



August 2017

# PSNC Briefing 051/17: Clinical audit: LABA bronchodilator being used as monotherapy for the treatment of asthma without a corticosteroid inhaler

## Introduction

The NHS Community Pharmacy Contractual Framework (CPCF) includes a requirement that community pharmacies undertake two clinical audits each year. NHS England determines the topic of one of the audits and pharmacy contractors are free to determine the topic of the second audit.

This audit has been developed by PSNC for use by pharmacy teams as a pharmacy-determined audit.

#### The focus of the audit

Every 10 seconds someone in the UK is having a potentially life-threatening asthma attack. Shockingly asthma attacks kill three people each day and the UK has amongst the highest death rates from asthma in Europe. Most tragically many of these deaths could be prevented.<sup>1</sup>

The <u>National Review of Asthma Deaths</u> (NRAD), published in 2014, was the first UK-wide investigation into asthma deaths, commissioned by the <u>Healthcare Quality Improvement Partnership</u> on behalf of NHS England and the Department of Health. It looked at deaths from asthma between 1st February 2012 and 31st January 2013.

The NRAD found wide-ranging and widespread issues with the quality of asthma care amongst those who died. In particular, people did not receive key elements of routine care and prescribing errors were widespread. One of the key recommendations from the NRAD for medical and professional care was 'The use of combination inhalers should be encouraged. Where long-acting beta agonist (LABA) bronchodilators are prescribed for people with asthma, they should be prescribed with an inhaled corticosteroid in a single combination inhaler.'

This audit therefore aims to identify patients who have been prescribed a LABA who have not been prescribed or are not using an inhaled corticosteroid in a single combination inhaler, and to provide advice to these patients about the importance of regularly using an inhaled corticosteroid.

Formoterol and salmeterol are LABAs which are used as add-on therapy for patients whose asthma is not controlled using an inhaled short-acting  $\beta 2$  agonist and standard-dose inhaled corticosteroid. They are the first choice for add-on therapy; they improve lung function and symptoms, and decrease asthma attacks.<sup>2</sup>

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<sup>&</sup>lt;sup>1</sup> Asthma UK Briefing: The UK National Review of Asthma Deaths (May 2014)

<sup>&</sup>lt;sup>2</sup> <u>Medicines and Healthcare products Regulatory Agency: Asthma long-acting β2 agonists: use and safety December</u> <u>2014</u>



Patients who have asthma should not use an inhaled LABA, without also using a regular inhaled corticosteroid. When used alone, inhaled LABAs have been associated with a, sometimes severe, worsening of asthma in some patients. In clinical practice, it is generally considered that combination inhalers aid adherence and have the advantage of guaranteeing that the LABA is not taken without the inhaled corticosteroid.<sup>3</sup>

Please note this audit is aimed specifically at patients with asthma, as patients with chronic obstructive pulmonary disease (COPD) can be prescribed an inhaled LABA as maintenance therapy without an inhaled corticosteroid if the Forced Expiratory Volume in 1 second ( $FEV_1$ ) is 50% of predicted or more.<sup>4</sup>

## How do I undertake the audit?

- 1. To collect a useful sample for this audit it is suggested that data is collected over approximately **one month**.
- You can record details of each patient who presents a prescription for a LABA (either Formoterol (Foradil, Oxis) or Salmeterol (Serevent) on the audit questionnaire and work through the questions with them (Annex A).
- 3. The data from the audit questionnaires can then be collated on the audit data collection form (Annex B).
- 4. If you need to refer a patient to their GP, you could consider using the template referral letter (Annex C).
- 5. Once you have collated the data, you can then complete the audit summary (Annex D).

Standalone copies of the documents in Annex A-D can be downloaded from psnc.org.uk/audit

# **Audit sample**

All patients who have a prescription for a LABA inhaler for the treatment of asthma, who are not also being prescribed a corticosteroid inhaler or who are being prescribed a corticosteroid inhaler, but who are not using it.

#### **Audit standards**

#### Standard 1

All patients prescribed a LABA inhaler for the treatment of asthma should also be using an inhaled corticosteroid on a regular basis.

#### Audit standard 100%

Action points before or after the audit may include speaking to your local GPs to explain the audit and what feedback or referral they would like. Pharmacists may also want to consider offering a targeted MUR to appropriate patients, to help develop their understanding of the management of their condition and the use of their medicines.

#### Standard 2

All patients presenting prescriptions for a LABA for the treatment of asthma are offered verbal advice about their medicine, including the importance of regular use of an inhaled corticosteroid.

# Audit standard 100%

For this audit, the intention is to identify patients who are not offered verbal advice because someone else collects the medicine or it is delivered to them (including care homes), in order that the pharmacist can ensure that appropriate advice is provided to the patient by phone or by another method.

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<sup>&</sup>lt;sup>3</sup> SIGN 153 British guideline on the management of asthma (September 2016)

<sup>&</sup>lt;sup>4</sup> National Institute for Health and Care Excellence: Chronic obstructive pulmonary disease in over 16s: diagnosis and management (June 2010)



#### LABAs licensed for asthma

- Formoterol (Foradil, Oxis)
- Salmeterol (Serevent)

## **Corticosteroid inhalers**

- Beclometasone dipropionate (Asmabec clickhaler, Clenil Modulite, Qvar)
- Budesonide (Budelin Novolizer, Pumicort)
- Ciclesonide (Alvesco)
- Fluticasone propionate (Flixotide)
- Mometasone furoate (Asmanex)

If you have any queries on this PSNC Briefing or you require more information, please contact Zainab Al-Kharsan, Service Development Pharmacist.

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# **Annex A: Audit questionnaire**

A standalone copy of the questionnaire can be downloaded from <a href="mailto:psnc.org.uk/audit">psnc.org.uk/audit</a>

| Screening questions  |   |  |         |  |  |  |  |  |  |
|--|---|--|---------|--|--|--|--|--|--|
| Q1. What indication is the patient using the LABA inhaler for?   |   |  |         |  |  |  |  |  |  |
| Asthma - If for asthma, go to Q2.  |   |  |         |  |  |  |  |  |  |
|  | COPD - If for chronic obstructive pulmonary disease (COPD), the audit is not applicable as it is aimed at patients with asthma. No further questions need to be asked for this audit.                                       |  |         |  |  |  |  |  |  |
|  | Not known - If the patient does not know why they are taking the LABA, complete the audit and try to  |  |         |  |  |  |  |  |  |
| _  | contact the GP practice to confirm the indication. If the LABA is being used to treat asthma, the answers can be included in the audit; if it is being used to treat COPD then the results cannot be included in the audit. |  |         |  |  |  |  |  |  |
| Q2.  |   | nt also using a corticosteroid inhaler?  |         |  |  |  |  |  |  |
|  | Yes - audit is complete, no further questions need to be asked for the audit.   |  |         |  |  |  |  |  |  |
|  | No - please complete the patient information below and the remaining questions.   |  |         |  |  |  |  |  |  |
| Patie  | ent informa   | tion                                     |         |  |  |  |  |  |  |
|  | Patient's name  |  | Date    | e of birth   |  |  |  |  |  |
| GP p   | ractice   |  | Dat     | Date   |  |  |  |  |  |
| Q3.  | Has the pat   | ient ever been prescribed a corticostero | oid inl | haler?   |  |  |  |  |  |
|  | No  |  |         | Yes, but stopped taking it as they say it was helping their asthma     |  |  |  |  |  |
|  | Yes, but stopped taking it due to side effects  |  |         | Yes, but the patient has run out of their inhale                       |  |  |  |  |  |
| Yes - other reason (please provide details below)  |   |  |         |  |  |  |  |  |  |
| Q4. Is the patient using the corticosteroid inhaler regularly? (using it every day as prescribed)  |   |  |         |  |  |  |  |  |  |
|  | Yes   |  |         | Unknown  |  |  |  |  |  |
|  | No  |  |         |  |  |  |  |  |  |
| Action taken   |   |  |         |  |  |  |  |  |  |
| Q5. Did you refer the patient to the prescriber?   |   |  |         |  |  |  |  |  |  |
|  | Yes   |  |         | No   |  |  |  |  |  |
| Q6. Did you provide verbal advice to the patient about their medicine, including the importance of regular use of an inhaled corticosteroid? |   |  |         |  |  |  |  |  |  |
|  | Yes   |  |         | Unable to speak to patient as their medicines were delivered           |  |  |  |  |  |
|  | □ No  |  |         | Unable to speak to patient as representative collected their medicines |  |  |  |  |  |
|  | Data not recorded   |  |         |  |  |  |  |  |  |

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# Annex B: Audit data collection form

A standalone copy of the audit data collection form can be downloaded from <a href="mailto:psnc.org.uk/audit">psnc.org.uk/audit</a>

Collate the answers from the audit questionnaires using a 5-bar gate approach  $^{1}$ M and then add these up to give you the totals for each question.

| the totals for each question.  |   |   |       |  |  |  |
|--|---|---|-------|--|--|--|
| Q1. What indication is the patient using the LABA inhaler for?   |   |   |       |  |  |  |
| Asthma   |   |   | Total |  |  |  |
| COPD   |   |   | Total |  |  |  |
| Not known  |   |   | Total |  |  |  |
| Q2. Is the pati  | ent also using a corti                      | icosteroid inhaler?   |       |  |  |  |
| Yes  |   |   | Total |  |  |  |
| No   |   |   | Total |  |  |  |
| Q3. Has the pa   | tient ever been pres                        | scribed a corticosteroid inhaler?                           |       |  |  |  |
| No   |   |   | Total |  |  |  |
| Yes, but stoppe<br>side effects  | ed taking it due to                         |   | Total |  |  |  |
|  | ed taking it as they<br>elping their asthma |   | Total |  |  |  |
|  | itient has run out                          |   | Total |  |  |  |
| Yes - other rea  | son (please                                 |   | Total |  |  |  |
| provide details  |   |   |       |  |  |  |
| Q4. Were pati  | ents using the cortic                       | osteroid inhaler regularly? (using it every day as prescril | bed)  |  |  |  |
| Yes  |   |   | Total |  |  |  |
| No   |   |   | Total |  |  |  |
| Unknown  |   |   | Total |  |  |  |
| Q5. Did you refer the patient to the prescriber?   |   |   |       |  |  |  |
| Yes  |   |   | Total |  |  |  |
| No   |   |   | Total |  |  |  |
| Q6. Did you provide verbal advice to the patient about their medicine, including the importance of regular use of an inhaled corticosteroid? |   |   |       |  |  |  |
| Yes  |   |   | Total |  |  |  |
| No   |   |   | Total |  |  |  |
| Data not recorded  |   |   | Total |  |  |  |
| _  | ak to patient as<br>s were delivered        |   | Total |  |  |  |
| Unable to spea   | ak to patient as<br>collected their         |   | Total |  |  |  |
| medicines  |   |   |       |  |  |  |

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# **Annex C: Audit data summary**

A standalone copy of the audit data summary can be downloaded from psnc.org.uk/audit

# Audit - Data Summary

| Audi | t period:  | Total |
|------|--|-------|
| Α    | Number of patients with asthma presenting prescriptions for a LABA (This total will have     |       |
|      | been captured in Q1 on the data collection form)   |       |
| В    | Number of patients identified using a LABA without a corticosteroid inhaler (This total will |       |
|      | have been captured in Q2 on the data collection form as the number of patients who           |       |
|      | answered 'No')   |       |
| C    | Number of patients who were offered verbal advice about their medicine, including the        |       |
|      | importance of regular use of an inhaled corticosteroid. (This total will have been captured  |       |
|      | in Q6. on the data collection form)  |       |

#### Standard 1

All patients prescribed a LABA inhaler for the treatment of asthma should also be using an inhaled corticosteroid on a regular basis.

Audit standard 100%

Standard 1 = [B] / [A] x 100 = .....%

#### Standard 2

All patients presenting prescriptions for a LABA for the treatment of asthma are offered verbal advice about their medicine, including the importance of regular use of an inhaled corticosteroid.

Audit standard 100%

Standard 2 = [C] / [A] x 100 = .....%

# Three possible action points from the audit to improve practice

- If Standard 1 is below 100% consider talking to the local GPs and asking how they would like feedback or referral. You could consider using the template referral form.
- If Standard 2 is below 100% consider how you might access the patients who do not receive advice, e.g.
  contact them by phone, put a note on their prescription bag to ask patients to come in for a Medicines Use
  Review (MUR) or explore the possibility of offering them a domiciliary MUR.
- Consider offering a targeted respiratory MUR to all patients using a LABA inhaler (they will need to be
  prescribed at least one other medicine to be suitable for an MUR) to discuss whether they are being
  prescribed/using a corticosteroid inhaler and the risks of using the LABA inhaler without a corticosteroid
  inhaler.

Please record your action points for improvement here

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# **Annex D: Community pharmacy referral form**

A standalone copy of the community pharmacy referral form can be downloaded from <a href="mailto:psnc.org.uk/audit">psnc.org.uk/audit</a>

| Community pharma   | Date |                             |  |  |  |  |  |
|--|------|-----------------------------|--|--|--|--|--|
|  |      |                             |  |  |  |  |  |
| To (GP practice name)  |      |                             |  |  |  |  |  |
| Patient's name   |      |                             |  |  |  |  |  |
| Patient's address  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
| Patient's DOB  |      | NHS number<br>(where known) |  |  |  |  |  |
| This patient who has asthma has been identified as using a long-acting beta agonist without an inhaled corticosteroid. The patient has agreed that you may be notified of this, as there may be a need for their therapy to be reviewed. |      |                             |  |  |  |  |  |
| Additional comments (e.g. actions taken following intervention such as inhaler technique check and/or Medicines Use Review)  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
|  |      |                             |  |  |  |  |  |
| Pharmacy name  |      |                             |  |  |  |  |  |
| Address  |      |                             |  |  |  |  |  |
| Telephone  |      |                             |  |  |  |  |  |

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