National COPD Audit Programme

An exercise in improvement

Pulmonary rehabilitation 2017 Clinical and organisational audits

Findings and quality improvement



The audit programme partnership

Working in strategic partnership:









Supported by:





























Imperial College London

Commissioned by:

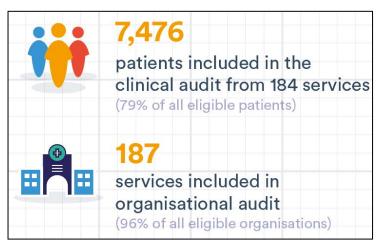


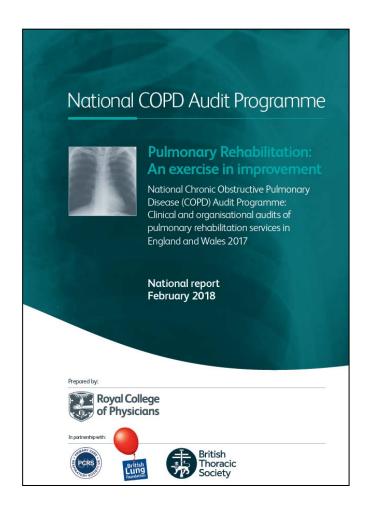
Report overview

- Combined results from clinical and organisational snapshot audits
- Including data from consenting patients and registered services from England and Wales for the early 2017 audit period



Participation







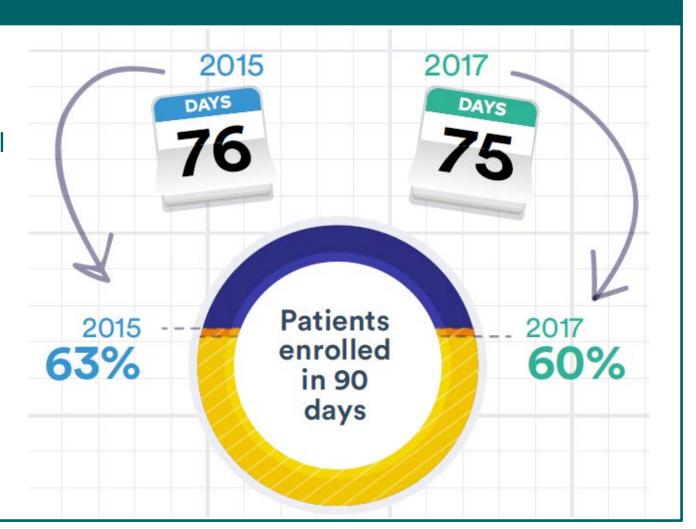
(X) Key findings and recommendations





Key findings

The median waiting time between referral receipt and PR enrolment overall:







Key findings

Waiting times are longer for cohort than rolling programmes:

Cohort programmes



Rolling programmes



Percentage of patients **starting PR within 90 days** is **higher** in **rolling** than **cohort** programmes:

Cohort programmes



Rolling programmes

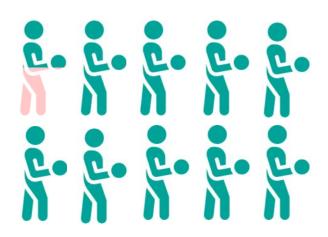


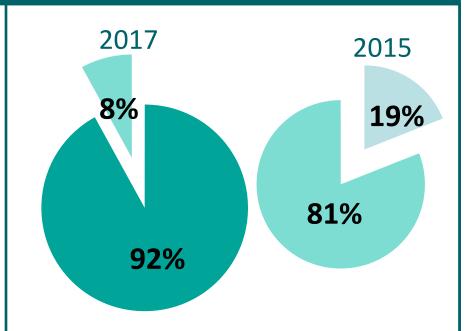




Key findings

Whilst the majority of services accepted patients with conditions other than COPD (eg asthma, lung cancer, heart failure), 5% do not.





92% of services accept patients with more severe disability (**MRC** grade 5), compared to 81% in 2015.





National QI priority



Reduce waiting times



Services should set an achievement target 85% enrolment of those referred for PR within 90 days.



How this priority was derived

BTS Quality Standard 1b^a

People referred for PR should be enrolled within 3 months of service receipt of referral.

Tips on how to achieve this

Services that **solely run cohort** programmes and struggle with waiting times:

 Consider changing to a rolling design (or to a combination of the two) to deliver this objective.

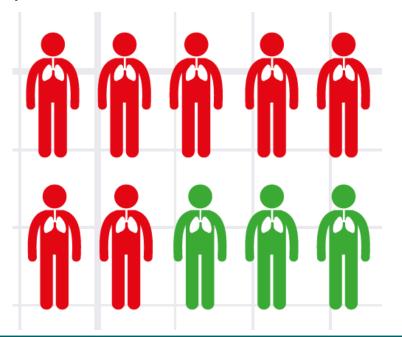


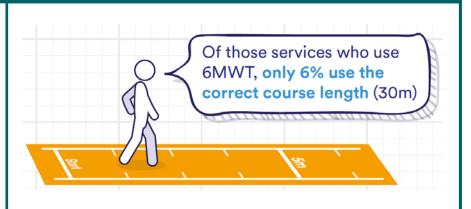


Quality of PR services

Key findings

68% of patients do not complete a recommended practice exercise test





* 6MWT = six minute walk test



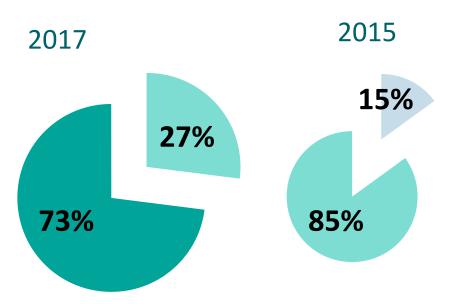
10% of services did not offer individually prescribed aerobic or resistance training





Quality of PR services





27% of patients had an assessment of muscle strength at baseline in 2017, a considerable improvement from 15% in the 2015 audit



84% of services (67% 2015) have a standard operating procedure for local policies



Spirometry
was reported
for 60% of
patients



BMI was reported for 70% of patients





Quality of PR services

National QI priority



Exercise assessments should be performed to recommended technical standards



Including practice walks and lengths of walking courses

How this priority was derived

2015 audit data^a suggests PR outcomes were better in services that undertook practice walks (17% more likely to complete PR).

Tips on how to achieve this

Space limitations may restrict walking course lengths for the **6MWT**



 Where this is the case, consider switching to the ISWT which requires only a 10m course.

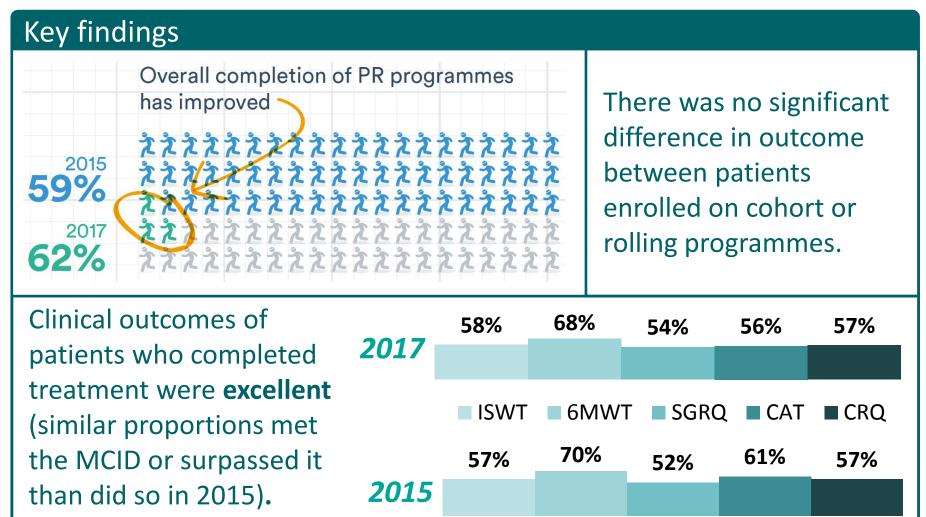


Guidance and standards ^b exist for each test, you might find it useful to use these in your planning.





Outcomes of treatment







Outcomes of treatment

National QI priority



Increase completion rates
Following PR assessment,



patient completion rates should be 70% or more

How this priority was derived

The 2015 PR outcomes report^a found that PR completion was associated with lower hospital admission rates

Tips on how to achieve this

- Review completion rates, to identify non-completion factors
- Develop systems to identify patients at risk of exacerbation and hospital admission
- Implement local strategies with specialist and community COPD teams to improve:
 - Diagnosis, the optimisation of drug treatment, management of co-morbidities, and the promotion of smoking cessation and winter vaccination



? And so, what next?





Using quality improvement methodology to plan a change (SMART)

Look for areas where you can **realistically** make improvements.

Decide on an aim, this should be **SMART**.

Build a **team** and understand your **stakeholders**.

Meet with your team regularly to **performance manage** yourselves, and have **clear responsibilities**.

Plan how you will **achieve** your aim.

 Specific Measurable Achievable • Realistic Time bound

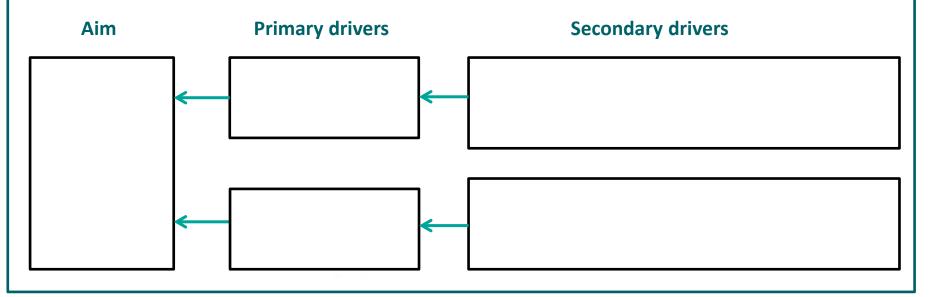




Defining your overall aim (driver diagrams)

To decide what to start on for your overall improvement aim, you may find it helpful to use a driver diagram.

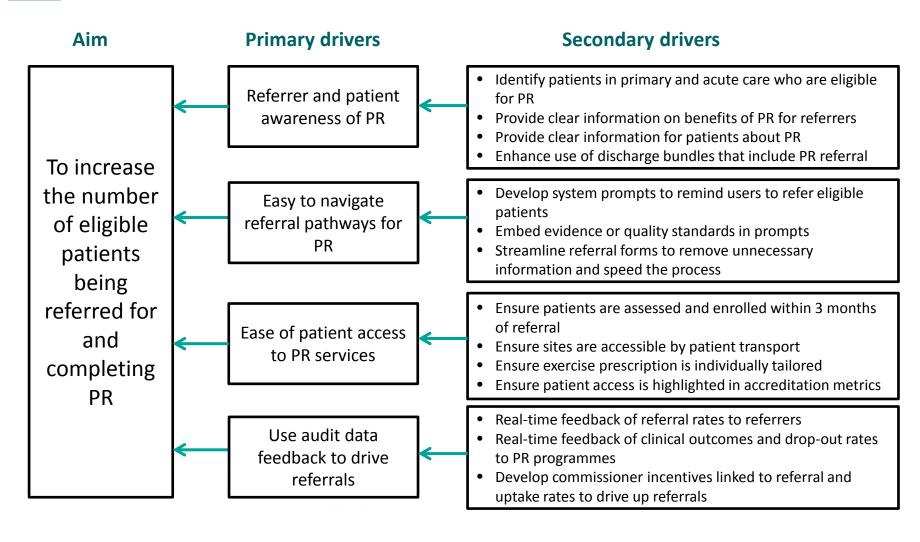
The Institute for Healthcare Improvement has a helpful guide on how to use them http://www.ihi.org/resources/Pages/Tools/Driver-Diagram.aspx







Driver diagram example

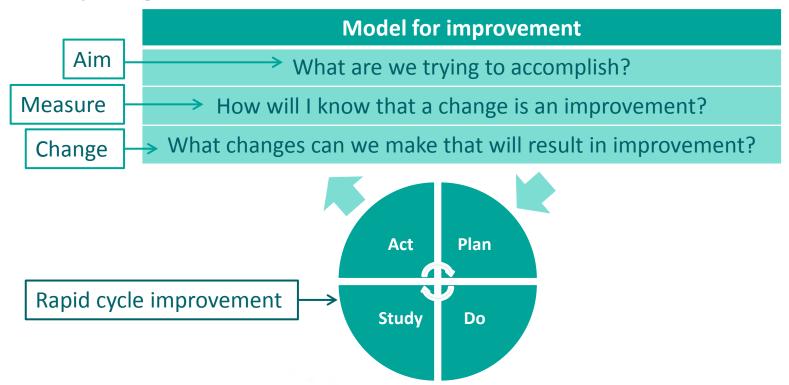






A model for improvement

To plan your change it is important to regularly measure and study your activity using:







The PDSA cycle **Objective Questions and** What changes are to be predictions (why) made? Plan to carry out the Next cycle? Plan Act cycle (who, what, where, when) Study Do Complete the analysis of Carry out the plan the data **Document problems and Compare data to** unexpected observations predictions Begin analysis of the Summarise what was data learned





The PDSA cycle example: non completion by patients

ACT: Identify what still needs to change to improve what you will do next (Next PDSA cycle)

Act

Plan

PLAN: Would changes to the patient information sheets help with non completion rates?

STUDY: Analyse data to see if the rate has improved. Plot the change over time and summarise what you have learned.

Study

Do

DO: Adapt the paperwork and information sheets according to patient feedback, making it more informative and easier to understand.





The PDSA cycle example: non referral by GPs

ACT: Identify what still needs to change to improve what you will do next (Next PDSA cycle)

STUDY: Have your referral Study

rates gone up? Analyse data to see if the rate has. Plot the change over time and summarise what you have

learned.

Act Plan

PLAN: How many patients would you expect to see referred from your local GP surgeries?

surgeries?

Do

DO: Hold awareness raising sessions with GP surgeries in the local area, to discuss it further with GPs and surgery staff.





Case study

Quality
improvement
case study:
BreathingSpace, a
pulmonary
rehabilitation
service in
Rotherham,
describe a QI
project performed
locally to increase
patient
completion.

... to reduce drop out rates [they looked at] providing patients, their families and carers with clear, comprehensive and consistent communication.

80% of patients rated the [new] leaflet as 'useful' or 'very useful'. 85% of health and care professionals rated it ... a useful tool to issue to patients when introducing ... PR.



Raising awareness of pulmonary rehabilitation in the form of a patient information leaflet.

BreathingSpace, Rotherham

Background

In the 2015 PR audit BreathingSpace, Rotherham reported that 21% of patients that were assessed and enrolled to PR did not complete treatment. Therefore to take steps to reduce dropout rates BreathingSpace utilised a communication tools quality improvement methodology.

Aim

Evidence suggests that one of the reasons for non-attendance and non-completion is uncertainty and a lack of understanding of the benefits of PR. ^{24,24}

To increase patient uptake and completion of PR by providing them, their families and carers with clear, comprehensive and consistent communication which is focused on improving the quality of the care they receive.

Process:

An outdated information leaflet was being used across the trust. It was recognised that the leaflet lacked patient input and didn't address the aspects of PR that patients felt were most important.

A patient focus group was conducted with those patients already engaged with PR to help understand better the importance of what they expected to find within the leaflet and include anything that prior to attendance they felt apprehensive about. It was recognised that some patients were unsure about what the term 'rehabilitation' would involve and therefore this was identified as a potential barrier to uptake. In addition to the focus group telephone interviews were conducted with patients that had been identified as having either declined after the initial assessment or enrolled and not completed PR. Both these methods helped broaden the depth of information that was included in the leaflet.

Outcomes:

The new patient information leaflet was distributed trustwide. Patients that received the leaflet and health care professionals providing it were asked to rate the value of its effectiveness. Results showed that 80% of patients rated the leaflet as 'Useful' or 'very useful'. 85% of health and care professionals rated it as being a useful tool to issue to patients when introducing the idea of referral to PR. Governance procedures have been put in place to routinely review and revise the document. Copies of the outdated leaflet have now been withdrawn.





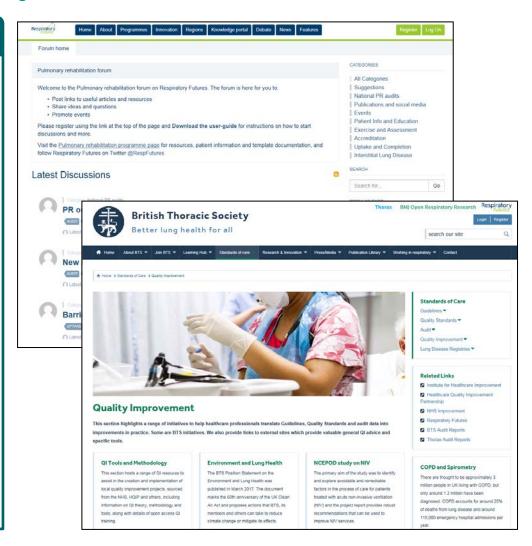


Useful quality improvement resources

Sharing learning

Respiratory Futures have a PR page http://www.respiratoryfutures.org. uk/programmes/pulmonary-<u>rehabilitation/</u> and forum http://www.respiratoryfutures.org. uk/pulmonaryrehabforum

The British Thoracic Society page has useful resources and signposts https://www.britthoracic.org.uk/standards-ofcare/quality-improvement/





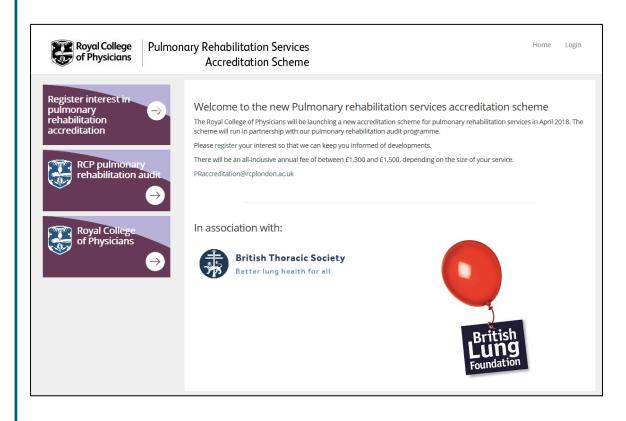


Useful quality improvement resources

Accreditation

Check out the new website for the Pulmonary Rehabilitation Accreditation scheme to read more about the scheme and how to apply

http://www.prsas.org/





National COPD Audit Programme

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