

Diagnosis

There is no definitive test for asthma. Diagnosis is by clinical assessment.

- More than one of: episodic breathlessness; wheeze; cough; chest tightness.
- Nocturnal, exercise and / or allergy induced.
- Wheeze heard on auscultation.
- If asthma thought likely, then use trial of treatment (e.g. six weeks ICS) to confirm.
- Spirometry or peak flow measurements can aid diagnosis, but may need repeated for variation. Normal results do not exclude asthma.
- If diagnosis uncertain, then refer (see Box F).

Assessing control

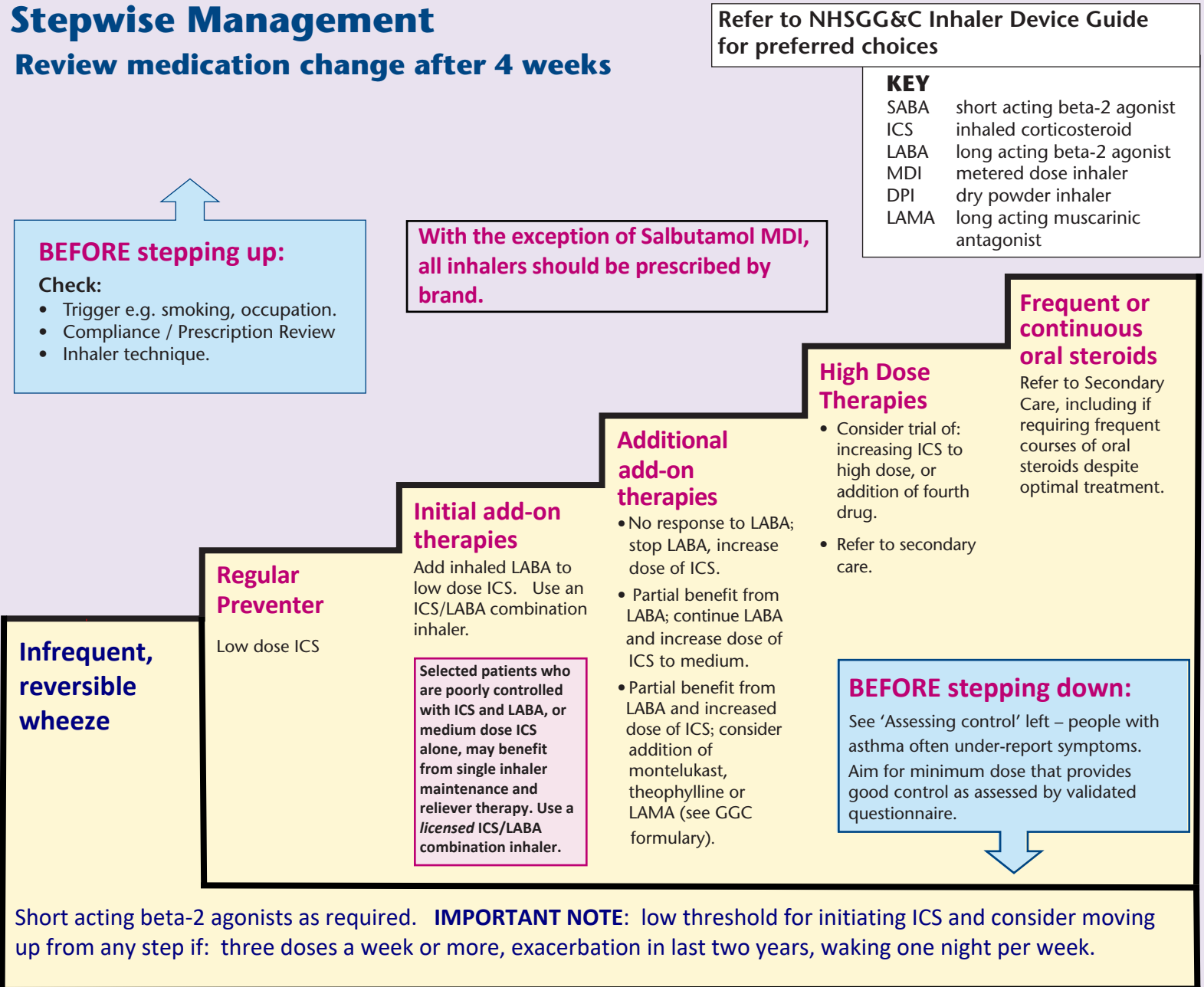
People with asthma under-report symptoms. Use a validated questionnaire, e.g.:

RCP 3 Questions

- Have you had difficulty sleeping because of your asthma symptoms - including cough?
- Have you had your usual asthma symptoms during the day - cough, wheeze, chest tightness or breathlessness?
- Has your asthma interfered with your usual activities - housework, work, school etc?

Stepwise Management

Review medication change after 4 weeks



A. Compliance

Under-use of preventive therapy is common - review prescriptions ordered, address patient concerns regarding steroids.

Check Inhaler technique to make sure patient can use their inhaler / change as required.

Use Personal Asthma Action Plan as a tool.

B. Self-management – Personal Asthma Action Plan

Click for [NHSGGC Asthma self-management plan](#)

- Grade A evidence; offer to all, but particularly those who are poorly controlled.
- Written and personalised, focusing on patient's needs and preferences. Brief, simple education linked to patient goals likely to be most effective - "If we could make one thing better with your asthma, what would it be?"
- May be based on symptom or PEFr - latter not essential. A process not an event.

C. Categorisation of ICS by dose (abbreviated from SIGN 153)

Preferred choices highlighted, refer to NHSGGC [Inhaler Device Guide](#)

ICS	Dose		
	Low dose	Medium dose	High dose
Clenil modulite	100 mcg two puffs twice a day	200 mcg two puffs twice a day	250 mcg 2 (or 4) puffs twice a day
Qvar	50 mcg two puffs twice a day (Easi-breathe)	100 mcg two puffs twice a day	100 mcg four puffs twice a day
Beclometasone easyhaler	200 mcg one puff twice a day	200 mcg two puffs twice a day	
Fostair (pMDI and Nexthaler)	100/6 one puff twice a day	100/6 two puffs twice a day	200/6 two puffs twice a day
Duoresp Spiromax	160/4.5 one puff twice a day	160/4.5 two puffs twice a day	320/9 two puffs twice a day
Symbicort Turbohaler	100/6 two puffs twice a day	200/6 two puffs twice a day	400/12 two puffs twice a day
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Flutiform	50/5 two puffs twice a day	125/5 two puffs twice a day	250/10 two puffs twice a day
Seretide accuhaler	100/50 one puff twice a day	250/50 one puff twice a day	500/50 one puff twice a day
Seretide Evohaler	50/25 two puffs twice a day	125/25 two puffs twice a day	250/25 two puffs twice a day
Relvar Ellipta		92/22 one puff once a day	184/22 one puff once a day

D. Annual review

- Assess control of symptoms using agreed tool – RCP 3 questions.
- Review therapy including inhaler technique.
- Frequency of exacerbations / oral steroids / A&E, OOH contacts and acute admissions.
- Peak flow (percentage of best).
- Personal Asthma Action Plan – See Box B above
- Smoking cessation
- Consider steroid side effects in patients on high dose inhaled steroid (see C above).
- Consider DEXA referral for osteoporosis if on high dose steroid for 10 years and 10 year risk of major fracture >10%. Use [Qfracture risk calculator](#).

E. Complicating problems in asthma

- Rhinitis - control may improve asthma control.
- GORD - worth treating if present.
- Infection - confirm with sputum culture if recurrent infection suspected - most asthma exacerbations do NOT require antibiotics.
- Obesity - may contribute to poor control.
- Smoking - associated with usual issues plus reduced effect of inhaled steroid.
- Dysfunctional breathing.

F. Hospital Referral

- **Diagnostic uncertainty:**
 - Symptoms without variation in PEFr or spirometry.
 - Poor response to treatment, following adequate trial of treatment.
 - Possible causative agent, especially occupational.
- **Poor control**
 - Frequent exacerbations.
 - Persisting symptoms / frequent exacerbations despite additional add-on therapies.

G. Checking Inhaler Technique

See [NHSGGC Patient Information Leaflets](#)

MDI / Breath actuated MDI:

Preparation (shake inhaler, breathe out)
Co-ordinate activation (unless breath activated MDI)
Slow, steady inhalation
Breath-hold for 10 seconds
Wait 30 seconds before repeating.

Spacer:

Breathe in immediately after activation
Single puff of inhaler
Breathe in slowly
Either breath-hold for 10 seconds or tidal breathe in and out of mouthpiece 5 times
Wait 30 seconds before repeating, even if multi-dosing.

Dry Powder: Fast, deep inhalation.

H. Resources

[SIGN 153 Asthma Guideline](#) [Primary Care Respiratory Society](#) [Asthma UK](#)

[NHSGGC Respiratory MCN Website](#)