North Yorkshire CCG and Vale of York CCG Asthma Pathway

(Adults)

NHS **North Yorkshire**

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NHS NHS Vale of York Harrogate and District York Teaching Hospital **NHS Foundation Trust NHS Foundation Trust**

	(Adults) Clinical Commissioning Group Clinical Commissioning		ning Group NHS Foundation Trust NHS Foundation Tr		
Before moving up: • Check	Diagnosis and AssessmentEvaluation:• assess symptoms, measure lung function, check inhaler technique and adherence • adjust dose• update self-management plan				
adherenceAssess inhaler	Asthma-suspected: Start ICS at dose appropriate to severity of disease as per regular preventer therapy. Assess response objectively as per evaluation Asthma - diagnosed (Branded prescribing only for all inhalers)				
technique • Eliminate trigger					
 factors if possible Reconsider diagnosis if response to 	Move up to improve control	Specialist therapies The following interventions can be considered prior to referral: • Increase ICS to high dose (>800mcg steroid			
treatment is unexpectedly			Additional controller therapies	card indicated). Most patients with asthma can be controlled on doses ≤1000mcg per day.	
 Poor Review every 6- 8 weeks, either face to face or telephone 		Initial add-on therapy Add inhaled LABA to <i>low dose</i>	 Increase ICS up to medium dose If no response to LABA consider stopping before increasing dose of ICS 	 Add Montelukast (if not already trialled) Or: Add LAMA - Spiriva Respimat® 2.5mg 2 puffs OD (one month trial) 	
Key: Eco-friendly:	Regular preventer	ICS Prescribe low dose combination inhaler (fixed dose or MART)	If benefit from LABA, continue and prescribe medium dose combination inhaler	Theophylline should only be prescribed by a Respiratory Specialist	
Dry Powders Easyhaler: Turbohaler:	Commence Low dose ICS Start at dose of ICS appropriate to severity of disease.	 Fobumix Easyhaler® 160/4.5 (£10.75) 1 dose BD Fostair Nexthaler® 100/6 (£14.66) 	 Fobumix Easyhaler® 160/4.5 (£21.50) 2 doses BD Fostair Nexthaler® 100/6 (£29.32) Fostair® MDI 100/6 (£29.32) 2 doses BD 	 MART Dosing (Maintenance & reliever therapy) For patients: Poorly controlled on medium dose ICS On ICS/LABA who have asthma attacks When initiating do not reduce the total regular dose of daily ICS 	
Nexthaler: Solution	 Budesonide Easyhaler 200mcg (£5.31) 1 dose BD Beclometasone Clenil® MDI 200mcg (£4.85) 1 dose BD 	Fostair® MDI 100/6 (£14.66) 1 dose BD Symbicort Turbohaler® 200/6 (£14.00) 1 dose BD	 Symbicort Turbohaler® 200/6 (£28.00) 2 doses BD Or: Add LTRA – Montelukast 10mg ON for one month trial, stop if no benefit 	 Fobumix Easyhaler® 160/4.5 dose BD + 1 dose PRN or 2 doses OD + 1 dose PRN (MAX 8-12 doses/day and no more than 6 doses on one occasion) Fostair Nexthaler® 100/6 Fostair® MDI 100/6 	
SMI Respimat:	Budesonide (Pulmicort®) Turbohaler 200mcg (£8.55) 1 dose BD	Once daily option Consider if adherence to twice daily dosing a concern following formal assessment. Twice daily dosing is preferred Relvar Ellipta® 92/22 (£22.00)		1 dose BD + 1 dose PRN, MAX 8 doses/day Symbicort Turbohaler® 200/6 1 dose BD + 1 dose PRN or 2 doses OD + 1 dose PRN (MAX 8-12 doses/day and no more than 6	
Moving down		1	dose OD	doses on one occasion)	
 If patient stable, consider reducing dose 	All prices above represent 30 da				
reducing dose of ICS by 25- 50% every three months • Review every 6 -8 weeks	Reliever (unless using MART) SABA PRN – consider moving up if using three doses a week or more—red flag for poor control of asthma Any patient who has required more than 4 Salbutamol inhalers in 12 months should be invited for an urgent asthma review Salamol® 100mcg 1-2 doses up to QDS PRN 200 dose inhaler £1.46 per inhaler Salbutamol Easyhaler 100mcg 1-2 doses up to QDS PRN 200 dose inhaler £1.46 per inhaler Salamol® 100mcg 1-2 doses up to QDS PRN 200 dose inhaler £1.46 per inhaler Salamol® 100mcg 1-2 doses up to QDS PRN 200 dose inhaler £1.46 per inhaler Salamoler f3 31 per inhaler				

inhaler £3.31 per inhaler (Terbutaline 500mcg (Bricanyl®) Turbohaler 1 dose up to QDS PRN 100 dose inhaler £8.30 per inhaler

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Diagnosis

Features that increase probability of asthma:

- •Recurrent episodes of symptoms wheeze, breathlessness, chest tightness and cough - particularly at night or early morning
- •Symptom variability and triggers including exercise, allergen exposure, cold air, aspirin, NSAIDs, or β blockers
- •Absence of symptoms of alternative diagnosis .
- Recorded observation of wheeze
- Personal history of atopy
- Historical record of variable PEF or FEV₁

Remember:

•A normal spirometry (or PEF) obtained when the patient is not symptomatic does not exclude the diagnosis of asthma, consider further tests such as exhaled nitric oxide levels, bronchial provocation test, blood eosinophils, allergy testing (IgE) if diagnosis unclear Accurate history, include rhinitis and reflux

General management of all asthma patients

Review inhaler technique.

Streamline inhaler devices (prescribe all dry powder or all aerosol devices to patients)

- Asthma control test (www.asthmacontroltest.com)
- Lung function test (spirometry in preference)
- Check concordance to asthma medication
- General medication review
- Monitor use of rescue medications and offer urgent review if >4 SABAs /year
- Monitor number of unscheduled visits and steroid courses per year, arrange follow up within 48 hours post exacerbation
- Provide patient with a steroid

alert card if on high dose inhaled steroids (>800mcg daily)

- Discuss exercise or occupational induced symptoms and management
- Offer or refer patients for smoking cessation advice and support in guit attempts
- Influenza vaccination
- Trigger recognition and avoidance, including occupational aeroallergens
- Written self-management/ personal asthma action plan
- Relevant patient education including weigh loss advice and support
- Agree appropriate follow up face to face or by telephone

Vale of York Harrogate and District York Teaching Hospital North Yorkshire Clinical Commissioning Group Clinical Commissioning Group **NHS Foundation Trust** Aims of asthma management

NHS

No daytime symptoms

NHS

- •No night time awakenings due to asthma
- No need for rescue medication
- No limitations on activity including exercise
- No exacerbations
- •Normal lung function (FEV₁ and/or PEF >80% of predicted or best)

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 Individualised treatment plans and goals to be negotiated and agreed with patient

Acute asthma management

Assess severity of exacerbation and refer to hospital if patient presents with one feature of acute severe or life threatening asthma	Immediate treatment	Prior to leaving surgery
 Acute Severe: PEF 33-50% of best or predicted Respiratory rate ≥ 25/minute, heart rate ≥ 110/minute Inability to complete sentences in one breath Life threatening: SpO₂ <92% PEF <33% of best or predicted Silent chest, cyanosis, or poor respiratory effort Exhaustion, altered consciousness, arrhythmia, hypotension 	 Salbutamol 100mcg 2- 10 puffs via MDI and large volume spacer as needed Check PEF prior and 15 minutes post bronchodilator and monitor response for at least 30 minutes 40-50mg oral prednisolone daily for a minimum of 5 days or until recovery (not enteric coated) 	 Check inhaler technique/ concordance to current asthma medications Give short-term symptom-based management plan Arrange follow-up within 48 hours with GP/PN if good response to initial treatment Advise patient to call for urgent medical assistance if any further deterioration in asthma

When to refer for specialist opinion

Diagnosis unclear

- Patient requiring specialist therapies
- Unexpected clinical findings (crackles,
- clubbing, cyanosis, cardiac disease)
- Persistent, non-variable breathlessness
- Unexplained restrictive spirometry Marked blood eosinophilia
- Chronic sputum production

- Monophonic or inspiratory wheeze (stridor)
- Suspected occupational asthma
- Prominent systemic features (myalgia, fever, weight loss)
- · Poor response to asthma treatment
- Severe asthma exacerbation

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