feel better after 4 puffs, call 999 for an ambulance

Referral to specialist in asthma care*

- □ Refer if diagnosis unclear, asthma uncontrolled, ≥2 courses of oral corticosteroids or had any hospital admissions due to asthma in the last 12 months
- Address trigger avoidance, inhaler technique and adherence before referral

Which children may not be suitable for MART?

- Child unable to recognise symptoms
- Lacks capacity and needs support to decide to use reliever
- Unable to understand the asthma plan
- Struggles to use DPI

Inhaler choice

- □ Use <u>NICE patient decision aid</u> to help the patient decide which inhaler is easiest to use (includes information on carbon footprint).
- Prescribe inhalers only after the patient has received training in the use of the device and can demonstrate satisfactory technique. If the patient is unable to use a device an alternative should be found.
- Provide video link to remind the patient on how to use their inhaler device.
- Prescribe the same type of device to deliver preventer and reliever treatments, if possible
- □ If using an MDI, prescribe a spacer device

Inhaled corticosteroids

- Risk of adrenal suppression in children increases with dose and duration of ICS use.
- Children receiving paediatric high dose ICS should be given a blue steroid treatment card. See <u>NICE ICS</u> <u>dose chart</u> for paediatric low, moderate and high dose ICS.
- Assess the child's overall corticosteroid exposure consider reliever doses of ICS/formoterol, nasal corticosteroids, topical corticosteroids, and courses of OCS for exacerbations.
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Patient education

- Give information on inhaler treatment, how they work, when to take them and correct technique
- □ Provide a personalised asthma action plan
- Provide advice on how to manage symptoms, triggers for asthma, how to minimise exposure to triggers and what to do in the event of an asthma attack

*Specialist in asthma care - A healthcare professional with higher training in respiratory medicine and proficiency in the management of asthma. This requires both the relevant expertise and access to the resources that enable delivery of the diagnostic and management pathways described in the <u>NICE guideline</u> recommendations.

Preferred inhalers for children aged 5 to 11 years old (see formulary for full list of options)

Inhaler		Notes (Green denotes low carbon inhaler)	Paediatric Low dose ICS
Easyhaler Budesonide 100 mcg		DPI Cost-effective option	1 puff twice daily
Pulmicort Turbohaler 100mcg	Hand and a second secon	DPI	1 puff twice daily
Clenil Modulate pMDI plus spacer 100 mcg	Ú	pMDI	1 puff twice daily

ICS containing inhalers

SABA containing inhalers (salbutamol)

Inhaler	Notes (Green denotes low carbon inhaler)	Reliever dose
Easyhaler Salbutamol 100 mcg	DPI Cost-effective option	1 -2 puffs as needed Max 8 puffs in 24 hours
Ventolin Accuhaler 200mcg	DPI	1 puff as needed Max 4 puffs in 24 hours
Salamol pMDI plus spacer 100mcg	pMDI No dose counter	1- 2 puffs as needed Max 8 puffs in 24 hours

ICS/LABA containing inhalers

Inhaler	Notes (Green denotes low carbon inhaler)	Paediatric Low dose ICS/LABA	Paediatric Moderate ICS/LABA
Fobumix Easyhaler 80/4.5 mcg	DPI Cost-effective option Contains budesonide /formoterol	1 puff twice daily	2 puffs twice daily
Symbicort Turbohaler 100/6mcg	DPI Contains budesonide /formoterol	1 puff twice daily	2 puffs twice daily
Flutiform pMDI plus spacer 50/5 mcg	pMDI Contains fluticasone /formoterol	1 puff twice daily	2 puffs twice daily
Seretide Evohaler plus spacer 50/25 mcg	pMDI Contains fluticasone /salmeterol	1 puff twice daily	2 puffs twice daily

Tips for Prescribing Inhalers

- ✓ Assess child's ability to use inhaler, let them see, touch and feel the inhaler, then describe and show them
- ✓ Prescribe inhalers by brand, so patient receives correct inhaler device
- $\checkmark\,$ Dry powder inhalers are preferred if child can use the device
- ✓ Always prescribe pMDI with a spacer
- $\checkmark\,$ Prescribe inhalers with an integral dose counter
- ✓ Prescribe the same type of device to deliver preventer and reliever treatments where more than one inhaler is needed

DPI = dry powder inhaler, pMDI = pressurised metered dose inhaler, ICS = inhaled corticosteroid; SABA = short-acting beta-agonist, LABA = long-acting beta-agonist

Preferred inhalers for children aged 5 to 11 years old (see formulary for full list of options)

ICS/formoterol inhalers for MART in children aged 5 to 11 years (all off-label)

Inhaler (all contain budesonide with formoterol)	Notes (Green denotes low carbon inhaler)	Paediatric Low dose MART	Paediatric Moderate dose MART	Reliever puffs	Maximum reliever puffs*	Maximum puffs in 24 hours
Fobumix Easyhaler 80/4.5	DPI Cost-effective choice	1 puff twice daily Or 2 puffs daily	2 puffs twice daily	1 puff as needed	4	8
Symbicort Turbohaler 100/6	DPI	1 puff twice daily Or 2 puffs daily	2 puffs twice daily	1 puff as needed	4	8
Symbicort pMDI with spacer 100/3	pMDI Only if child unable to use DPI	1 puff twice daily Or 2 puffs daily	2 puffs twice daily	2 puffs as needed	8	16

Spacers devices suitable for children aged 5 to 11 years (see formulary for full list of options)

Spacer A spacer with mouthpiece is recommended unless the paspacer with a mouthpiece	atient has difficulty using	Notes
AeroChamber Plus Flow-Vu Anti-Static with medium mask child 1-5 years	Angeneter	Child from 1 to 5 years Assess patient for suitable mask size if mask required.
AeroChamber Plus Flow-Vu Anti-Static youth 5+ years	Avera Anarder PEccentra The International	Child from 5 to 12 years
AeroChamber Plus Flow-Vu Anti-Static Adult (from 13 years)	Arrest Annoter	Use if need larger mouthpiece
Volumatic		Child from 5 years Not compatible with all pMDIs, check before prescribing

* Maximum dose of formoterol is 24 micrograms

Tips for Prescribing Spacer

- ✓ Spacers should not be regarded as interchangeable. Use the spacer device named in the Summary of Product Characteristics
- ✓ Patients using a spacer where their asthma is well-controlled should not switch between spacers.
- ✓ Different spacers may deliver different amounts of ICS, which may have implications for safety and efficacy
- ✓ Plastic spacers should be replaced at least every 12 months, but some may need changing at 6 months