



Step-down guidance: Stepping-down combination ICS/LABA asthma inhaler therapy:

Adults ≥17yrs

Important

Complete asthma control needs to be achieved for at least 12 weeks before attempting to step patients' down^{2,3}. Stepping patients down before 12 weeks of complete asthma control can lead to exacerbations and hospital admissions. Table 1 defines the levels of asthma control.

NICE guidance² recommends that clinicians should stop or reduce the dose of medicines in an order that takes into account their clinical effectiveness when introduced, side effects and the patient's preference. This local step-down guidance only refers to inhaled corticosteroid(ICS)/long-acting beta agonist(LABA) inhalers, but other drugs (e.g. montelukast, tiotropium) may be stopped first if deemed appropriate.

When stepping patients down or switching therapy, prescribers should keep device changes to a minimum and consider the beclometasone dipropionate (BDP) equivalence of different inhaled corticosteroids^{2,3,4}. Table 2 demonstrates the variation in BDP equivalence across different inhaled corticosteroids. Once stable, consider changing to a dry powder inhaler (DPI) (1st line).

What do the guidelines say about stepping-down inhaled corticosteroids?

Reductions should be considered every three months, but only if patients have complete asthma control^{1,2}. When reducing inhaled corticosteroids (ICS) clinicians should remember that patients deteriorate at different rates.

Options for stepping-down:

- 1. Reduce the ICS by 25-50% whilst continuing the LABA at the same dose
- 2. Half the daily dose of combination treatment, although this approach is more likely to lead to loss of asthma control as it involves a reduction in the ICS and LABA doses

British Thoracic Society (BTS) guidance advises combination devices may increase adherence to therapy¹. As LABA monotherapy can increase the risk of asthma-related deaths, prescribers should consider each patient on an individual basis taking into account patient preference, therapeutic need and the likelihood of adherence with all asthma therapy. Any decision should be taken after having a full discussion with the patient covering the potential consequences, such as a reappearance of symptoms and what to do if they occur¹.

If control is maintained after stepping-down, further reductions in the ICS should be attempted. The dose of ICS should be adjusted to achieve the lowest dose required for effective asthma control².

Table 1: LEVELS OF ASTHMA CONTROL ¹				
Assessment of current clinical control (preferably) over 4 weeks				
(Consider using the Asthma control questionnaire (ACQ) or the Asthma control test (ACT) to assess symptom control)				
Characteristic	Completely Controlled	Partly Controlled	Uncontrolled	
Daytime symptoms more than twice per week	None of these	1-2 of these	3-4 of these	
Any activity limitation due to asthma				
Any night waking due to asthma				
Reliever needed more than twice per week				

Table 2: VARIATIONS IN BDP EQUIVALENCE		
Inhaled Corticosteroid	Equivalence beclometasone dipropionate (BDP)/day	
Beclometasone – Clenil [®] /Soprobec [®]	400mcg Clenil [®] /Soprobec [®] = 400mcg BDP	
Beclometasone – Luforbec [®] /Bibecfo [®] /Fostair [®]	200mcg Luforbec [®] /Bibecfo [®] /Fostair [®] = 500mcg BDP	
Beclometasone – Kelhale®/Qvar®	200mcg Kelhale [®] /Qvar [®] = 400mcg BDP (refer to SPC)	
Budesonide – Easyhaler [®] /Pulmicort [®] /Fobumix [®] /WockAIR [®] /DuoResp [®] /Symbicort [®]	400mcg budesonide = 400mcg BDP	
Fluticasone – Flixotide/Fusacomb/Combisal/Seretide/Fixkoh	200mcg fluticasone propionate = 400mcg BDP	
Ciclesonide - Alvesco®	160-240mcg Ciclesonide = 400mcg BDP	
Mometasone - Asmanex®	200mcg Mometasone = 400mcg BDP	

Ascertain whether the patient has achieved complete asthma control for at least 12 weeks. Does the patient have an up-to-date asthma action plan? Has inhaler technique, smoking status, adherence, trigger factors, medication side-effects and use of rescue medication (if used) been checked?



- 1. British Thoracic Society. Scottish Intercollegiate Guidelines Network. British guideline on the management of asthma. 2019. <u>BTS_SIGN Guideline for the management of asthma 2019.pdf</u> (accessed 21/04/23)
- 2. NICE guideline NG80: Asthma: Diagnosis, monitoring and chronic asthma management. November 2017 updated March 2021
- Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention. 2022update. <u>GINA Main Report 2022 Front Cover (ginasthma.org)</u> (accessed 21/04/23)
- 4. 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. <u>http://www.nice.org.uk/TA138</u>

Asthma Step-down Algorithm

Note: all doses are for asthma maintenance, NOT MART. The below are some formulary choice examples and not exhaustive of step-down plans*.

If patient is at Step 3/4, consider respiratory specialist advice on how to manage step-down process, particularly if a more gradual ICS dose reduction (<50%) is required than the combination devices in the algorithms allow. This may involve using combinations of different inhalers. If under respiratory specialist review - do not attempt step-down without agreement of specialist

BTS/SIGN Step 4/High dose ICS	BTS/SIGN Step 3/Moderate dose ICS	BTS/SIGN Step 2/Low dose ICS
	DRY POWDER INHALER (DPI) CHOICES	
Fobumix® 320/9 2 puffs BD**	Fobumix [®] 320/9 1 puff BD* or Fobumix [®] 160/4.5 2 puffs BD*	Fobumix [®] 160/4.5 1 puff BD* or Fobumix [®] 80/4.5 2 puffs BD
Fostair NEXThaler® <u>(extrafine particle size</u>) 200/6 2puffs BD	Fostair NEXThaler [®] 200/6 1 puff BD* or Fostair NEXThaler [®] 100/6 2 puffs BD	Fostair NEXThaler® 100/6 1 puff BD*
Symbicort Turbohaler [®] 400/12 2 puffs BD	Symbicort Turbohaler [®] 400/12 1 puff BD* or Symbicort Turbohaler [®] 200/6 2 puffs BD*	Symbicort Turbohaler [®] 200/6 1 puff BD* or Symbicort Turbohaler [®] 100/6 2 puffs BD Further step-down to low dose ICS monotherapy may be appropriate
	PRESSURISED METERED DOSE INHALER (pMDI) CHOICE	S
	Consider maintaining current device (or consider DPI if appropriate). Once stable, consider change to DPI	Consider maintaining current device (or consider DPI if appropriate). Once stable, consider change to DPI
Luforbec [®] /Bibecfo [®] ***/Fostair ^{®#} 200/6 (<u>extra</u> fine particle size) pMDI 2 puffs BD	Luforbec [®] /Bibecfo [®] /Fostair [®] 200/6 pMDI 1 puff BD* or Luforbec [®] /Bibecfo [®] /Fostair [®] 100/6 pMDI 2 puffs BD	Luforbec [®] /Bibecfo [®] /Fostair [®] 100/6 pMDI 1 puff BD*
Combisal [®] /Seretide Evohaler ^{®#} 250/25 pMDI 2 puffs BD ^{##}	Combisal [®] /Seretide Evohaler [®] 250/25 pMDI 1 puff BD* or Combisal [®] /Seretide Evohaler [®] 125/25 pMDI 2 puffs BD ^{##}	Combisal [®] /Seretide Evohaler [®] 125/25 pMDI 2 puffs BD* or Combisal [®] /Seretide Evohaler [®] 50/25 pMDI 2 puffs BD ^{##}

C0,

Low (<35 g CO2e) or

Carbon Footprint Key:

Fostair pMDI and Seretide pMDI are non-formulary

Fluticasone & Salmeterol combinations (e.g. Combisal[®]/ Seretide Evohaler[®]) GREY for adults – limited place in local guideline.

Acknowledgments adapted with permission from guidance provided by Hertfordshire & West Essex ICB

High (≥35 g CO2e) carbon footprint per puff (www.prescqipp.info)

DDICB Asthma Step-down Guidance V2: Date originally produced: 2020. Updated: September 2023. Review date: August 2026