



Inhaler Standards and Competency Document

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CONTENT

Objective	3
Background	3
Standards for training and assessment of inhaler technique	4
Bibliography and supporting documents	6
Appendix 1 – Inhaler devices assessment example	7
Appendix 2 – Competency statements	8
Appendix 3 – Patient competency checklist	11

The UK Inhaler Group is a coalition of not-for-profit organisations and professional societies with a common interest in promoting the correct use of inhaled therapies to improve the outcomes of patients with respiratory conditions. We seek to achieve our vision by galvanising the collective power of the respiratory community and by raising the importance of correct inhaler technique across the health system and among governmental departments.

For more information about our activities and membership:

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Objective

This document is intended to be used as a framework to set, assess and support the standards of those initiating inhaler therapies and checking inhaler techniques, in order that they can demonstrate competency in prescribing medications via an inhaled route and teaching the correct technique for the inhaler device prescribed in order to optimise drug administration. It also provides an outline basis for competency assessment.

Background

Inhaled medications are the cornerstone for treating both asthma and COPD. The most important advantage of the inhaled route for delivery of medicines is that they are delivered directly into the airways and lungs. This results in higher local concentrations, with lower systemic exposure and therefore fewer systemic side effects when compared with oral or intravenous routes. Unfortunately, inhalation of medicines can be complicated and difficult for many people, leading to suboptimal use and effect. Effective drug deposition into the lungs depends on the type of inhaler device, the characteristics of the inhaled medicine, and on the ability of the patient to use the device. Recognising that people are still unable to use their devices optimally and that many health care professionals are unable to assist people effectively in optimising their technique, UKIG has developed standards and competencies for those prescribing inhaled medications. The standards also set out how healthcare professionals can work with patients to optimise their technique and maximise the benefit of their medication.

Standards for training and assessment of inhaler technique

- 1 All healthcare professionals prescribing an inhaler should ensure that the patient knows how to use the device (s). If they are initiating it, they should know how to use it and be competent in teaching usage. Initial prescribers should be able to demonstrate device techniques correctly and clearly to the patient and/or carers. This ability should also apply if a clinician is reviewing a patient, and their continued need for medication.
- 2 If the prescription is for a repeat medication, the prescriber should have assurance that an appropriate assessment of continued need and ability to use has been made and that there is a further appropriate review date planned.
- 3 No inhaler should be prescribed without knowing that the person receiving it can use it. This may involve watching, instructing, reinforcing and repeating. It should be agreed who is undertaking the role.
- 4 Device technique should be checked either on the prescribed device or with a relevant placebo device (note these are for single patient use only). Whilst a device may be demonstrated to the patient using a placebo device, once a prescription has been issued, the person's technique on that device should be reviewed regularly thereafter.
- 5 Inhaler technique should be an essential part of any respiratory consultation and review.
- 6 Any proposed changes to an inhaler prescription should be undertaken only after technique and, if possible, adherence is reviewed.
- 7 No patient should be switched to an alternative device until it has been established that they can use it effectively and they consent to the change.
- 8 All healthcare professionals who work with people using inhalers should understand the fundamental difference between pressurised metered dose inhalers (pMDI) and dry powder inhalers (DPI) and their inspiratory requirements;
 - pMDI - Slow and steady**
 - DPI - Quick and deep**
- 9 Advice should be given on the care, maintenance and storage of the device (including spacer devices) in line with the manufacturer's instructions. Devices should be replaced according to the manufacturers' instructions and good practice guidelines.
- 10 Patients should be advised against regularly testing the device and wasting doses. However, they will need to be advised on priming devices, storage, and how to tell when the devices are empty as not all have dose counters.
- 11 A review of inhalers prescribed is an essential part of a respiratory review. Monitoring and addressing adherence should form part of this review.
- 12 There should be a regular audit of the quantity of inhalers prescribed and collected by individual patients (not just the number of prescriptions), considering all points of access.

Seven Steps to using inhaler devices

Whilst it is beyond the scope of this document to list assessment criteria for each inhaler device, there are basic steps that are pertinent to all inhalers.

These should form the basis of a competency assessment for the patient (Appendix 2).

Seven Steps to using an inhaler device:

1. Prepare the inhaler device
2. Prepare or load the dose
3. Breathe out, fully and gently, but not into the inhaler
4. Place inhaler mouthpiece in the mouth and seal the lips around the mouthpiece
5. Breathe in:
 - pMDI: Slow and steady
 - DPI: Quick and deep
6. Remove inhaler from the mouth and hold the breath for up to 10 seconds
7. Wait for a few seconds then repeat as necessary

If these areas are covered then specifics pertinent to each inhaler device can be assessed and technique optimised.

An Inhaler Devices Assessment (Appendix 1) or Patient Competency Checklist can be used for review (Appendix 3).

With acknowledgment and thanks to Anna Murphy (simplestepseducation) for the use of a Seven Step approach and a patient competency assessment. www.simplestepseducation.co.uk

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Appendix 1 Inhaler Device Assessment Example

	Type of Inhaler Device	1st Assessment		Comment	2nd Assessment		Date	Date
		Correct	Not Sure		Correct	Not Sure		
1	Metered Dose Inhaler (pMDI) <ol style="list-style-type: none"> 1. Remove mouthpiece cover 2. Shake the inhaler 3. Breathe out as far as is comfortable 4. Place inhaler in mouth and close your lips around it 5. As you breathe in press the canister down and continue breathing in slow and steady 6. Remove device from mouth and hold breath for up to 10 seconds 7. Wait for a few seconds before repeating the dose and repeat the process if needed. Then replace the mouthpiece cover 							
2	Spacer device & pMDI <ol style="list-style-type: none"> 1. Remove cap & shake the inhaler 2. Insert inhaler into spacer through the hole at the end 3. Breathe out gently as far as is comfortable 4. Place spacer mouthpiece in mouth and close lips around it 5. Press canister down & breathe in deeply (or tidal breathe, several breaths in and out). If the device whistles your breath is too fast (small spacer) 6. Remove from mouth and hold breath for up to 10 seconds 7. Wait a few seconds and repeat process if needed 							

Appendix 2 Competency Statements

This document assesses competency in the administration of medication via an inhaled route using the correct technique for the inhaler device prescribed.

Assessment Criteria	Good	Advice Given	Assessment Date	Signature
<p>Ensures that the patient receives and understands the relevant information regarding the inhaled medication to be administered.</p> <p>This may include the medication name, purpose, dose, frequency, side effects etc.</p>				
<p>Can identify the type of inhaler device that has been prescribed for the patient:</p> <p>Accuhaler Aerolizer Autohaler Breezhaler Clickhaler Easi-breathe Easyhaler Ellipta Forspiro Genuair Handihaler Metered Dose Inhaler Metered Dose inhaler with a spacer device NEXThaler Novolizer Respimat Soft Mist Inhaler Spiromax Turbohaler Twisthaler Zonda</p> <p>and use of spacer devices with and without face masks.</p>				
<p>Demonstrates the ability to instruct the patient or carer to use the correct technique for the inhaler (s) that they have been prescribed.</p>				
<p>Identifies that the patient is using an optimal technique when taking inhaled medication.</p> <p>This may include the use of tools to reinforce good technique (AIMS, 2tone, Incheck, trainer whistles, aerochamber, online resource).</p>				

This document assesses competency in the administration of medication via an inhaled route using the correct technique for the inhaler device prescribed.

Assessment Criteria	Good	Advice Given	Assessment Date	Signature
<p>Identifies any potential problems that may affect the patient's ability to take the inhaled medication.</p> <ul style="list-style-type: none"> - Lack of Manual Dexterity - Inability to co-ordinate press and breath manoeuvre (pMDI only) - Reduced ability to follow instructions - Impaired sight <p>Insufficient inspiratory flow rate DPI Excessive inspiratory flow rate pMDI Inability to hold breath for minimum (5) seconds</p>				
<p>Identifies & takes the correct course of action if a problem is identified with the patient's ability to take prescribed inhaled medication</p>				
<p>Demonstrates safe practice in relation to:</p> <ul style="list-style-type: none"> Prevention of cross infection Minimising the risk of cross infection 				
<p>Demonstrates safe practice and delivery of advice in relation to:</p> <ul style="list-style-type: none"> Priming of device Mouth Care Skin care for spacers with masks Cleaning of device Storage of device <p>Completes the appropriate documentation Demonstrates evaluation and documentation of the effectiveness of the medication i.e. impact on patient's symptoms</p>				

Appendix 2 Competency Statements

This document assesses competency in the administration of medication via an inhaled route using the correct technique for the inhaler device prescribed.

Assessment Criteria	Good	Advice Given	Assessment Date	Signature
<p>Related Knowledge - Is able to:</p> <ul style="list-style-type: none"> • State the indications for the inhaled medication prescribed in relation to the patient's condition • Discuss the effects of the inhaled medication being administered. • Can discuss the side effects of the inhaled medication • Can identify and discuss the different types of medication used to treat respiratory conditions available in an inhaler format • Can identify and discuss the correct procedure for administering inhaled medications in the variety of formats as stated in the range • State the appropriate action to take if not familiar with the medication prescribed 				

Signature Assessor: _____ Signature of Assessed: _____

Appendix 3 Patient Competency Checklist

Step	Action	Device		Device		Device	
		Competent	Unable to Use	Competent	Unable to Use	Competent	Unable to Use
1	Prepare the inhaler device						
2	Prepare or load the dose						
3	Breathe out but not into the inhaler						
4	Place inhaler mouthpiece in mouth and seal lips around the mouthpiece						
5	Breathe in pMDI : Slow and Steady DPI: Quick and Deep						
6	Remove from mouth and hold breath for up to 10 seconds						
7	Wait a few seconds before repeating as necessary. Then replace caps						



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