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National COPD Audit Programme

Time to take a breath

National Chronic Obstructive Pulmonary Disease (COPD) Audit Programme: National primary care audit (Wales) 2014–2015

National clinical audit
Executive summary
October 2016

Prepared by:

Royal College of Physicians

In partnership with:

Royal College of General Practitioners

British Thoracic Society

British Lung Foundation
The Royal College of Physicians
The Royal College of Physicians (RCP) plays a leading role in the delivery of high-quality patient care by setting standards of medical practice and promoting clinical excellence. The RCP provides physicians in over 30 medical specialties with education, training and support throughout their careers. As an independent charity representing 30000 fellows and members worldwide, the RCP advises and works with government, patients, allied healthcare professionals and the public to improve health and healthcare.

The Clinical Effectiveness and Evaluation Unit (CEEU) of the RCP runs projects that aim to improve healthcare in line with the best evidence for clinical practice: guideline development, national comparative clinical audit, patient safety and quality improvement. All of the RCP’s work is carried out in collaboration with relevant specialist societies, patient groups and NHS bodies. The CEEU is self-funding, securing commissions and grants from various organisations including NHS England (and the Welsh and Scottish equivalents) and charities such as the Health Foundation.

Healthcare Quality Improvement Partnership (HQIP)
The National COPD Audit Programme is commissioned by the Healthcare Quality Improvement Partnership (HQIP) as part of the National Clinical Audit Programme (NCA). HQIP is led by a consortium of the Academy of Medical Royal Colleges, the Royal College of Nursing and National Voices. Its aim is to promote quality improvement, and in particular to increase the impact that clinical audit has on healthcare quality in England and Wales. HQIP holds the contract to manage and develop the NCA Programme, comprising more than 30 clinical audits that cover care provided to people with a wide range of medical, surgical and mental health conditions. The programme is funded by NHS England, the Welsh Government and, with some individual audits, also funded by the Health Department of the Scottish Government, DHSSPS Northern Ireland and the Channel Islands.


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Royal College of Physicians
Clinical Effectiveness and Evaluation Unit
11 St Andrews Place
Regent’s Park
London NW1 4LE

www.rcplondon.ac.uk/COPD @NatCOPDAudit #COPDAudit #COPDtakeabreath
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<td>Authors</td>
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<td>Related publications</td>
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<td>• National Institute for Health and Care Excellence. <em>Smoking: supporting</em></td>
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<td><em>units in England and Wales 2014</em>. National clinical audit report. London: RCP,</td>
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**Contact**

COPD@rcplondon.ac.uk
Report preparation

This report was written by the following, on behalf of the national COPD primary care audit 2014–15 workstream group. (The full list of workstream group members is included at Appendix C of the full audit report.)

Dr Noel Baxter
Clinical Lead, National COPD Audit Programme Primary Care Workstream; Co-Lead, London Respiratory Strategic Clinical Network and London Clinical Senate ‘Helping Smokers Quit’ programme; Chair, Primary Care Respiratory Society UK (PCRS-UK); NHS GP; and Clinical Lead, NHS Southwark Clinical Commissioning Group

Professor C Michael Roberts MA MD FRCP ILTHE FAcadMEd
Associate Director, Clinical Effectiveness and Evaluation Unit, Care Quality Improvement Department, Royal College of Physicians, London; Programme Clinical Lead, National COPD Audit Programme; and Consultant Respiratory Physician, Whipps Cross University Hospital, Barts Health, Barts and The London School of Medicine and Dentistry, Queen Mary University of London

Ms Juliana Holzhauer-Barrie MA
Project Manager, National COPD Audit Programme, Clinical Effectiveness and Evaluation Unit, Care Quality Improvement Department, Royal College of Physicians, London

Ms Viktoria McMillan
Programme Manager, National COPD Audit Programme, Clinical Effectiveness and Evaluation Unit, Care Quality Improvement Department, Royal College of Physicians, London

Mr Muhammad Saleem Khan MPH MSc
Data Manager, National COPD Audit Programme, Clinical Effectiveness and Evaluation Unit, Care Quality Improvement Department, Royal College of Physicians, London

Ms Emma Skipper PGDip
Programme Manager (until April 2016), National COPD Audit Programme, Clinical Effectiveness and Evaluation Unit, Care Quality Improvement Department, Royal College of Physicians, London

We would specifically like to acknowledge the input of Mr Sunil Rai, Data Coordinator for the Falls and Fragility Fracture Audit Programme, in the production of this report.
Foreword

Chronic obstructive pulmonary disease (COPD) inflicts a huge toll on individual patients, their carers, and on the NHS. In total, 1.2 million people in the UK have been diagnosed with COPD and 30000 people die of the disease each year. In 2012 in Wales, the prevalence of diagnosed COPD was 2173 per 100000 people. The death rate from COPD in Wales is higher than in the UK generally, as are the rates of emergency admission to hospital for COPD.

Previous national COPD audits have concentrated on acute management of COPD in secondary and tertiary care, but the current National COPD Audit Programme (commissioned in 2013) includes an audit of primary care for the first time. The original focus of the primary care audit was to collect data from practices in England and Wales relating to the routine care of people with COPD, which went beyond that provided by publicly available data sources. The metrics were based on recommendations in the COPD Clinical Guidelines and COPD Quality Standards produced by the National Institute for Health and Care Excellence (NICE) in 2010, 2013 and 2016 respectively.

There have been significant challenges and delays with the audit, due to increasing limitations on data extraction from practices in England. It has, therefore, not been possible to carry out the audit in England beyond publicly available Quality and Outcomes Framework (QOF) data, but it is hoped that this important work can be carried out in England in the future. Meanwhile, thanks should be given to the many health professionals and 280 practices involved in providing valuable information about the care of 48105 people living with COPD in Wales.

Primary care, embedded in a tradition of generalist care, plays a pivotal role in the day-to-day management of people with COPD, 80% of whom will have comorbidity. However, results of the COPD secondary care audit have highlighted the need for better communication between secondary and primary care. The potential in future cycles for the National COPD Audit Programme primary care data to be linked to the secondary care data provides an opportunity for better integrated care between community and hospital services.

The data included in this report show wide variations, some of which may be due to data recording. There are high rates of reporting of Medical Research Council (MRC) breathlessness (dyspnoea) scores in the annual review, but low recording of other key metrics such as oxygen prescribing. Low recording rates could reflect lower standards of care, but also may reflect confusion about appropriate coding. There is undoubtedly a need for greater clarification about what should be asked during a routine COPD review and how this should be recorded.

Exacerbation frequency is an important guide to pharmacological treatment and an important marker of disease severity, and should be integral to efficacy of any COPD review. The recording of drug therapy in patient records is standard practice, yet the recording of the use of a very expensive and potentially harmful therapy, oxygen, is rarely carried out.

This report continues to emphasise the need to record an accurate diagnosis of COPD using the essential tools of chest X-ray and post-bronchodilator spirometry. It also highlights the variation in the prescription of inhaled steroids in COPD management and an underuse of higher value interventions such as smoking cessation and pulmonary rehabilitation. The system should ensure that these vital services are available to patients with COPD in all areas, in a timely and accessible form.

In summary, the first phase of the national COPD primary care audit highlights the need for a national template for COPD review with standardised coding. Confidence in accurate diagnosis of COPD needs to improve. Effectively targeted pharmacological treatments to prevent exacerbations, improve quality of life, relieve breathlessness and treat tobacco dependency, and the individualised mind and body treatment package of pulmonary rehabilitation can greatly improve the quality of life of many people with COPD. This
report provides the springboard for primary care to make sure that the right people get the correct diagnosis and receive effective treatment, whoever they are and wherever they are.

Dr Kevin Gruffydd-Jones FRCGP
Respiratory Lead, Royal College of General Practitioners
Clinical Policy Lead, Primary Care Respiratory Society UK (PCRS-UK)
Executive summary

This comprehensive primary care snapshot audit for Wales in 2014–15 (the first for a UK nation) reports on the clinical effectiveness of COPD care in the general practice setting. This report helps to complete a picture of COPD services in Wales by adding to the recently published national COPD reports about the quality of hospital care\(^5\)\(^6\) and pulmonary rehabilitation services.\(^7\)\(^8\) This is the first time such an audit has been attempted, so part of the process has involved gaining learning about how we can do this better in future cycles. This audit report aims to support primary care clinicians who are currently working under considerable pressure to deliver a high standard of care to people with COPD. We hope to do this by sharing good practice and providing advice on how to address apparent deficiencies in care. To that effect, the report makes the following key recommendations:

We thank the 280 practices and the 48105 people registered with COPD who have taken part in this first of three cycles of audit. In total, we reached 61% of practices in Wales and we expect to build on that in future audit cycles.

This first data extraction and analysis has highlighted areas for quality improvement, and key priorities will be discussed in this report. We have also learned more about data quality, and all organisations should reflect on how they can enable general practice to make the best use of information systems to support future quality improvement.

The results demonstrate that the computerised coding of how a COPD diagnosis is made is not consistent between practices. Consequently, coding provided confidence in diagnosis (recording of an appropriate diagnostic test code and of a result for that test that was consistent with a diagnosis of COPD) for only 14.4% of people on COPD registers. Where there is evidence that spirometry has been performed, one-quarter of the values are not consistent with COPD. We have available to us life-saving and life-enhancing
therapy for people with COPD. These treatments are well evidenced and many are highly cost-effective. The extracted electronic data show there is good provision of many aspects of evidence-based COPD care but there may also be underutilisation of established NICE-advised interventions and potential overuse of harmful or ineffective treatments.

We know from less comprehensive reports and studies from within and outside the UK that Wales is no outlier in this regard. However, this audit programme allows us to grasp the opportunity to improve the outcomes for the tens of thousands of people living with COPD in Wales.

The Wales Respiratory Health Implementation Group (RHIG) has told us that it has already recognised that there is a need to ensure accurate and timely diagnosis as well as more widespread use of the highest value COPD interventions. The RHIG has instituted programmes and resource for better diagnosis and effective and accessible pulmonary rehabilitation programmes. We are confident that this work will show measurable improvement during the life of this audit programme and that the feedback of data to individual practices will inform local quality improvement initiatives.

We would encourage patient groups at the cluster and practice level to work with their general practices to aid further quality improvement. Separate reports, which display these data at a practice level, are already available via the NHS Digital website. Details on how to access these are available on the National COPD Audit Programme’s website. Reports displaying these data at local health board and cluster level will be released later in the autumn of 2016. These reports will help practices and health boards to prioritise their areas for improvement.
Recommendations

A diagnosis of COPD should be made accurately and early. If the diagnosis is incorrect, any subsequent treatment will be of no value.

a. People who have breathlessness and/or cough that does not go away or frequent ‘chest infections’ should have access to health professionals who have been trained to know what to do and have the resources to reach a diagnosis in a timely way. Spirometry is fundamental to a diagnosis of COPD and patients should be assured that their test has been performed and interpreted in the right way.

b. Trained and competent health workers should offer people with a risk factor and symptoms suggestive of COPD a comprehensive and structured assessment.

c. Clinical symptoms, risk factors and evidence of post-bronchodilator airways obstruction are all essential factors when making a diagnosis.

d. People who are at risk of COPD are at a higher risk of lung cancer, and chest X-ray is an essential part of the breathlessness assessment and diagnosis of COPD.

People with COPD should be offered interventions according to value-based medicine principles.12

a. Tobacco dependence treatment is safe, well tolerated and effective at prolonging life: it reduces flare ups and has a wider impact on health. However, it is underused. Health professionals who treat people with COPD should be trained to have the right conversation; to know how to assess dependency; and to feel confident and have the resource to treat it.

b. Flu vaccination is effective and safe but underused in people with COPD. System leaders should identify where variation exists and ensure that people with COPD have the best information to make the right decision for them.

c. Anyone with a Medical Research Council (MRC) breathlessness score of 3 or more should be offered and encouraged to do pulmonary rehabilitation by their primary care health professional and have timely and easy access to an appropriate provider of this evidence-based therapy.

d. Health professionals providing inhaler therapy for COPD should have up-to-date knowledge about what devices are available and ensure that people are able to use their devices (NICE CG101, 1.2.2.11 to 1.2.2.14);3 are offered optimal bronchodilator medication (NICE CG101, 1.1.6);3 and are issued with inhaled corticosteroids (ICS) only when it is likely to be beneficial (NICE CG101, 1.2.2.2 and 1.2.2.3).3 They should ensure that safety of long-term, high-dose inhaled steroids is discussed (NICE CG101 1.1.8).3

People with severe disease (categorised according to the extent of airflow limitation)13 should be identified for optimal therapy. COPD encompasses a broad spectrum of conditions and health statuses and a personalised approach is essential.

a. People having frequent exacerbations of COPD need to be identified, as they are at higher risk of an accelerated decline in their condition and may require specialist review both to manage symptoms and to slow decline. The recording of ‘number of exacerbations in the last year’ allows this group to be better identified by practices and prioritised.

b. Long-term oxygen therapy is a life prolonging intervention for people with COPD who have hypoxia. When primary care health professionals detect low oxygen saturation in the primary care setting, referral to a suitable assessment and review service should be offered. Primary care should record the use of oxygen on patient notes as they would any other long-term medication, to ensure timely review for assessment of safety and effectiveness.
There should be better coding and recording of COPD consultations, prescribing and referrals.

a. As patient access to personal health records improves and patients’ involvement in their own care becomes an expected norm, there will be opportunities to support people with COPD to ‘know their numbers’ or, in other words, to understand why their spirometry test is consistent with COPD. They should be able to record quality of life assessments, their ability and confidence to use inhalers and their understanding of how to help themselves through access to and involvement with self-care documentation and action plans.

b. Much of the variation seen in the data suggests variance in electronic coding. In order to link datasets across the system in the future, we ask the wider system (whether through development of the Systematised Nomenclature of Medicine coding system or other activity) to make standard recording templates available to ensure that the right things are recorded and that health professionals can spend more time with patients by avoiding the time spent on duplicate entries or manual entry. Health boards and clusters of GP surgeries should consider the use of a standardised set of codes and templates.
Quality improvement resources

The National COPD Audit Programme has collated a range of materials to assist with local improvement work. A selection of these is listed below, and further resources will be available on our website (www.rcplondon.ac.uk/copd) in due course.

National Institute for Health and Care Excellence (NICE)


British Lung Foundation (BLF)

The BLF website (www.blf.org.uk) has a lot of patient information and also some useful tools including the COPD patient passport (http://shop.blf.org.uk/products/copd‐passport), the patient guide to oxygen therapy (http://shop.blf.org.uk/collections/lung-healthy-information/products/oxygen-booklet) and the patient guide to exercising with a lung condition (www.blf.org.uk/Page/Exercise‐with‐a‐lung‐condition).

Primary Care Respiratory Society UK (PCRS-UK)

The PCRS-UK website (www.pcrs-uk.org) hosts a range of current educational tools and events and has a large archive of resources. Its core resources include:

- PCRS-UK tobacco addiction and smoking cessation advice, 2016. https://pcrs-uk.org/tobacco-dependency-0
- PCRS-UK table of inhaled drugs. www.pcrs-uk.org/resource/Guidelines-and-guidance/table-inhaled-drugs

Royal College of General Practitioners (RCGP)

The RCGP has produced a guide to quality improvement for general practice to support the whole primary care team on their quality improvement journey. Some of the tools will be familiar, such as clinical audit and significant event analysis, however there are many more ways to take advantage of quality improvement to benefit patients and practices, and the guide is designed to help practices get started: www.rcgp.org.uk/clinical-and-research/our-programmes/quality-improvement.aspx

IMPRESS

IMPRESS is a collaboration between the BTS and the PCRS-UK, hosted by NHS Networks. It hosts a range of resources, including for commissioning and integrated care. For example:


British Thoracic Society (BTS)


Wales-specific


Other

- National Centre for Smoking Cessation and Training (NCSCT). A short training module on how to deliver very brief advice on smoking. [www.ncsct.co.uk/publication_very-brief-advice.php](http://www.ncsct.co.uk/publication_very-brief-advice.php)
References


For further information on the overall audit programme or any of the workstreams, please see our website or contact the National COPD Audit Programme team directly:

National Chronic Obstructive Pulmonary Disease (COPD) Audit Programme
Clinical Effectiveness and Evaluation Unit
Royal College of Physicians,
11 St Andrews Place,
Regent’s Park, London NW1 4LE
Tel: +44 (020) 3075 1526/1502
Email: copd@rcplondon.ac.uk
www.rcplondon.ac.uk/copd
@NatCOPDAudit
#COPDAudit #COPDtakeabreath

If you would like to join our mailing list and to be kept informed of updates and developments in the National COPD Audit Programme, please send us your email address and contact details.

Commissioned by:

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