Asthma inhaler guidelines (age 12-adult)

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Target audience:	 All employees and contracted staff working on behalf of NHS Kent and Medway (NHSKM), including temporary staff, contractors and seconded staff.
	 Members and participants of the NHSKM board and its committees.
	 Third parties acting on behalf of NHSKM, including shared services and other agency staff including local authority.
	 Any member of the public, including patient representatives and members of the voluntary and community sector completing work on behalf of NHSKM.
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Interventions to be considered for ALL patients at ALL stages



Diagnosing Asthma – Ensure diagnosis is confirmed by objective tests including family history, spirometry, symptoms, peak flow and FeNo as appropriate. <u>https://youtu.be/bLEJd_bqeog</u> Lifestyle advice-

Offer treatment and support for smoking and vaping. (Very Brief Advice training <u>https://www.ncsct.co.uk/publication_very-brief-advice.php</u>) or refer to stop smoking (<u>https://www.kentcht.nhs.uk/service/one-you-kent/one-you-smokefree/</u> and <u>https://www.medway.gov.uk/info/200221/a_better_medway/441/reducing_smoking</u>).

Offer advice and support for weight loss where BMI is 30+

Discuss **potential trigger** factor avoidance. This could be **pollen**, **exposure to pets**, **perfumes**, **or exercise**, and is individual to each patient. Record on the patient's asthma action plan.

Inhaler choice - When considering the most appropriate inhaler for a patient we need to consider several things:

- Patient's inspiratory flow- Use In-check dial or dummy inhalers to guide.
- Patient usability- Consider using the same type of inhaler as the patient progresses through the asthma pathway. This will improve inhaler technique and concordance.
- Carbon footprint- The NHS has committed to lowering the global warming potential (GWP) for inhalers.

THIS IS NOT INTENDED TO REPLACE ALL POTENTIAL FORMULARY AND SECONDARY CARE INHALER CHOICES, BUT TO SHARE BEST PRACTICE WHEN CONSIDERING PATIENTS JOURNEY THROUGH INHALER PATHWAY. PLEASE PRESCRIBE ALL INHALERS BY BRAND.

MART therapy- GINA 2023 recommends that all patients that are suitable, should be considered for MART therapy (Maintenance and Reliever Therapy). This reduces the risk of mild and moderate exacerbations and reduces hospital admissions, and negates the need for regular SABA. MART therapy should be commenced at a maintenance dose of 1 puff twice a day, and further doses can be taken for wheeze or shortness of breath to a **maximum of between 8-12 inhalations per day**, **depending on inhaler, used for short periods**. **Refer to inhaler SPC. Patients may still require access to SABA in emergency, or if SABA is required pre-exercise**.

Review- As much as possible all asthma reviews should be completed face to face. Review patients within 8-12 weeks of starting any new therapy to assess efficacy. Review concordance and consider escalation. Inhaler technique, side effects and efficacy (using ACT score) should be assessed at EVERY interaction. Issue a steroid card if high doses of ICS are necessary (see Appendix 1)

ALL PATIENTS REQUIRE AN ASTHMA MANAGEMENT PLAN Adult: <u>Adult Asthma Action Plan –</u> <u>Asthma + Lung UK (asthmaandlung.org.uk)</u>) Child: <u>Child Asthma Action Plan – Asthma + Lung UK</u> (asthmaandlung.org.uk)

Escalation and de-escalation- Before changing inhaled therapy:

- Check inhaler concordance and technique and eliminate any trigger factors.
 - Review diagnosis if outcomes are unexpectedly poor
 - On changing therapy review after 8-12 weeks to assess benefit
 - If patient is stable consider reducing ICS dose by 25% and review every 3 months to assess efficacy

Referral- Check concordance with inhaled therapy, then consider referral to secondary care if:

- Diagnosis is unclear
- The patient has required 2 or more courses of oral corticosteroids in a 12-month period, despite concordance to inhaled therapy
- The patient requires regular MART reliever therapy (>8 reliver doses a day)
- The patient is still exacerbating despite escalation to maximum inhaled therapy.
- If persistently raised FeNO and eosinophils, consider early referral to specialists to determine eligibility for biologics.

PREFERRED PATHWAY





NOTE: ALTHOUGH MANY 12-17 YEAR OLDS WILL BE ABLE TO USE A DPI SUCCESFULLY, AND SOME ARE LICENSED, SOME MAY PREFER TO USE AN MDI WITH A SPACER. COUNSEL THE CHILD/ADOLESCENT THOROUGHLY WITH NEW INHALER TECHNIQUE.

Asthma Inhaler Guidelines (age 12-adult) KMICB Approved by: IMOC Approval Date: Aug 2023 Review Date Aug 2025

EXACERBATION GUIDELINES- 12+ years

Assess the patient: Check the severity of the exacerbation by assessing presentation as below:					
Moderate	Severe	Life-threatening			
Peak flow (PEFR): > 50-75% of	Pulse rate: ≥110bpm	PEFR <33% of predicted or			
predicted or best	Respiratory rate: >25/min	best			
Normal speech	O2 saturation on air: at least	O2 saturation on air: <92%			
	92%	Drowsy, confused, silent			
	PEFR: 33-50% predicted or	chest, cyanosis, hypotension,			
	best (<50% in children)	cardiac arrythmia			
	Inability to complete				
	sentences				
	Use of accessory muscles				
	Start treatment				
SABA: 1 puff every 30-60 secs	While waiting for hospital tran	sfer start SABA MDI via spacer			
up to a maximum of 10 puffs.	and O2 if	available.			
If no improvement repeat					
after 10-20 mins.					
Prednisolone: 40-50mg/day					
for a minimum of 5 days					
Controlled O2 (if available):					
Target SAT : 94-98%					
	Assess symptoms				
Continue treatment with	•				
SABA and assess response at		↓			
an hour or earlier if patient					
declines.					
IF NO IMPROVEMENT	TRANSFER T	O HOSPITAL			
TRANSFER TO HOSPITAL					
On discharge from hospital/ or post exacerbation:					
Follow up with GP or practice nurse within 48 hours of exacerbation/hospital discharge					
Check inhaler technique and concordance Describes the second se					
Provide with an asthma self-management plan (Adult: <u>Adult Asthma Action Plan – Asthma</u>					
+ Lung UK (asthmaandlung.org.uk)) Child: (Child Asthma Action Plan – Asthma + Lung UK					
(asthmaandlung.org.uk)					

• Advise patient to seek urgent medical assistance if symptoms deteriorate

APPENDIX 1- Steroid cards

Patients who require long term high dose inhaled corticosteroids and those who require repeated courses of oral corticosteroids will need to be issued with a steroid treatment card and a steroid emergency card.

 Aways carry this card with you do for it is already as the state of th	This is the original card and provides patients with information on why they should not stop steroid treatment suddenly. These can be ordered as below.
Steroid Emergency Card Improvementation Charles Improvementation Provide the state of the state o	This is the new steroid card, which provides emergency clinicians guidance on what treatment may be required if the patient is at risk of adrenal insufficiency. This card is available to be printed from EMIS (create a document in patients' consultation, and search for "corticosteroid")

When should steroid treatment cards be issued?

- All patients receiving exogenous steroids at a dose of prednisolone 5mg/day or equivalent for 4 weeks or longer and for 12 months after stopping oral steroids.
- Patients taking inhaled beclomethasone >1000mcg/day or equivalent or fluticasone >500mcg/day or equivalent (see below)
- Patients taking more than 40mg prednisolone per day or equivalent for longer than 1 week or repeated short courses of oral doses. e.g. patients on rescue treatment for asthma or COPD.
- Patients taking drugs that affect CYP3A4 (CP450) metabolism with a steroid treatment.

Corticosteroid	Brand	Dose (adult >12 years)
Beclometasone-Standard particle CFC-free inhalers	Clenil	1,200–2,000 micrograms per day in 2 divided doses
Beclometasone-Extra-fine particle CFC-free inhalers	Qvar	500–800 micrograms per day in 2 divided doses
Budesonide-Dry powder inhalers	Pulmicort	1,000–1,600 micrograms per day in 2 divided doses
Fluticasone Propionate- Metered dose and dry powder inhalers	Flixotide/Seretide	600–1,000 micrograms per day in 2 divided doses
Fluticasone Furoate-Dry powder inhaler	Relvar	184 micrograms as a single daily dose

Order cards from:

http://www.nhsforms.co.uk/ or https://secure.pcse.england.nhs.uk/_forms/pc sssignin.aspx

NOTE: Any patient with asthma receiving long term oral corticosteroids, or high dose ICS, will require regular HbA1c and weight monitoring and an osteoporosis risk assessment annually. <u>Scenario: Corticosteroids | Management | Corticosteroids - oral | CKS | NICE</u>

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