





Guidance to support the stepwise review of combination inhaled corticosteroid therapy for adults (≥18yrs) in asthma

This document has been produced to support prescribers in managing patients with asthma, giving guidance on stepping down treatment where it is appropriate to do so.

In general:

- The BTS/SIGN guidance¹ on the management of asthma should be used to treat patients with the most appropriate treatment and dosage for the initial severity of their asthma.
- When reviewing asthma therapy remember the three "T's": Adherence with <u>Treatment</u>, inhaler Technique and Trigger factors.
- Inhaled corticosteroids (ICS) are safe and effective for most patients with asthma, although
 the risk of systemic side effects is greater when higher doses are used. The dose of ICS
 should be titrated to the lowest dose at which effective asthma control is maintained.²
- If asthma is controlled with a combination ICS/long-acting beta2 agonist (LABA) inhaler, the preferred approach is to reduce the ICS by approximately 25-50% whilst continuing the LABA at the same dose.¹
- When decreasing maintenance therapy the potential risks and benefits should be discussed with the person (or family/carer where appropriate).⁵
- The decision to use a combination device or the two agents in separate devices should be made on an individual basis, taking into consideration therapeutic need and the likelihood of treatment adherence.⁴
- If control is maintained after stepping-down, further reductions in the ICS should be attempted at 12 week intervals until a low dose is reached, when the LABA may be stopped.³
- Only consider stopping ICS treatment completely for people who are using low dose ICS alone as maintenance therapy and are symptom free.
- Asthma UK produce a patient self-management plan which should be completed for all
 patients with asthma. <u>Click here to obtain an editable electronic copy of the Asthma UK
 patient self-management plan</u>
- Complete asthma control needs to be achieved for at least 12 weeks before attempting to step patients down¹ (See Table 1 below). The decision to step-down/up therapy should be jointly made between the clinician and the patient. When stepping patients down/up or switching therapy, prescribers should keep device changes to a minimum, consider the cost and beclometasone dipropionate (BDP) equivalence of different inhaler devices¹ (See Table 2 below).

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Table 1: Levels of asthma control - Assessment of current clinical control (over 4 weeks)

	Level of asthma control		
Symptom	Completely controlled	Partly controlled	Uncontrolled
Daytime symptoms	Twice or less per week	>Twice per week	
Limitation on activities	None	Any	Three or more
Nocturnal symptoms / awakening	None	Any	features of partly
Need for reliever / rescue treatment	Twice or less per week	>Twice per week	controlled asthma
Lung function (PEF or FEV ₁)	Normal	<80% predicted or personal best	

Table 2: Corticosteroid equivalence to beclometasone

Inhaled corticosteroid	Equivalent beclometasone dipropionate (BDP) dose	
400mcg Clenil® (Beclometasone)	400mcg BDP	
200mcg Qvar® (Beclometasone – extra fine)	400mcg BDP	
200mcg Fostair® (Beclometasone – extra fine)	500mcg BDP	
400mcg budesonide	400mcg BDP	
200mcg fluticasone propionate	400mcg BDP	
250mcg fluticasone	500mcg BDP	

References

- British Thoracic Society. Scottish Intercollegiate Guidelines Network. British Guideline on the Management of Asthma. Published September 2016 https://www.brit-thoracic.org.uk/document-library/clinical-information/asthma/btssign-asthma-guideline-2016/
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- 3. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention. 2012 update http://www.ginasthma.org/local/uploads/files/GINA Report March13.pdf
- National Institute for Health and Clinical Excellence. Inhaled corticosteroids for the treatment of chronic asthma in adults and in children aged 12 years and over. NICE technology appraisal guidance 138. 2008 Mar. http://www.nice.org.uk/TA138
- National Institute for Health and Clinical Excellence. Asthma: Diagnosis, Monitoring and Chronic Asthma Management. November 2017 https://www.nice.org.uk/guidance/ng80/chapter/Recommendations#decreasing-maintenance-therapy

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Guidance for stepping patients down

Has the patient achieved good asthma control for at least 3 months? Yes No Do not step the patient down Step the patient down 1. Check inhaler technique 1. Identify the current BDP equivalent 2. Check exposure to trigger factors dosage of inhaled corticosteroid treatment using the table included with 3. Check adherence to therapy and consider any issues which may affect compliance the asthma treatment algorithm. 2. Consider using the most appropriate product with the lowest acquisition cost If these have been excluded, step-up therapy when stepping down patients. 3. It may be more cost effective to change products during step down. If appropriate, prescribe the dose suitable to that step Clinicians should consider: and ensure the patient is shown how to Patients achieve complete asthma control at different use any potentially new device. rates. Clinicians should have a discussion with the patient to decide whether to trial the current therapy for Note: longer or to step-up again. If the patient is prescribed additional add-on therapies (e.g. montelukast, oral Suggested discussion points with patient: prednisolone) consider reducing/stopping 1. Are there any factors affecting adherence to therapy these one by one before attempting to e.g. polypharmacy, social reasons or beliefs? reduce 2. Are there any issues affecting compliance e.g. dexterity? 3. Is the patient exposed to trigger factors e.g. smoking, pets, pollen or stress? 4. Are there any lifestyle points to consider where Review the patient in 3 month asthma stability is crucial e.g. impending exam No 5. How long did it take the patient to achieve complete Has the patient achieved complete asthma control last time? asthma control in the last 3 months 6. What would be the potential consequences of an (see Table 1 on previous page)? exacerbation and does the patient know what to do if this occurs? If you previously stepped the patient 7. What would the patient prefer to do? up to cover the hay fever season and 8. Ensure the patient has an up to date selfwish to step them down again, review management plan the patient in 1 month rather than 3 months. Action: Clinicians should use their professional judgement to Yes decide whether to continue trialing the current therapy, or to step-up again. If continuing on the current therapy for longer, the clinician should advise the patient to Step the patient down again and monitor their symptoms and short-acting bronchodilator repeat the cycle use, and review the patient again in 1 month. Patients should be advised to follow their self-management plan if their symptoms become problematic within this time. Refer to a specialist if necessary.

Guidance on the choice of inhalers when stepping down can be found on the following page.







Guidance on choice of inhaler when stepping up or down: Please note: The following are examples of ICS step down that may be undertaken. This list is not exhaustive. The drugs in BOLD are on the Barnsley formulary for use in adult patients with asthma.

HIGH DOSE (1600-2000mcg BDP equivalent) & LABA add- on therapy	MEDIUM DOSE (800-1000Mcg BDP equivalent) & LABA add-on therapy	LOW DOSE (400-500Mcg BDP equivalent) & LABA add-on therapy	LOW DOSE (400-500Mcg BDP equivalent)	
Fostair 200/6 inhaler 2 puffs bd	Fostair 100/6 inhaler 2 puffs bd	Fostair 100/6 inhaler 1 puff bd	Clenil 100mcg mdi 2 puffs bd	
ICS alone: Clenil 200mcg mdi 4 puffs bd Qvar 100mcg 4 puffs bd	ICS alone: Clenil 200mcg mdi 2 puffs bd Qvar 100mcg 2 puffs bd		Qvar 50mcg 2 puffs bd	
Seretide 500 Accuhaler 1 puff bd Airflusal Forspiro 500	Seretide 250 Accuhaler 1 puff bd	Seretide 100 Accuhaler 1 puff bd		
1 puff bd Flutiform 250/10 2 puffs bd	Flutiform 250/10 inhaler 1 puff bd Flutiform 125/5 inhaler 2 puffs bd	Flutiform 125/5 inhaler 1 puff bd Flutiform 50/5 inhaler 2 puffs bd	Fluticasone 50mcg Evohaler 2 puffs bd Fluticasone 125mcg Evohaler	
Seretide 250 Evohaler 2 puffs bd Airflusal 250 MDI **** 2 puffs bd	Seretide 125 Evohaler 2 puffs bd Airflusal 125 MDI 2 puffs bd***	Seretide 50 Evohaler 2 puffs bd	1 puff bd	
ICS alone: Fluticasone 250mcg evohaler 2 puffs bd	ICS alone: Fluticasone 125mcg evohaler 2 puffs bd			
Symbicort 400/12 2 puffs bd	Symbicort 400/12 Turbohaler 1p bd Symbicort 200/6 Turbohaler 2p bd	Symbicort 100/6 Turbohaler 2 puffs bd Symbicort 200/6 Turbohaler 2 puffs bd	Pulmicort Turbohaler 100mcg 2 puffs bd Pulmicort Turbohaler 200mcg	
DuoResp Spiromax** 320/9 2 puff bd	DuoResp Spiromax 320mcg/9mcg** 1p bd or 160mcg/4.5mcg 2p bd	DuoResp Spiromax 160mcg/4.5mcg* 1 puff bd	1 puff bd Easyhaler budesonide 100mcg	
ICS alone: Pulmicort 400 2 puffs bd	ICS alone: Pulmicort 200 2 puffs bd Easyhaler budesonide 200 2 puffs bd	*Equivalent to Symbicort 200/6	2 puffs bd Easyhaler budesonide 200mcg 1 puff bd	
Equivalent to Seretide 125 Ev *Equivalent to Seretide 250 E		**Equivalent to Symbicort 400/12		