COPD RIGHT CARE

Personalised and safe care, delivering a better experience for people living with COPD

Introduction

www.ipcrg.org/copdrightcare

Definition



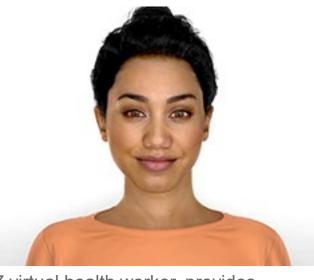
Doing the right things and only the right things in the right way for the right people at the right time in the right place, whatever that means in the local context



PR group in Crete during FRESH AIR



Pulse oximetry, Portugal



WHO's Florence, a 24/7 virtual health worker, provides digital counselling services to those trying to quit tobacco.

Right Care. Lancet Series 2017



With the focus firmly on universal health coverage as a central part to the UN Sustainable Development Goals,

Underuse and overuse of medical and health services exist side-by-side with poor outcomes for health and wellbeing.....

....achieving the right care is both an urgent task and an enormous opportunity.

What inspired it? 1. Asthma Right Care





Episodic asthma care

Responsible to the second of t

Mitigation of chronic risk





What are we doing, and what more can we do?





GP reflects on prescribing practices and adapts





Rear Reser







restriction to prescription-only dispensing

Asthma Right Care



Pharmacists move to prescription only for SABA, and are part of the asthma pathway



Journalists use appropriate images to change the asthma narrative





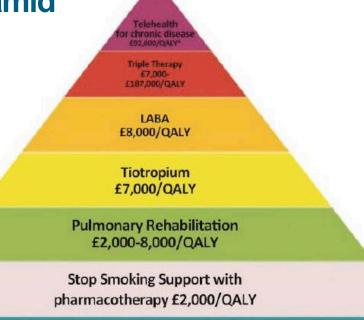


Emergency doctor seizes teachable moment: refers patient back to GP; no SABA without ICS

What inspired it?

2. London Respiratory Network Value Pyramid





ARE

*(not specific to COPD)

Education and training to underpin all implementation; and improved diagnosis to ensure allocation of interventions to the right people

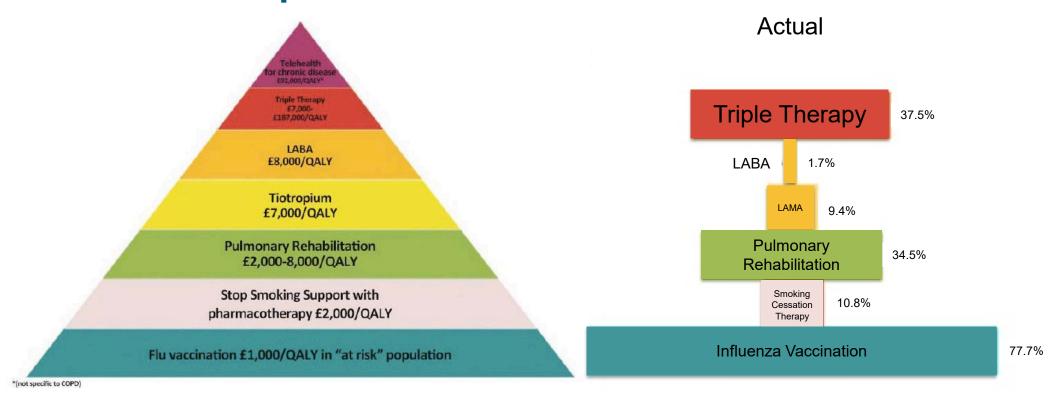
Flu vaccination £1,000/QALY in "at risk" population

First, leadership to build trust between different parts of the system, and respect for primary care, which is the highest value input in a health system: can deliver 90% of a person's health needs over their lifetime, and highly cost-effective

New

Example of how to use it: UK Royal College of Physicians primary care audit Wales 2014-15 published Nov 2016





- Need to tackle underuse, misuse and overuse
- Recognise need multi-professional system-wide approaches
- Integrate personalization
- Patient safety eg appropriate use of ICS

Builds on IPCRG's existing work









Rational Use of Inhaled Medications for Patient with COPD and Multiple Comorl Conditions: Guidance for Primary Care

The dealing helper decides the challenges associated with the pharmacological reprogramme of the pr and making consolid condition with a particular house of the national use of inhabit contents guidance for the holistic own of soil patients in the primary non-setting.

AUTHORISE TYPE

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IPCRG

DESKTOP HELPER

Appropriate use and withdrawal of inhaled corticosteroids (ICS) in patients with chronic obstructive pulmonary disease (COPD)

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ON ICS USE FOR EXCIENTS WITH COPD

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Pulmonary Rehabilitation in the cor



A Referrer's Guide: The essential things you need to know about pulmonary rehabilitation to help breathless people breathe better, feel good and do more!

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Desktop He

Rehabilitation

Desktop Helper No. 7 -Pulmonary rehabilitation in the community

Desktop Helper No. 10 -Rational use of inhaled medications for the patier with COPD and multiple comorbid conditions: Guidance for primary care

Desktop Helper No. 6 -Evaluation of appropriateness of inhaled corticosteroid (ICS) therapy in COPD and guidance on ICS withdrawal



New desktop helper 2022





COPD and Mental Health: Holistic and Practical Guidance for Primary Care

Inefficient breathing

BREATHING

Increased respiratory rate

Use of accessory muscles

Dynamic hyperinflation

Increased work of

breathing

This desktop helper aims to raise awareness of the challenge of identifying and managing mental health problems in people with chronic obstructive pulmonary disease (COPD) and to direct primary care professionals (PCPs) to assessment tools as well as non-pharmacological and pharmacological interventions.

Mental health problems, including anxiety and depression, are common among people with COPD and substantially impact their quality of life (QoL). In countries where tobacco smoking is prevalent, tobacco dependence is an additional factor that can significantly impact on QoL of people with COPD. However, PCPs often have low confidence to treat these problems due to the complex inter-relationships between them and symptoms such as breathlessness, which make assessment and treatment challenging. Estimates suggest that about 30% of people with COPD have comorbid depression (increasing to up to 80% with increasing COPD severity), and between 10% and 50% have comorbid anxiety. 1-3 Prevalence increases with age and as symptoms of COPD worsen, and they can co-exist.3-1 Globally, about 20% of people smoke tobacco,7 although this varies by country, and about 20% of them will develop COPD. Despite this increased risk, smoking rates remain high following a diagnosis of COPD.9,10 Mono-disease guidelines that facus on only one element are inadequate and auidance for PCPs is lacking.

COPD AND MENTAL HEALTH

Despite strong evidence of a high prevalence of depression and anxiety in people with COPD these comorbidities are underdiggnosed and undertreated, COPDrelated depression and/or anxiety is associated with poorer QoL, more persistent smoking, worse adherence to treatment plans, more hospital admissions. readmissions and exacerbations, lower selfmanagement rates, poorer survival and higher care costs than for people without psychological comorbidities.¹¹ Indeed, breathlessness, depression, anxiety and exercise tolerance are more correlated with health status than the widely used spirometric values,12 People with COPD often report feelings of isolation and mental illness can increase this isolation due to societal and self-imposed stigma resulting

in a cycle of decline which can impact QoL and impair adherence to COPD BREATHLESSNESS AND

Decanditioning of limb,

chest wall and

accessory muscle

PSYCHOLOGICAL DISTRESS

Breathlessness is a core and complex symptom among people with COPD. It is not only the subjective perception of breathlessness but a person's reactions and responses to the sensation that matter. 15 The 'Thinking' negative cycle in the Breathing-Thinking-Functioning (BTF) model (see diagram above) offers a way of understanding how thoughts affect and are affected by breathing and also physical activity; it also suggests how we can break

Attention to the sensation of breathlessness, memories of pas experiences, misconceptions and thoughts about dying can contribute to anxiety, feelings of panic, frustration, anger and low mood, which in turn reinforce unhelpful and unrealistic thoughts and images. Conversely, interventions to address these negative thoughts in relation to preathlessness and manage symptoms of anxiety and law mood have the potential to improve QoL and improve adherence to

Thoughts about dying

Attention to the

Memories, post

THINKING

BREATHLESSNESS

FUNCTIONING

Reproduced with permission of the Combridge Breathlessness Intervention Service. 15

Reduced activity

lendency to self-isolate

More help from others

experiences

Anxiety, distress

Feelings of panie

TOBACCO USE AND POOR MENTAL HEALTH

While smoking rates are not high among people with COPD in all countries, where > ◀ they are, the strong association between tobacco use and poor mental health should be considered. Tobacco smokers with mental health disorders tend to be more addicted to smoking, smoke more cigarettes and are more likely to relapse and therefore need support for repeated attempts at quitting. 16-19 Smoking, depression, and anxiety are all associated with higher risk of death in people with COPD. The risk of death, depression and anxiety increases with increasing duration of smoking (years) and cigarette pack-years.²⁰ Yet smoking cessation is effective and is the most important intervention to slow the progression of COPD, increase survival and reduce morbidity,5,21,22 Contrary to popular belief, quitting reduces anxiety and depression. Indeed, the effect size is as large or larger than antidepressants for mood and anxiety disorders.23,24 It can be challenging to differentiate between symptoms of anxiety and of withdrawal, so assess anxiety levels at each appointment

ACTION POINTS TO IDENTIFY MENTAL HEALTH PROBLEMS IN PEOPLE WITH COPD

Good patient-centred consultation skills will help. Recognise depression and anxiety are common comorbidities that can influence COPD outcomes. Anticipate that the individual may have depression or anxiety or both. As you assess for mental health problems employ active listening and avoid interrupting show empathy and observe carefully. Body language and non-verbal signals may offer useful information, for example, long pauses and lack of eve contact during conversation. When considering a diagnosis, take a patientcentred approach and consider whether a 'label' of depressed and/or anxious will be helpful, for example, for the patient's understanding of their situation and for their holistic management.

ASSESSMENT TOOLS

Be aware of physical symptoms such as poor concentration, impaired sleep, fatique or headache, that may be associated with anxiety and depression, and consider using a validated questionnaire if the person has symptoms (see Table 1).

TREATMENT OF MENTAL HEALTH PROBLEMS IN PEOPLE WITH COPD

Care for people with COPD and mental health problems needs a very broad approach recognizing that mind, body, how we interact with people and the environment are all interrelated. A patient-centred approach that focuses on the desires, goals and preferences of the patient is important. Utilize OARS skills to establish and maintain rapport using verbal and non-verbal

to engage with treatment including behavioural activation and physical activity. which can also be helpful for anxiety and

Table 3 details a range of interventions that may be useful to address breathlessness. We appreciate not all of these are accessible, translated, validated, affordable or culturally acceptable in every country, but the list is varied so include those which might be accessible in your setting. For example, the Cambridge Breathlessness Intervention Service offers a range of interventions to address breathlessness related to the "thinking" vicious cycle. 15

able 1: Assessment of mental health problems in people with COPD

any tools have been used in research settings, but in clinical practice PCPs are familiar with these

The WHO-recommended Patient Health Questionnaire 4 (PHQ-4) for very brief measurement of depression and anxiety. This tool can be completed online. Questions 1 and 2 are the GAD2 goviety subscale: Q3 and Q4 are the PHQ2 depression subscale. A score of above 3 on either indicates further evaluation should be undertaken with, for example, the Patient Health Questionnaire 9 (PHQ9) or Generalised Anxiety Disorder Scale (GAD7)

Over the last 2 weeks how often have you been bothered by these problems:

ı	0 = not at all; 1 = several days; 2 = more than half the days; 3 = nearly every day						
ı	Feeling nervous, anxious or on edge	0	1	2	3	A score of 3 or more considered + for	
	Not being able to stop or control worrying	0	1	2	3	anxiety	
ı	Little interest or pleasure in doing things	0	1	2	3	A score of 3 or more	
	4. Feeling down, depressed or hopeless	0	1	2	3	considered + for depression	

Categories of psychological distress based on total score:

- Mild: 3-5
- Moderate: 6-8
- Severe: 9_12

Source: https://qxmd.com/calculate/calculator_476/patient-health-questionnaire-4-phq-4.

- The PHQ9 is used to assess depression, consists of 9 items with a cut-off score of 5 and is available in multiple languages
- The GAD7 is used to assess anxiety and is a 7-item self-report scale, with a cut-off scare of 10 The GAD7 is also available in multiple language

hese tools may be most useful in screening for depression and anxiety and in clarifying a suspected

Table 2: OARS

0	Open questions	To learn about their feelings and beliefs e.g. "Would you like to tell me more about how you feel?" "How do you experience breathlessness?"
A	Affirmations	Be positive and reinforcing; build a relationship and demonstrate empathy "It's great that you are willing to discuss your sadness, I am here to help you."
R	Reflection	"It sounds as though you have thought a lot about your symptoms and you know what to do."
S	Summary	"So let's make a summary of what we discussed."

Source: https://www.euro.who.int/__data/assets/pdf_file/0008/394208/Session-5.pdf

responses and behaviours (Table 2).

People with COPD often have low levels of self-compassion²⁵ and a holistic approach to well-being is essential to address such negative self-perceptions and address mental health problems. Here we consider the evidence for some nonpharmacological and pharmacological interventions feasible in primary care.

NON-PHARMACOLOGICAL INTERVENTIONS

has the potential to increase willingness

However, practitioners under-refer, and of selective serotonin reuptake inhibitors people with COPD commonly fail to attend. (SSRIs; preferred) or, if not available or not appropriate for other clinical reasons. or complete, their PR course; we await results tricyclic antidepressants (TCAs) may be a of the TANDEM trial which is incorporating second-line option for the treatment of CBT to improve PR uptake,2 Exercise in the natural environment has many therapeutic depression.¹¹ Avoid using TCAs in people with severe COPD, due to an increased risk benefits, for both mental and physical health.33 Taking part in nature-based of respiratory centre depression and respiratory failure. Anxiety may be managed activities helps people who are suffering using SSRIs but the evidence is weak,35 from mental ill-health and can contribute to Despite widespread use of henzodiazenines a reduction in levels of anxiety, stress and for COPD, evidence suggests it does not help depression.34 There are no specific studies in with breathlessness and should not be used for this indication, 36 They may be considered for people with acute distressing anxiety for short-term use (no more than 4 weeks) and Effective management of breathlessness at the lowest dose possible.37 Metabolism of using bronchodilator therapy⁵ will contribute antidepressants and anti-anxiety drugs is to easing psychological distress. Treat increased in tobacco smokers who are tobacco dependence with available therefore likely to need higher doses than pharmacotherapy as well as counselling, non-smokers. Success in quitting means you Recommendations regarding antidepressant may need to reduce the dose to compensate

lacking.¹¹ However, we suggest reasonable WHEN TO REFER approaches to management include the use Refer (or direct) people with COPD to appropriate mental health services where

available, including psychology if the patient expresses a preference for nonpharmacological care, or the management of anxiety or depression is not achieved with the interventions available to you. People with COPD and psychosis or suicidal ideation require immediate referral to specialised mental health services

CONCLUSIONS

Improvement of mental health improves COPD outcomes. PCPs caring for people with COPD need communication flexibility and skills to identify depression and anxiety particularly in current smokers and those trying to quit who are at the greatest risk of poor outcomes. Offer smoking cessation support (see the IPCRG Desktop Helper helping patients guit tobacco³⁹) and consider CBT. Draw on available local services to support mental well-being. The value of pharmacological treatment needs more

Cochrane reviews concluded a structured cognitive behavioural therapy (CBT) approach may be effective in reducing depression and anxiety symptoms. 1,26 This approach is feasible and cost-effective in the community delivered by trained practitioners, 27 Incorporating a CBT approach to address breathlessness in COPD and supporting self-management

Holistic care of the person with COPD and comorbidities such as anxiety and depression may be delivered via a multidisciplinary team, where available, who can deliver some or all of the interventions outlined above as well as

Teaching case studies and slides available



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Table 3: Interventions to address breathlessness

Cognitive

Relaxation

techniques

Acupuncture/

psychology

confidence

aiving sense of

people with COPD.

behavioural

Problem-solving approach that challenges unhelpful

increases pulmonary rehabilitation attendance.

thoughts/behaviours; reduces anxiety in COPD in short term;

20-minute mindful breathing reduces breathlessness in lung

disease, and anxiety/depression in advanced disease;

enhances non-evaluative attention and may increase

Some evidence that relaxation interventions can help

Guided imagery ('thinking of a nice place'), progressive

muscular relaxation and counting are most acceptable

Most evidence suggest singing therapy can improve lung

Not evidence-based. However, holistic breathlessness

services reduce anxiety/depression and use positive

Experimental evidence in healthy volunteers for social

presence reducing breathless perception; patients describe

function; some evidence suggest it may improve anxiety and

Improves breathlessness in advanced disease and

may reduce anxiety.

Qol: anecdatal evidence of value

psychology, improving self-efficacy.

reassurance from presence of others

pulmonary rehabilitation (PR). PR improves

anxiety and depression symptoms,32

Pharmacological interventions

medications for people with COPD are for this.38

anxiety, breathlessness and fatigue in COPD.

COPD and Mental Health Film Amanda Barnard interviewing loanna Tsiligianni





https://vimeo.com/710772384

New desktop helper 2022







DESKTOP HELPER

Improving the life of people with COPD by integrating a supportive and palliative approach from diagnosis to end of life

This desktop helper supports a long-term holistic approach to chronic obstructive pulmonary disease (COPD) management. The course and prognosis of COPD can be difficult to predict. Care is directed towards enhancing the quality of life of the individual and their family, slowing progression, reducing symptoms and preventing exacerbations, which is why palliative approaches are useful from the time the COPD diagnosis is communicated. It is important to remember that 'palliative' is a broad term for approaches that address individual needs across the spectrum of COPD.

Figure 1: The high burden of COPD.

International survey of people with

COPD receiving maintenance therapy

INTRODUCTION People live with COPD from years to decades,

experiencing a lower quality of life (QoL), and greater functional limitations, anxiety and depression than others who are the same age without COPD These notentially significant changes in QoL and expectations from life may be improved with enhanced care. highlighting the need for a long-term and holistic approach to support people with COPD, their family and caregivers. Care selection is based on repeated discussion during the evolving prognosis and symptom trajectory, identifying and minimising distressing symptoms and ensuring medical, physical, social and spiritual support. This may include supporting access to supportive and financial care packages from social care and other non-medical services.1 From beginning to end. COPD must be treated using all available appropriate therapies for COPD AND the common co-morbidities such as cardiovascular disease (CVD), depression/ anxiety, diabetes, renal disease, lung cancer and osteoporosis. Treatment must be based on appropriate evaluations and knowledge of the person's functional status and personal goals at each stage of COPD stabilisation and progression (e.g. evaluated at least annually). Variations will depend on the local availability of healthcare and therapies, cultural norms and the individual's beliefs and goals.

IMPACT OF COPD

COPD is a chronic disease that impacts every aspect of life and is often diagnosed after months or years of people reducing or people living with COPD, breathlessness mood, work, family life and self-care care teams and we can also use this (Figure 1),4

to open important discussions. People living

Table 2 provides questions to guide discussion on long-term care to help you explore the broader aspects of care and identify those areas of areatest importance to each individual.

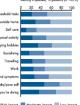
questions then LISTEN to our answers"

An important advantage of care continued over months and years is that the conversations are built upon our previous discussions - our knowledge is cumulative and evolving. Understanding and documenting what the individual and family wants regarding goals, future plans and end of life care/living wills, can ensure their preferences are recorded and available when care may include hospital specialists or hospitalisation. These questions can be set in the Open questions, Affirmation, Reflective listening, Summarising (OARS) framework (see the IPCRG Desktop Helper COPD and mental health www.ipcrg.org/dth12) that helps establish and maintain rapport, assess the individual's needs and personalise your counselling and education responses.5

INCLUDING THE PREFERENCES OF THE PERSON WITH COPD IN THEIR LONG-TERM CARE

the individual's current state by assessing symptom burden (perhaps using the COPD Assessment Test available at https://www.catestonline.org/), functional abilities (e.g. ability to do what they consider important - work, family and social interactions, self-care), the frequency and severity of exacerbations (e.g. may be labelled as episodes of "bad colds" or "acute eliminating activities to lessen breathlessness bronchitis"), and ideas, concerns and independence, ability for self-care or having may be due to a combination of factors to live in a "nursing care facility"). The including common comorbidities such as individual with COPD and their family may heart disease or anxiety.^{2,3} COPD lowers share feelings, frustrations and concerns overall QoL including social interactions, about future needs with others in our primary

information and these team members, help



Adapted from Dekhuijzen et al 20204

A crucial step in the longitudinal care that primary care can provide is understanding

LEARNING ABOUT COMMUNITY To make plans, people need to know what is available to them. Information on local and regional resources needs to be gathered and shared with them, most usefully by someone in the primary care team. In addition, home visits and telehealth video visits may show you where and how the person with COPD lives to facilitate better understanding of or feelings of "air hunger" or fatigue. For expectations (ICE) such as losing opportunities to support their interests and needs for living with COPD and any associated comorbidities

See how Seneth Samaranayake, a GP in Sri Lanka, takes a palliative approach using the resources available in his community in our online Supplementary material S2.

Table 1: The perspectives of people with COPD-what my healthcare team needs to knowl

- My healthcare team needs to know who I am and what my functional status is and what my
- over the last few years? What do you not want? e.a. I never want to go to a nursing home.
- Ask me "What are your thoughts about your life over the next year or if your COPD gets worse?" This is probably best done during in-person visits where the clinician can read body language and give more support.
- Ask me "What do you and your family want us to know and put in your medical record about your goals and future plans?"
- 5. Many of us don't know what we don't know or what to ask. Let us know what our options are by sharing information, a website link or someone to talk to.
- 6 Finally, if you ask then LISTEN to our answers

Thanks to the neonle with COPD who allowed Barbara Yawn to interview them

Table 2: Questions to ask to guide broader care and to record in the medical record

- What brings you here/to this visit?
- Any special concerns from you, your family or your carer?
- Questions to be asked over subsequent visits to help to develop an understanding of
- personalised needs and goals to direct support:
- What is your understanding of where you are with your COPD at this time?
- What are your fears and worries for the future?
- What are your goals.....if time is short?
- What outcomes/consequences/results would be unacceptable to your

See our online Supplementary material S1 for additional questions to help with your conversations importance of these four questions to understand people's priorities at

INCLUDING BREATHLESSNESS

People with COPD may have many symptoms including fatigue, breathlessness, cough, depression, anxiety and sleep disturbance that each require relieving by every primary care clinician working holistically and attending to each and all of the person's needs, irrespective of life

improved if tobacco dependence medicines and support services like "quit lines" are also

Pulmonary rehabilitation (PR) is effective in reducing breathlessness and fatigue and improving health status and exercise tolerance and can reduce rehospitalisation in those who have had a recent exacerbation. It also can reduce symptoms of anxiety and depression.^{8,9} Read more at: www.ipcrg.org/PR.

ACTIVELY MANAGING SYMPTOMS challenging to manage. The severity of breathlessness may bear little relationship to function, with more than 40% of people with mild COPD experiencing moderate to severe breathlessness.10 However, there are a number of non-pharmacological interventions in addition to PR that may also be suggested depending on the cause and individual preferences.11-13 A range of possible interventions are shown in Table 3.

We have insufficient data to present evidence levels to support widespread use of other interventions for breathlessness such Evidence-based smoking cessation is the as positive psychology, singing therapy, most effective intervention to slow the self-hypnosis and laughter therapy, but they progression of COPD in people who are may be useful, balancing individual tobacco dependent (see the IPCRG Desktop preferences and risk assessment. When Helper Helping patients quit tobacco)6 and available and feasible to use, non-invasive employ the Ask, Advise, Act approach at ventilation may also reduce daytime every consultation. 7 Quitting success will be breathlessness in people with advanced

Drug treatments to be used together with non-

pharmacological interventions Inhaled bronchodilators are the first line COPD pharmacotherapy.8,13 Whenever possible, use long-acting single or dual breathlessness, and reduce hyperinflation Breathlessness is the most common thereby reducing symptoms and in some symptom in people with COPD and can be people also reducing the risk of future

exacerbations.¹³ Add corticosteroids when frequent exacerbations cannot be prevented with bronchodilators, by trigger avoidance or, if available, PR.8 Neither inhaled or oral corticosteroids are considered therapy for breathlessness.8 Additional drug options

be.com/watch? y5tBC5R8DYs

Mindfulness

available health and social services, faith Table 3: Non-pharmacological interventions to address breathlessness and exercise capacity Can relieve breathlessness and fatique, improves emotional state and rehabilitation enhances person's sense of control over their condition - moderately large and clinically significant improvements Good evidence of short-term benefit from using a fan (static or hand held), relieving breathlessness at rest and reducing recovery time after activity. Movement of air over a person's face is thought to stimulate a

> practical wa disablina br linked viciou and anxiety/depression in advanced disease; enhances non-evaluative cost non-dru tauaht, e.a. Some evidence can help anxiety, breathlessness and fatigue in COPD. compassion such as expe explaining breathless b May help breathlessness as a component of an evidence-based complex will actually

> > Priman from healt organisation individual's about dvin manageme

ROLE OF Most people

complex interventions for breathlessness Improves breathlessness in advanced disease and may reduce anxiety Acupuncture/ Conflicting evidence for impact on breathlessness; people need to be

20-minute mindful breathing reduces breathlessness in lung disease,

Guided imagery ('thinking of a nice place'), progressive muscular

Problem-solving approach that challenges unhelpful thoughts/

behaviours; reduces anxiety in COPD in short term; increases

Most studies do not find this intervention improves breathlessness

although some evidence in lung cancer and pursed lip breathing may

help in COPD; however, these are a key component of evidence-based

See our online Supplementary material for a full list of supporting references at

A cool flannel is an alternative

Can improve exercise capacity

pulmonary rehabilitation attendance

attention and may increase self-efficacy

relaxation and counting are most acceptable

awareness of local practice and beliefs which food access, setting goals to increase body may vary from the evidence led by tradition, "specialist practice" or local systems. Awareness of the evidence allows clinicians A useful pathway for guidance on to provide people with COPD and their managing malnutrition in COPD is available carers with more informed choices to support at www.malnutritionpathway.co.uk/copd/. best use of limited resource.

Managing malnutrition

status can all be improved with nutritional People with COPD attend primary care support.8 About 1 in 5 people with COPD throughout their life, and therefore primary are at risk of malnutrition, particularly under nutrition, causing poor outcomes and symptom relief which is independent of increased healthcare costs due to loss of skeletal muscle (sarcopenia) and lean tissue changing needs may include being mindful mass (cachexia). Malnutrition can result from of alternative communication methods AND ENI inadequate local access to food or from including the telephone or tele-video that inability to shop and cook among other enables regular contact with no travel effort.1 reasons. Calculate body mass index (BMI) A model that can work in high and low and track weight loss in the office or by the income settings (See our online person at home. When available, a simple Supplementary material S2) is the allocation measure like handgrip strength can be used of a health care professional or "coach" with and the use as a marker of muscle strength. If specific COPD knowledge to support the wills,21 Those malnutrition is a concern, it is necessary to individual over the course of their life and as since people

habits and identifying food support systems. Quitting smoking may help to improve annetite and taste

Fatigue, muscle weakness and overall health ROLE OF PRIMARY CARE TEAM

explore reasons for the malnutrition and try their needs change and guide them to locally CVD, heart

against a or lying o

care must respond to their changing need for disease severity. Responding to people's ADVANC

People with advance ca care: non-inv of death, Do

organisations and online self-help resources. ools such as questions in Table 1 can quide the discussion. Consider establishing a register of people for whom discussions around advance care planning would be appropriate. Such discussions should then be recorded and dated and revisited at regular intervals. The Breathing Thinking Functioning model¹⁰ has been found by primary care clinicians in the UK to be a very helpful and

lead to imp

year. Therefo carers, famil be essential care can of offer educa third parties Correct Foundat

discussions (See our online Supplementary material S3). COPD can have multiple trajectories (Figure 3) from progressive and often sitting d unrecognized disabling breathlessness, pair

anxiety and depression to sudden events and death during acute exacerbations or cardia events against a background of long-term decline. Even where hospices are available leaflets o they may not meet the needs in all these events. Some events can help highlight the

need to discuss palliative and end of life care. Half of people admitted for COPD and acute respiratory failure will typically die in the next two years. This could be a key indicator for inclusion in the palliative care register and updating or completing a living will, if these are available. The palliative ca approach requires repeated assessments of current status, available resources, involving the person and family desires and available services together to meet the full to predict the trajectory for individual people

Figure 2: The Breathing-Thinking-Functioning (BTF) model10

care may be shared or transferred to other groups of health care professionals. Plans and people with COPD preferences should not be static and must be

ferences Chyr LC, et al. Ann Fam Med 2022;20:77-83. Holland AE, et al. Chron Respir Dis 2016;13:372-82. Barnett K, et al. Lancet 2012;380:37-43. reviewed and undated regularly as their and example, it is important to review using questions such as "Before, you thought you Miller WR, Rollnick S. Motivational Interviewing Helping People Change, 3rd Edition. New York: The Guiford Press, 2013. would like... Is that still what you would like? Asking about death and dying can be intimidating and uncomfortable for many HCPs but people with COPD and their

IPCRG, Desktop Helper No. 4 - Helping patients quit tobacco - 3rd edition. Available at: https://www.ipcrg.org/desktophelpers/desktop no-4-helping-patients-quit-tobacco-3rd-edition NCSCT, Very Brief Advice training module, Available Lives without exacerbation for long time,

at: https://www.ncsct.co.uk/publication_very-brief-advice.php. Accessed March 2022.

during an event is important. Be clear that

predicting trajectories and 'time left' is

difficult and often uncertain but reassure the

person that support is available and their

wishes will be respected. Include family and

carers to ensure that the person's wishes are

The aim is for people with COPD to die in

their preferred place. This may be at home

However, this preference may change over

time as a person experiences changes in their

condition and realises what supports are not

able to be provided at home. For example

their preference may change to a hospice. For

viewed as a dynamic process involving

their families that should be revisited over time

and records updated accordingly. See our

online Supplementary material S5 for examples of formularies for end-of-life

zen PNR, et al. J Chron Obstruc Pulm Dis 2020;

known and feasible to accomplish.

https://goldcopd.org/2022-gold-reports-2/. Accesses

pruit MA, et al. Am J Respir Crit Care Med 2013:188 e 13-44. Spothis A, et al. npj Prim Care Respir Med 2017;27:27.

onnell DE, et al. Adv Ther 2020;37:41-60.

rz. Barnes H. et al. Cochrane Database Syst Rev 2016:3

CD011008. Currow DC, et al. ERJ Open Res 2020;6:00299-2019. Simon ST, et al. Cochrane Database Syst Rev 2016;

10:CD07354.

O. Luckett T, et al. Eur Respir J 2017;50:1700262.

1. Patel K, et al. Respiralogy 2012;17:72-8.

2. Lynn J, Adamson DM. Living well at the end of life.

Adopting health care to serious chronic illness in oli age. Washington, Rond Health, 2003. Available at https://opsc.ich.mil/si/cfottors/ADA41621.

Additional resources and full references can be accessed via the online version of the Desktop Helper www.ipcrg.org/dth3

IPCRG

uthors: Barbara Yawn, Matteo Mannucci, Seneth Samaranayake and Siân Williams; Contributor: Anna Spathis exievens: Nicholas Glasgow, Steve Holmes, Katherina Irene Pettus; Edtor: Tracey Lonorgan

Full slideset available

discussions earlier to supplement discussion

- Time

Long-term limitations with intermittent exacerbations/serious episodes

Prolonged dwindling, frailty, multiple mental and physical morbidity

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COPD RIGHT CARE

Personalised and safe care, delivering a better experience for people living with COPD

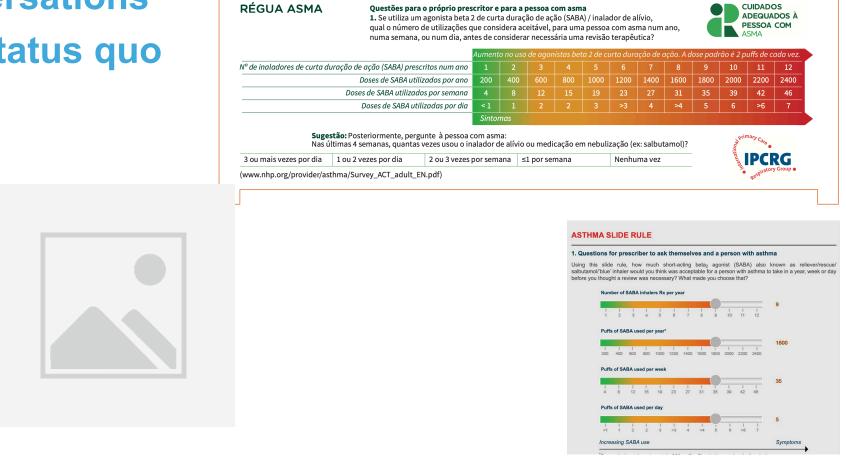
Launched May 2022

Two tools project

Two tools project: purpose and inspiration

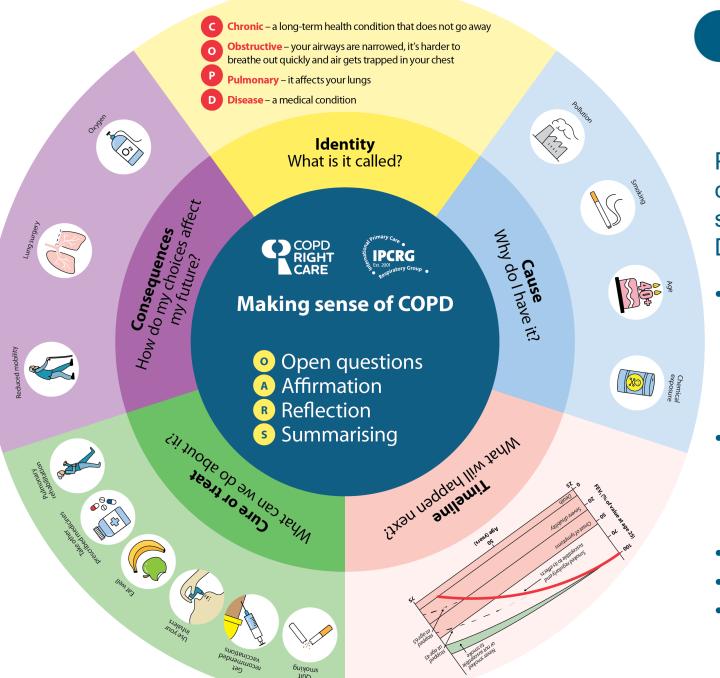


- Start new conversations
- Challenge the status quo



FRENTE

Created by IPCRG Steering Group, supported by educational grant from Boehringer Ingelheim

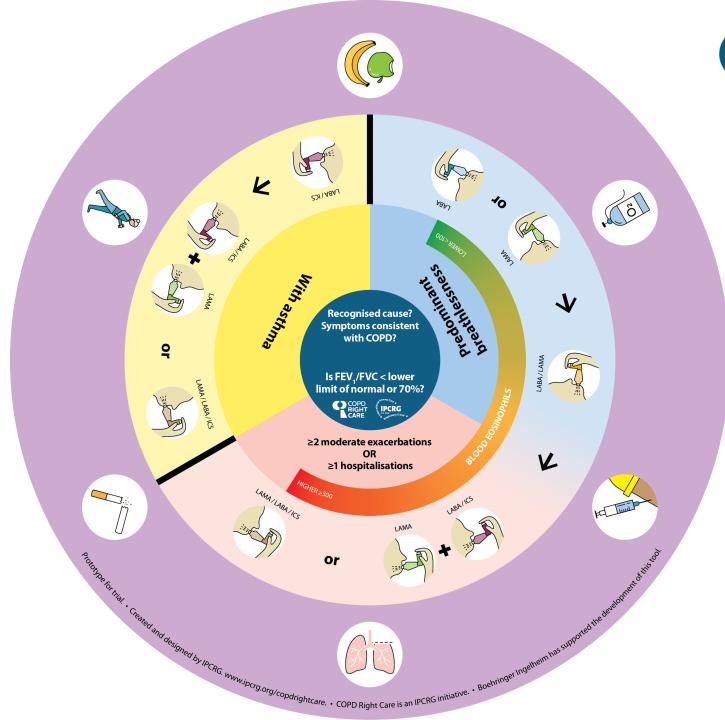




Patient communication side Draws on:

- WHOrecommended OARS model for motivational interviewing
- Leventhal's common sense model 5 questions
- Fletcher & Peto
- GOLD 2022
- Co-design with primary care and patients

Draft
released for
clinical and
patient
engagement
May 2022





Clinical decisionmaking side

Draws on:

- GOLD 2022
- Primary care and patient codesign





COPD Right Care Wheel guidance notes

The Chronic Obstructive Pulmonary Disease (COPD)
Right Care Wheel has been developed by the clinicallyled charity, International Primary Care Respiratory
Group (IPCRG) as a quick helper for prescribing choices.

The tool is intended to support health care prescribers who know people with COPD need inhaled medicine(s) but are unsure which option to choose; and to help clinicians develop their COPD consultation skills by working with people with COPD to understand what the condition is, what might happen to them and to improve their adherence to therapies.

As part of a growing social movement approach we are having these conversations between prescribers, COPD educators, pharmacists and people with COPD in five countries. Try and see how you can use it to get a conversation going.

The guidance provides potential steps and questions to ask when using the tool. Tailor it to the person you are speaking to.

More information can be found at www.ipcrg.org/COPDRightCare where there is a short video showing the use of the Wheel.

Good luck with your conversations and thank you for participating.

The COPD Right Care Team April 2022

Further Reading

Please refer to your national guideline on COPD if you require further information. If you do not have one, please refer to the GOLD Report and Pocket Guide from the Global Initiative for Chronic Obstructive Lung Disease which is updated annually.¹

To find out more about COPD Right Care go to https://www.ipcrg.org/copdrightcare

The wheel is currently a prototype and will be trialled in a number of settings with feedback gathered to improve on the tool. Details as to how this will be done are in development.

Created and designed by IPCRG www.ipcrg.org.
COPD Right Care is an IPCRG initiative. Boehringer Ingelheim
has supported the development of this tool.

Guidance Steps

The wheel has two sides:

- Side A to assist with prescribing, with a rotating inner wheel
- Side B to assist with patient conversations and motivational interviewing

Side /

To assist with prescribing, with a rotating inner wheel



Side A Rotating Inner Circle

Depicts the 3 types of COPD people tend to have (phenotypes) matching 3 inhaler pathways.

Step 1

Look at the words in the core of the inner circle in terms of cause, symptoms and spirometry and check that the patient meets the three criteria for a diagnosis of COPD.

Cause – is there a recognised cause, such as tobacco smoking?

Symptoms - are they consistent with COPD?

Spirometry – Is the FEV_1 < the lower limit of normal or <70%?

Step 2

Choose one of the 3 phenotypes on the outer ring of the inner wheel and then move it to match with the correct prescribing pathway (align using the colour coding: with asthma, yellow; predominant breathlessness, blue; ≥2 moderate exacerbations or ≥1 hospitalisation, pink)

Also consider blood eosinophil levels: ≥300 or <100 and adjust the ring.

Parameters are based on the GOLD 2022 guidance below and when taken account of will make treatment more personalized and reduce over prescribing of ICS.

Factors to consider when initiating ICS treatment in combination with one or two long-acting bronchodilators (note the secnario is different when considering ICS withdrawal

Strong support	Consider use	Against use
History of hospitalisation(s) for exacerbations of COPD# ≥ 2 moderate exacerbations of COPD per year# Blood eosinophils ≥ 300 cells/µl History of, or concomitant, asthma	1 moderate exacerbation of COPD per year# Blood eosinophils ≥ 100 to <300 cells/µl	Repeated pneumonia events Blood eosinophil <100 cells/µl History of mycobacterial infection

#despite appropriate long-lasting bronchodilator maintenance therapy
*note that blood eosinophils should be seen as a continuum; quoted values
represent approximate cut-points; eosinophil counts are likely to fluctuate

Reproduced with permission of the © ERS 2022: European Respiratory Journal 52 (6) 1801219; DOI: 10.1183/13993003.01219-2018 Published 13 December 2018

Step

Check and assure yourself you are choosing the right and safest pathway.

Side A Fixed Outer Circle

Step

Whilst you are looking at inhaler choices, use the prompt of the COPD Right Care therapies depicted round the outer circle to consider which may also be appropriate e.g., vaccination (influenza and pneumococcal); help to quit tobacco; physical activity, nutritional advice, and for some people with advanced COPD, oxygen therapy or lung volume reduction surgery.

References

- GOLD. Global strategy for prevention, diagnosis and management of COPD: 2022 Report. Available at: https://goldcopd.org/. Accessed April 2022.
- 2 Leventhal H, et al. J Behav Med 2016;39:935-46.
- 3 Source:

https://www.euro.who.int/__data/assets/pdf_file/0008/ 394208/Session-5.pdf. Accessed April 2022.

Side B

To assist with patient consultation and motivational interviewing

The graph on the wheel is reproduced from The natural history of chronic airflow obstruction. Fletcher C, Peto R. BMJ 1977;1:16458 with permission from BMJ Publishing Group Ltd



It will support clinicians with a role in helping people with COPD to:

- · understand what their condition is
- · know what will happen to them; and
- · improve adherence to therapies

Step 1

There are 5 key areas to be explored, for people to understand their condition and be able to take part in shared decisions about treatment goals. They are based on the Leventhal Model:

Leventhal Model2

- · Identity: what's my diagnosis called?
- Timeline: disease path
- · Cause: how did it happen?
- Cure/Treat: what can | do about it?
 Consequences: how does my choice affect my future? [shared decision-making]

Step 2

There are 4 consultation styles (OARS = a WHOrecommended motivational interviewing approach) that you can use to help people choose and that may help people be adherent to their therapies.³

- · Open questions
- · Affirmation of effort, strength, volition
- · Reflecting to check meaning
- Summary

Step 3

Practise your consultation skills by choosing one of 5 key conversation topics and match with one of 4 motivational interviewing techniques.



Available at
https://www.ipcrg.org/resources/search-resources/copd-right-care-wheel-guidance-notes

COPD RIGHT CARE

Personalised and safe care, delivering a better experience for people living with COPD

Steroid alert card

History

Original blue small steroid card already existed in UK

COPD RIGHT CARE

Discharge planning / Community use

Patient and carer advice points

- Patients expected to be taking corticosteroids for more than 3 weeks should be given a Steroid Treatment Card and the leaflet contained in the manufacturer's packaging.
 - Always carry this card with you and show it to anyone who treats you (for example a doctor, nurse, pharmacist or dentist). For one year after you stop the treatment, you must mention that you have taken steroids.
 - If you become ill, or if you come into contact with anyone who has an infectious disease consult your doctor promptly. If you have never had chickenpox, you should avoid close contact with people who have chickenpox or shingles. If you do come into contact with chickenpox, see your doctor urgently.
 - Make sure that the information on the card is kept up to date.

STEROID TREATMENT CARD

I am a patient on STEROID treatment which must not be stopped suddenly

- If you have been taking this medicine for more than three weeks, the dose should be reduced gradually when you stop taking steroids unless your doctor says otherwise.
- Read the patient information leaflet given with the medicine.

https://www.palliativecar eguidelines.scot.nhs.uk/ guidelines/medicineinformationsheets/dexamethasone. aspx

APS Group Scotland DPPAS11642 (06/11)

The respiratory network in London, the London Respiratory Team (LRT), identified that the original blue steroid treatment card was inappropriate for use in patients with COPD on high dose ICS. A patient safety card was drafted along with prescribing guidance including all the factors for safe and effective ICS use. This was piloted in both hospital and primary care settings and then redrafted.

To be completed by me	edical practitioner				
High Dose Inh	High Dose Inhaled Corticosteroid Safety Card				
Name:		DOB:			
I am currently taking:	1	Since:			
My normal dose is:	1 puffs 2 puffs				
If MDI – using Space	If MDI – using Spacer? Yes No				
I may be at risk of corticosteroid insufficiency when I am ill and supplementation should be considered.					
Consultant/GP:	Cont	act No:			
		Please peel off card			

Aim of the ICS patient safety card

The card is written for patients, so that they understand the benefit of, and how to minimise, the potential harms of treatment, particularly adrenal suppression. At the same time there is an underlying objective that the process of attempting to issue the card would prompt a prescriber to consider whether the high dose of ICS is actually required, or whether a lower dose used appropriately would provide similar efficacy, with fewer side effects. Ideally this would result in avoiding the need to issue the steroid card in all but a few patients.

https://www.networks.nhs.uk/nhs-networks/south-east-coast-respiratory-programme/documents/breathing-matters-edition-24

Inhaled Corticosteroid Safety Information for Adults

Inhaled corticosteroid agents are very important in the treatment of respiratory conditions such as asthma and sometimes, chronic obstructive pulmonary disease (COPD). They act by reducing inflammation and preventing symptoms from developing. Corticosteroid sprays are also used for nasal conditions such as sinusitis and hayfever. Generally, they are very safe and free from serious side effects when used in standard doses.

Inhaled corticosteroids can cause local side effects such as sore throat, hoarse voice or oral thrush (sore white patches in the mouth). The risk of these side effects may be reduced by using a spacer device with aerosol inhalers (MDI's) that contain corticosteroids, and rinsing your mouth out with water (and spitting out) after using any corticosteroid inhaler. Prolonged use of inhaled corticosteroids may lead to easy bruising or thinning of the skin, especially in older people. Very rarely, higher doses of inhaled corticosteroids may temporarily reduce your body's ability to produce its own corticosteroids when under stress, such as in severe illness or undergoing surgery, or to fight off some infections (e.g. chickenpox).

If you become ill for any reason, be sure to alert the medical staff looking after you that you are using higher doses of inhaled corticosteroid as you may need additional corticosteroids. Ideally, carry the safety card attached to this information sheet with you at all times and show this to your medical team. Recorded on the safety card below are any inhaled corticosteroids that you should be currently taking.

If you start to experience any of these symptoms: worsening fatigue, muscle weakness, loss of appetite, unintentional weight loss, dizziness, unexplained nausea, vomiting and diarrhoea, go and see your general practitioner (GP), because they might be related to the inhaled corticosteroid you are taking. Do not stop taking your inhaled corticosteroid suddenly. If you have never had chickenpox, you should avoid close contact with people who have chickenpox or shingles. If you do come into contact with someone with these conditions, see your doctor urgently.



Developed by London Respiratory Network





You have been given this safety card because you are taking a high dose of inhaled corticosteroid.

It is important that you do NOT stop using your inhaled corticosteroid suddenly, particularly if you have been taking this medication for more than 3 weeks.

Be sure to get your repeat prescription of your inhaler before it runs out.

Always carry this card with you and show it to your medical team if you become ill.

NHS England

https://www.ashleyforms.co.uk/products-and-services/high-dose-ics-safety-card



Guidance for Healthcare Professionals on Inhaled Corticosteroids in Adults

The side effect profile of an ICS

- Inhaled corticosteroids (ICS) are prescribed in asthma to improve control, reduce exacerbations
 and risk of death, and in those with severe to very severe COPD, to reduce the frequency of
 exacerbations. The benefits of an ICS outweigh the risks when used in clinically effective doses,
 however, long-term high doses (≥1000 micrograms beclometasone dipropionate (BDP)
 equivalent/day) may cause systemic side effects.
- The systemic side effects of corticosteroids are well known. High doses of ICS are associated with clinically detectable adrenal suppression (Arch Intern Med 1999;159:941-55), increased risk of non-fatal pneumonia in patients with COPD (Arch Intern Med 2009;169:219-29), increased risk of type II diabetes (Am J Med 2010;123:10016), and may increase the risk of fractures (Thorax 2011;66:699-708) and tuberculosis (Chest 2014;145(6):1286-1297). It is recommended that all patients on high doses of ICS are made aware of the risks and given an ICS safety warning card.
- At equipotent doses, the safety profiles of all ICS are similar. Budesonide and ciclesonide are
 approximately equipotent with BDP, while fluticasone propionate (FP), mometasone and ultrafine
 particle BDP-HFA inhalers (Qvar® and Fostair®) are twice as potent as standard BDP inhalers.
 Equivalence data for fluticasone furoate is not currently available.

In patients with Asthma:

- Once a patient has persistently good control (e.g. for 3 months), consider stepping down to the lowest dose of ICS that maintains symptom control.
- There is limited evidence that increasing an ICS dose above 800 micrograms BDP equivalent/day improves asthma control, even in acute exacerbations (Cochrane Review CD007524). MHRA guidance suggests that a total daily dose of 500-1000 micrograms of fluticasone propionate should only be prescribed for moderate to severe asthma, with doses above this, only prescribed by an asthma specialist, when additional benefit is expected or demonstrated, or by the ability to reduce oral corticosteroid use
- (http://www.mhra.gov.uk/home/groups/pl-p/documents/websiteresources/con007456.pdf).

In patients with COPD:

In severe COPD (FEV,<50%), an ICS+LABA may reduce the frequency of exacerbations. Clinical trials in severe COPD and ≥2 exacerbations/year, suggest that twice daily inhalation of Symbicort (budesonide/formoterol) 400/12 (ERJ 2003;22:912-19, ERJ 2003;21-48-1), Fostair (beclometasone HFA/formoterol) 200 micrograms (Respir Med 2010;104:1858-68) and Seretide (FP/salmeterol) 500 Accuhaler (NEJM 2007;356:775-89) are equally effective in reducing the frequency of exacerbations. Patients taking Seretide will need an ICS card whereas those prescribed Symbicort and Fostair may not.

Before increasing an ICS (or any therapy) the following are recommended:

- Check adherence to therapy. Very few patients take their medicines as directed all the time. Sub-optimal inhaler technique or not taking the medicines regularly as directed are common, but often fixable causes of treatment failure. Always ask the patient to describe how they take their medicines in a non-judgmental way – the purpose is to discover if you should change therapy or discuss how to take current therapy more effectively.
- Improve ICS delivery to the lungs. This may be more effective than increasing the dose, so
 inhaler technique must be checked and optimized regularly. Using a metered dose inhaler (MDI)
 with a spacer device improves lung deposition (Br J Clin Pharmacol 1998;46:45-8, Clin
 Pharmacokinet 2004;43:349-60) and in aiding co-ordination, reduces oropharyngeal deposition
 and local side effects (eq hoarseness or sore throat).
- 3. Encourage people to stop smoking. Provide stop smoking therapy for people with COPD and asthma who smoke. In COPD, intervening early reduces mortality (*Ann Intern Med*.2005;142:233–239) and improves health status (*Thorax*. 2010;65:711-8). In asthma, stopping smoking may avoid the need for stepping up ICS dose when poorly controlled (*Thorax* 2005;60:282–287).

Developed by London Respiratory Network



Doses of inhaled corticosteroids in adults that require an inhaled corticosteroid card

	Total Daily Dose of Inhaled Corticosteroid				
	Low dose No ICS card required	Intermediate dose Consider an ICS card	High dose ICS card is required		
Beclometasone dipropionate					
Aerosol Inhaler (prescribe by brand name)					
Non-proprietary	<800 micrograms	800-1000 micrograms	≥1000 micrograms		
Clenil modulite	<800 micrograms	800-1000 micrograms	≥1000 micrograms		
Qvar (BDP HFA)	<400 micrograms	400-500 micrograms	≥500 micrograms		
Fostair (BDP HFA)	<400 micrograms	400-500 micrograms	≥500 micrograms		
Dry Powder Inhaler					
Asmabec Clickhaler	<800 micrograms	800-1000 micrograms	≥1000 micrograms		
Budesonide					
Dry Powder Inhaler					
Easyhaler, Novolizer	<800 micrograms	800-1000 micrograms	≥1000 micrograms		
Turbohaler (Pulmicort, Symbicort)	<800 micrograms	800-1000 micrograms	≥1000 micrograms		
Ciclesonide					
Aerosol Inhaler Alvesco	≤240 micrograms	320 micrograms	≥480 micrograms		
Fluticasone propionate (FP)					
Aerosol Inhaler					
Flixotide, Flutiform [▼] , Seretide	<400 micrograms	400-500 micrograms	≥500 micrograms		
Dry Powder Inhaler					
Flixotide and Seretide	<400 micrograms	400-500 micrograms	≥500 micrograms		
Fluticasone furoate (FF)*					
Dry Powder Inhaler Relvar [▼]		Literature not available*			
Mometasone furoate					
Dry Powder Inhaler Asmanex	220 micrograms	440 micrograms	≥880 micrograms		

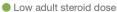
*Fluticasone furoate 92 micrograms once daily is approximately equivalent to fluticasone propionate 250 micrograms twice daily (https://www.medicines.org.uk/emc/medicine/28496). This could be interpreted as being equivalent to 1000 micrograms of beclomethasone dipropionate, but caution is advised as direct comparator studies have not been published.

- Dosage equivalents are approximate and dose delivered will depend on other factors such as inhaler technique
- Encourage patients to use appropriate breathing techniques according to inhaler device e.g.: "Slow and Steady" for an aerosol inhaler, "Quick and Deep" for a dry powder inhaler
- If a patient is using nasal corticosteroids and an ICS, they should be assessed individually. For example, for a patient taking nasal corticosteroids and 800-1000 micrograms of BDP equivalent/day, a corticosteroid safety card is recommended.
- Before prescribing, patients should always have their therapy reviewed for continued appropriateness and if necessary, issued an ICS card: www.ashleyforms.co.uk/products-and-services/high-dose-ics-safety-card



Fostair NEXThaler 100micrograms / dose / 6micrograms / dose dry powder inhaler (Chiesi Ltd) 120 dose

Beclometasone 100micrograms / dose + Formoterol 6micrograms / dose



Medium adult steroid dose

ICS + LABA

Dry powder inhaler (DPI)

£29.32 / 30 days (based on 4 puffs / day)

Steroid safety card not always required, but recommended for medium doses



Luforbec 100micrograms / dose / 6micrograms / dose inhaler (Lupin Healthcare (UK) Ltd) 120 dose

Beclometasone 100micrograms / dose + Formoterol 6micrograms / dose

Low adult steroid dose

Medium adult steroid dose

ICS + LABA

Pressurised aerosol inhaler (MDI)

£23.45 / 30 days (based on 4 puffs / day)

Steroid safety card not always required, but recommended for medium doses



Fostair 100micrograms / dose / 6micrograms / dose inhaler (Chiesi Ltd) 120 dose

Beclometasone 100micrograms / dose + Formoterol 6micrograms / dose

Low adult steroid dose

Medium adult steroid dose

ICS + LABA

Pressurised aerosol inhaler (MDI)

£29.32 / 30 days (based on 4 puffs / day)

Steroid safety card not always required, but recommended for medium doses



Qvar 100 Autohaler (Teva UK Ltd) 200 dose

Beclometasone 100micrograms / dose

Medium adult steroid dose

High adult steroid dose

ICS

Pressurised aerosol inhaler (MDI)

£10.33 / 30 days (based on 4 puffs / day)

Steroid safety card recommended for medium doses; required for higher doses



Qvar 100 Easi-Breathe inhaler (Teva UK Ltd) 200 dose

Beclometasone 100micrograms / dose

Medium adult steroid dose

High adult steroid dose

ICS

Pressurised aerosol inhaler (MDI)

£10.17 / 30 days (based on 4 puffs / day)

Steroid safety card recommended for medium doses; required for higher doses



Clenil Modulite 100 inhaler (Chiesi Ltd) 200 dose

Beclometasone 100micrograms / dose

Low adult steroid dose

ICS

Pressurised aerosol inhaler (MDI)

£4.45 / 30 days (based on 4 puffs / day)

Steroid safety card not normally required



Kelhale 100 inhaler (Cipla EU Ltd) 200 dose

Beclometasone 100micrograms / dose

Medium adult steroid dose

High adult steroid dose

ICS

Pressurised aerosol inhaler (MDI)

£3.12 / 30 days (based on 4 puffs / day)

Steroid safety card recommended for medium doses; required for higher doses



#asthmarightimage

https://www.rightbreathe.com/?s=



Since then, this has continued to be used by respiratory teams across the UK to prompt prescriber reflection about prescribing high dose inhaled steroids for COPD.

Meanwhile, the UK NHS has now updated the NHS steroid card – for non-respiratory conditions – this doesn't have same aim of prompting reconsideration of whether high dose is actually needed

Brief rationale:

https://www.england.nhs.uk/wp-content/uploads/2020/08/NPSA-Emergency-Steroid-Card-FINAL-2.3.pdf

https://www.endocrinology.org/media/4091/spssfe_supporting_sec_-final_10032021-1.pdf



Some patients who take oral, inhaled or topical steroids for other medical conditions may develop secondary adrenal insufficiency and be steroid dependent; new guidance, clarifies which patients may become steroid dependent. Omission of steroids for patients with adrenal insufficiency can lead to adrenal crisis; a medical emergency which if left untreated can be fatal. Patients with adrenal insufficiency require higher doses of steroids if they become acutely ill or are subject to major body stressors, such as from trauma or surgery, to prevent an adrenal crisis.

Recently published national guidance promotes a new patient-held Steroid Emergency Card to be issued by prescribers. This helps healthcare staff to identify appropriate patients and gives information on the emergency treatment to start if they are acutely ill, or experience trauma, surgery or other major stressors.

Useful resources:

Ordering Steroid cards:

https://www.england.nhs.uk/wp-content/uploads/2020/08/NPSA-Emergency-Steroid-Card-FINAL-2.3.pdf

Process map: Implementing the steroid card NPSA Alert:

https://www.prescqipp.info/umbraco/surface/authorisedmediasurface/index?url=%2fmedia%2f5486%2fimplementing-the-steroid-card-safety-advice-v22-hot-topic-april-2021.pdf

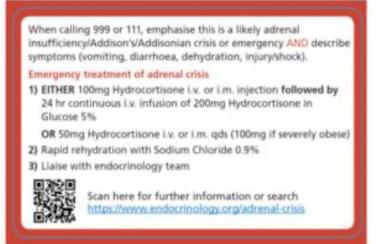


Blue Steroid treatment cards and the London respiratory network card.

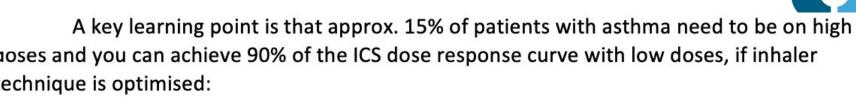
The blue Steroid Treatment Card (figure 2) and the London Respiratory Network Card (https://www.networks.nhs.uk/nhs-networks/london-lungs/documents/high-dose-inhaled-corticosteroid-alert-card-order-form) are unaffected by the introduction of the NHS Steroid Emergency Card (figure 1). Patients should keep these, if advised by their healthcare team whilst implementation of the new Steroid Emergency Card takes place. Patients being prescribed steroids outside the scope of this alert, would still be eligible for the blue standard Steroid Treatment Card. The blue Steroid Treatment Card gives patients guidance on minimising the risks when taking steroids and also provides details of the prescriber, drug, dosage and duration of treatment.

Figure 1: Steroid Emergency Card





goses and you can achieve 90% of the ICS dose response curve with low doses, if inhaler technique is optimised:



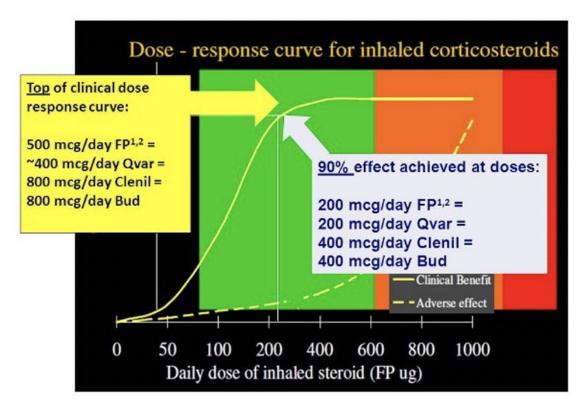


1. Masoli M et al. Thorax 2004; 59:16-20

RIGHT

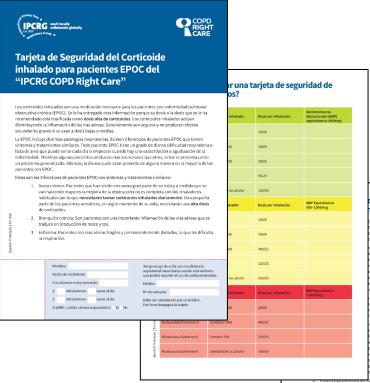
CARE

2. Holt S et al. BMJ 2001: 323:253-256



Steroid card – Spanish and Portuguese





os en pacientes EPOC: n de corticoides para sanitarios

I) se consideran generalmente seguros cuando se usan en dosis dosis altas durante largos períodos de tiempo existe un riesgo de icos. Todas las guías clínicas insisten en la importancia de ectiva en nuestros pacientes.

micos de los corticoides son bien conocidos. Altas dosis de ian con la clínica de supresión adrenal (Arch Intern Med. 1999; eumonía grave en pacientes con EPOC (Arch Intern Med. riesgo de diabetes mellitus tipo 2 (Am J Med. 2010:123:1001-6) de fracturas (Thorax 2011:66:699-708). Se recomienda os pacientes con dosis altas de CI > 1000 microgramos de conocer los potenciales riesgos de una supresión adrenal y se

arta parte de los pacier

nhalados diariamente

os rieseos asociados al tomarlos

enfermedad grave, infección o cirugía.

nfisema, la mayoría de pacientes no se benefician de los corticoides

as blancas en la boca y la lengua). El riesgo de estos efectos secundario

cada uso del inhalador. El uso prolongado de corticoides inhalados

o puede reducir temporalmente la producción de corticoides cuando

asegúrese de comunicar al personal médico que le atiende que está inhalados, ya que es posible que necesite corticoides adicionales. Lo

lizar sus medicamentos con corticoides inhalados de forma repentina

a tarieta de seguridad adjunta a esta hoja informativa y enseñarsela a su

síntomas: fatiga, debilidad muscular, pérdida de apetito, pérdida de

alado que está tomando. No deje de tomarlo de forma brusca. Si nunci

ntacto directo con personas que tengan varicela o herpes zoster. S

parente, vómitos y diarrea, acuda a su médico ya que pueden esta

as condiciones consulte a su médico urgentemente.

eta de seguridad se registran los corticoides inhalados y nasales que

de CI usen corticoides nasales deben ser instruidos del potencial uellos pacientes con dosis inhaladas entre 800-1000 cia BDP al día deben tener la tarjeta de seguridad, especialmente

nbinada en EPOC demuestran que tanto la budesonida 400 es al día (Eur Respir J 2003; 22:912-919, Eur Respir J 2003; 21: 74-OP de 800 microgramos diarios y fluticasona propionate 500 es al dia (N Engl | Med 2007: 356:775,789 Am | Respir Crit Core Med ivalencia BDP de 2000 microgramos diarios, son igualmente iencia de las exacerbaciones y mejorando la calidad de vida en an 2 o más exacerbaciones al año. La dosis y el tipo de CI podría fectos secundarios a largo plazo. La elección del mismo debe se

diferencia en la seguridad de diferentes corticoides. Por ejemplo, la budesonida es casi equipotente a la BDP. En cambio la fluticasona, mometasona e inhaladores de partículas ultrafinas BDP HFA son casi el doble de potentes que los inhaladores BDP estándar.

6. Antes de aumentar la dosis del corticoide inhalado

- 1. Comprobar la técnica inhalatoria. Una técnica inhalatoria pobre, especialmente co inhaladores pMDI es muy común y suele inducir a error. Mejorar el transporte de los CI a los pulmones puede ser más efectivo que aumentar la dosis. Por lo tanto es obligatorio comprobar la técnica inhalatoria y corregir los posibles errores. Se debe utilizar pMDI con cámara espaciadora, el uso de las mismas puede doblar la cantidad de medicamento que llega al pulmón (Br. J Clin Pharmacol, 1998:46:45-8. Clin Pharmacokinet. 2004;43:349-60). Es importante recetar la cámara que sea compatible con el inhalado
- 2. Cuando manejemos pacientes con patrón mixto EPOC-asma, debemos tener en cuent que para la mayoría de los pacientes, un aumento de la dosis de corticoides por encima de 800 microgramos al día, no mejorará el control del asma

verá entregar um Cartão de segurança

V1 2022-02-13 (Adaptado do cartão de segurança do UK/LRT)

lados em pessoas com DPOC: ção para profissionais de saúde

idos (ICS) são geralmente considerados seguros quando utilizados em dose quando se utilizam doses elevadas durante longos períodos, existe o risco ios sistémicos. Todas as orientações clínicas salientam a importância de se da dose eficaz mais baixa de ICS, nas pessoas que realmente podem

ios sistémicos dos corticóides são bem conhecidos. Doses elevadas de ICS pressão adrenal clinicamente significativa (Arch Intern Med. 1999; 159:941 do de pneumonia não fatal em pessoas com DPOC (Archintern Med. co au mentado de Diabetes tipo II (Am.) Med. 2010:123:1001-6), e pode fraturas (Thorax 2011;66:699-708). Recomenda-se fortemente que as s de ICS superiores a 1000 microgramas de Dipropionato de), ou equivalente, por dia, devem ser sensibilizadas para os riscos eber um cartão de alerta para o risco de supressão adrenal causad

n corticóides nasais, para além dos ICS, devem ser avaliados quanto à sua encial de corticóide. Para as pessoas que fazem doses de ICS entre 800de BDP ou equivalente por día, recomenda-se um cartão de segurança do

e terapia combinada na DPOC mostram que tanto a Budesonida 400 mcg, eco Turbobaler, 1 inalação duas vezes por dia (Fur Respir J 2003: 22:912 3; 21: 74-81), o que corresponde a uma dose equivalente de BDP 800mcg Propionato de Fluticasona 500mcg, em inalador de pó seco Diskus, 1 se corresponde a uma dose equivalente de BDP 2000mcg diariamente, são a redução da frequência de agudizações e na melhoria da qualidade de êm 2 ou mais agudizações por ano. A dose e o tipo de ICS podem influencia de efeitos secundários dos corticóides. A escolha de quais usar deve ser

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- ntes, não há diferenca no perfil de segurança dos diferentes ICS. Por exemplo, a Budesonida é aproximadamente equipotente ao BDP. No entanto, os inaladores de partículas ultrafinas HFA com Fluticasona ou Mometasona são aproximadamente duas vezes. mais potentes que os inaladores padrão de BDP.
- incorreta, especialmente com inaladores de aerossóis, é muito comum e contribui para a falência terapêutica. Melhorar a deposição de ICS nos pulmões pode ser mais eficaz do que aumentar a dose. Assim, é necessário que a técnica inalatória seja sempre verificada e que sejam feitas as alterações necessárias. Utilize inaladores pressurizados com uma câmara expansora. A utilização de uma versão de grande volume pode duplicar a deposição pulmonar dos fármacos (BrJ Clin Pharmacol. 1998;46:45-8, Clin Pharmacokinet. 2004;43:349-60). É importante prescrever uma câmara expansora que seja compatível com o dispositivo
- essoas, o aumento da dose de ICS para mais do que 800 microgramas de BDP ou equivalente

izações dos seus sintomas. Cerca de um quarto nais por ano) ou ficam tão mal que precisam de ser rio de corticóides inalados. Pelo contrário, a a não beneficiam em usar corticóides inalados

entos de efeitos secundários graves quando idos todos os passos de uma técnica inalatória zura. Contudo, se não se utilizar uma câmara res pressurizados e se não se lavar a boca com s secundários locais, tais como dor de garganta O uso prolongado de corticóides inalados pode nto da fragilidade da pele, especialmente na adas de corticóides inalados podem reduzir zir os seus próprios corticóides quando em graves, cirurgias ou no combate a algumas

des inalados, pois poderá precisar de corticóides segurança anexado a este documento lo de segurança que se apresenta acima, estão ve estar a usar atualmente

nto do cansaco, fraqueza muscular, perda de as inexplicáveis, vómitos e diarreia - procure a ados com os corticóides inalados que está a nte. Se nunca teve varicela, deve evitar contactos

Portuguese version available at

https://www.ipcrg.org/resources card-portuguese

Tarieta de seguridad de corticoides inhalados en dosis

O cartão de segurança dos Corticóides Inalados do COPD Right

Os corticóides inalados são importantes para algumas pessoas com Doenca Pulmonar Obstrutiva Crónica

DPOC. Algumas pessoas são mais propensas a apresentar episódios de intensificação da sua falta de ar

O termo DPOC engloba vários problemas pulmonares. Existem três tipos principais de situações clínicas

1. Asma com DPOC – esta condição está presente em pessoas que viveram com asma durante

conseguem resolver completamente os seus sintomas com medicamentos. Estas nessoas

beneficiam em fazer corticóides inalados diariamente. Apenas uma pequena proporção de pessoas com asma em qualquer fase da vida precisa de corticóides inalados em alta dose.

aéreas, que são frágeis, ficaram permanentemente danificados, o que dificulta o trabalho da

grande parte da sua vida e, à medida que envelhecem, a capacidade para reverter completamente os seus sintomas, pelo uso de inaladores, é diminuída, e assim não

2. Bronquite crónica - esta expressão descreve as pessoas em que o muco e a tosse são as

3. Enfisema – nesta situação, incluem-se as pessoas em que os sacos de ar no final das vias

características mais predominantes devido à inflamação das vias aéreas

ros sintomas, a que chamamos de agudização, inflamação e até mesmo "ataques" ou "crises".

uma dose alta. Os corticóides inalados atuam ao reduzir a inflamação das vias aéreas. A maioria das pessoas com DPOC tem algum grau de falta de ar, que pode variar muito de dia para dia. Outras pessoas produzem mais expetoração ou muco e a tosse é um problema importante, mais para uns ntes do que para outros. Algum grau de cansaço está também presente na maioria das pessoas con

sob esta nomenclatura, as quais têm sintomas e tratamentos semelhantes

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Cartão de segurança de corticóides inalados em alta

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