

COPD RIGHT CARE AN IPCRG INITIATIVE

What does good quality COPD care look like

Siân Williams CEO, IPCRG

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



Pulmonary Rehabilitation group in Crete during FRESH AIR study



Pulse oximetry, Portugal



WHO's Florence, a 24/7 virtual health worker, provides digital counselling services to those trying to quit tobacco. https://www.who.int/campaigns/Florence

Why do we need it?



- Persistent unwarranted variation (not due to patient difference)
- Need to offer practical tools that
 - Raise awareness
 - Build confidence
 - Build competence
- So it becomes easy to do the right thing

Approach



- 1. Driven by primary care
- 2. Social movement for health that mobilises stakeholders
- 3. Followers and first followers
- 4. Bring joy to work
- 5. Operates at scale
- 6. Teach teachers
- 7. Value

1. Primary care is the right place for most people with COPD and asthma

- First point of contact
- Community-based
- Throughout life course
- Primary to quaternary prevention
- Can deal with 80–90% of an individual's needs over their lifetime and no more than required

PRIMARY HEALTH CARE

Primary health care is essential health care with its heart in the community. It is the foundation of an effective health system and the key to achieving Universal Health Coverage. Primary health care provides comprehensive and continuous care to individuals throughout their lives.

Primary health care is uniquely placed to provide the spectrum of care required to meet most of the health needs of a population - from prevention and treatment to rehabilitation and palliative care.



COPD, chronic obstructive pulmonary disease World Health Organization. Primary Health Care; 1 April 2021. Ava www.who.int/news-room/fact-sheets/detail/primary-health-care (Accessed July 2023)

Primary health care is high-quality, people-centred, affordable care at every stage of your life.

2. Social movements for health: Raise awareness of the problem and gain commitment to solving it





"Pursuing social change is more of an art than a science. There is no fixed model. No curricula. No rules. No guarantee. It's about reading power. Building relationships. Framing issues. Honing messages. Mobilising supporters. Bringing pressure to bear. All of this in an increasingly complex, networked society in which assumptions that held even a year ago no longer hold."1

(Sue Tibballs – Chief Executive, Sheila McKechnie Foundation)



1. Nesta. We change the world report. Available at: <u>https://media.nesta.org.uk/documents/</u> we_change_the_world_report.pdf (Accessed August 2023)

3. First followers matter: the Dancing Guy







Photos from https://www.youtube.com/watch?v=fW8amMCVAJQ



4. Bring joy to work

- Promote health literacy in asthma
- Common presentation before walk
 - -All over the country
 - ->50 initiatives
 - ->3000 people participated!









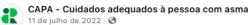




4. Bring joy to work

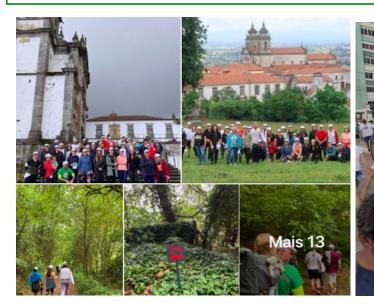
- Building on success of 2022 Walk with Asthma
- Planning local awareness events, e.g. walks in various cities in Portugal
 - Working with health units and local partners (e.g. municipal councils)
- Repeated in Brazil





No âmbito da comemoração do Dia Mundial da Asma, o Movimento CAPA (Cuidados Adequados à Pessoa com Asma), componente portuguesa do projeto internacional designado por ARC – Asthma Right Care em parceria com o Grupo de Estudos de Doenças Respiratórias (GRESP) da APMGF dinamizou atividades de caminhada programadas ao longo do mês do maio por todo o país. A CaminhAsma contou com cerca de 3200 inscrições, envolvendo a participação de aproximadamente meia centena de unidades de sa... **Ver mais**





5. Apply evidence about achieving change at scale



NHS Leading Large Scale Change



Pervasiveness: Affect as many parts of the system as we can

Depth:

Affect ways of thinking and doing – influence cognitive behaviour, and ultimately achieve paradigm shift

Size:

Reach as many geographies as possible

NHS England. Leading Large Scale Change: A Practical Guide. Available at: <u>https://www.england.nhs.uk/wp-content/uploads/2017/09/practical-guide-large-scale-change-april-2018-smll.pdf</u> (Accessed August 2023)



Riding a bike is easy: unconscious incompetence



Don't even need to think about it now: unconscious competence



Ah, it's harder than it looks, this feels awkward: conscious incompetence





Let me practise, and concentrate: conscious competence

Achieving competence – the journey

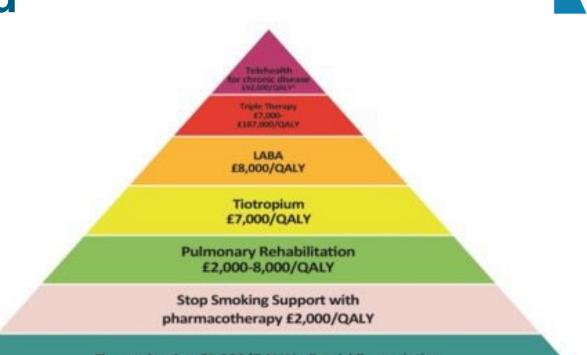
I am confident to teach others because I understand the process and can tailor my teaching: conscious competence of unconscious incompetence

IPCRG Teach the Teacher programmes

7. Value: London Respiratory Network Value Pyramid



New



RIGHT

CARE

INITIATIVE

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

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

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



Behaviour change: Asthma Right Care example

SPOT THE TEACHABLE MOMENT

Instead of simply providing the SABA canister on demand,

Community pharmacists take advantage of this **teachable moment**,

Offer accurate information Refer the individual to a follow-up appointment with their primary care physician when necessary



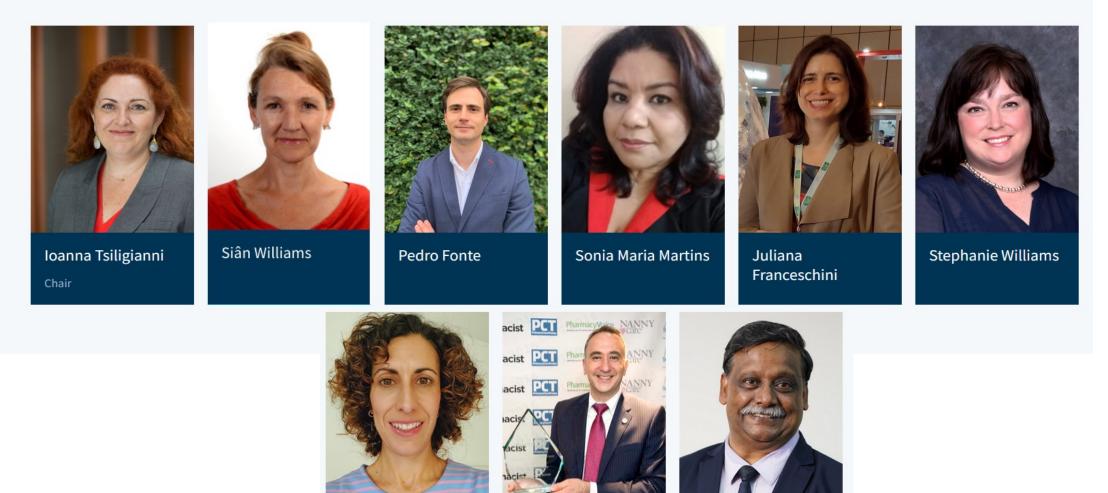
What does an ideal teachable moment at the community pharmacy look like?



Hi. Can I have a canister of salbutamol, please?



COPD Right Care Strategy Team



Ana Viejo



What does good quality COPD care look like?

IPCRG is regularly asked by primary care clinicians to define good quality care. We take the view that primary care is person-centred, and therefore the best way to define quality is from the perspective of the person at risk of, or with the condition. From our regular conversations with expert patients and clinicians we have summarised what good quality care should look like from a patient perspective and how can clinicians provide that in 10 person-centred statements. These are divided into five areas: Prevention, Diagnosis and communication about the diagnosis, Management, Review and Referral. Our vision is that clinical teams will use them to benchmark their practice and potentially identify an area for improvement. Our own programme of work is steered by these statements. We are currently defining the competencies required to deliver them and the teaching methods and tools to enable deliverv.





IPCRG tools that we already offer are listed in blue italics.*

People with exposure to risk factors for COPD deserve...

Prevention

1 Information, advice on mitigation and public health protection including local and personal risk factors. https://www.ipcrg.org/howwebreathe and helping people quit.

People with COPD deserve...

Diagnosis and communication about the diagnosis

2 A primary care service that is competent and confident in diagnosing COPD including timely, accurate and objective tests, and information about COPD, its causes, the likely timeline, how it can be managed but not cured, and the consequences of decisions about treatment and self-management. Desktop helper 14 (spirometry), desktop helper on earlier diagnosis, COPD Right Care wheel.

Management

- 3 A primary care team competent to classify the stage and type of their link to disease over time using spirometry, quality of life and exacerbation history and competent to assess other morbidities.
- 4 Long term holistic management according to the guidelines including vaccination, counselling and treatment if they are tobacco dependent, pharmacological and non-pharmacological treatment and referal eg to pulmonary rehabilitation, end of life care. <u>Desktop</u> helpers 3 (supportive & palliative approach), 4 (quit smoking), 6 (ICS and ICS withdrawal), 7 (pulmonary rehabilitation), 8 (women & COPD), 10 (multi-morbidity) and 12 (mental health), www.ipcrg.org/copdwheel
- 5 To be offered appropriate inhaler(s) according to their physical and cognitive abilities and characteristics and appropriate inhaler technique training by a primary care professional who knows the importance of eosinophil count and that bronchodilation is the basis of treatment. eg www.rightbreathe.com
- 6 Yearly flu vaccination, pneumococcal, Tdap, herpes zoster and COVID-19 vaccinations according to their history and national schedule.
- 7 To agree an individualised self-management plan including recognition of exacerbations, smoking cessation, breathing exercises, nutrition, and physical activity taking into consideration mental and physical health, health literacy and access to care. www.ipcrg.org/cog/magazine
- 8 To be asked in a culturally appropriate way about exacerbations, to receive reassurance and appropriate treatment and to be followed up to ensure they have adequate support.

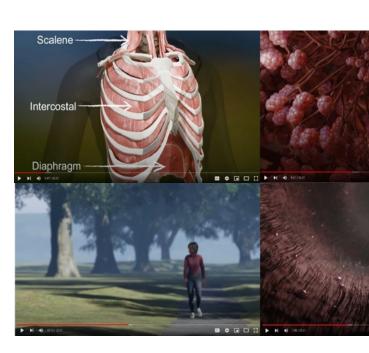
Review

9 A structured assessment of their symptoms, wellbeing, inhalation technique, future risk and support needs at acceptable intervals with additional follow-up after an exacerbation or a change in management. <u>Desktop helper 3</u>.

When their COPD cannot be managed in their usual primary care

10 To have easy and timely access/referral to a primary or secondary health care professional who is skillful in COPD management whenever their COPD cannot be managed in their usual primary care. *Interactive version available with hyperlinks. Scan the QR code.









Helping patients quit tobacco: Very Brief Advice (VBA)

An easy, positive and effective way to help tobacco users quit Ask, Advise & Act'

VRA works at any point during a consultation about another handlin matter. VRA is proven to increase the chances of an individed matteries grant theorem is introgen; in differences increases if more informs use in more of the time, the modifies of the patient to respond is variable therafer. It is increase the chance of them encountering a VRA trained clinician, we are more likely to catch a neady patient on the right day.

1. ASK: during a consultation about another health matter

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"Have you used tobacco at all in the last year?" OR. "I can see from your records that you have used tobacco recently, is that still the case?

2. ADVISE: about effective ways to quit (and if necessary, about the harms of tabacco)

medication?	sponse and available behavioural support and first line quit tobacco
medication. At the optimal and of the scale, PCRG me medicines that are available free for patients as part of minute appointments for the behavioural support eleme	is with the combinedian of balanizousti apport from a harised divicion and the use of a first line gait tabaona the contrains have many modulities of nextine replacement therapy and a number of anti-nextine reseptor. In advand leading hyperthy, Balan auxiliary and also have a have all by blaces workforms that any provide 2014 of of the intervention. This have disk under all the intervention along the blaces modeling are not disability of an a programmer of the places specialized. Will its blace the softward by blaces workforms are not disability of a second second specialized and the contraints when also belows the the same appropriate
"Would you like to talk a	bout the options evailable to help with your tabacco use today?"
No: That's OK. Could I ask your permission to talk about this again next time we meet in cas you have changed your mind? If you do reconsider before then I would be happy to se you for an appointment to talk about this more	exch to your situation ag you may not yet have a CD monitor) Option 1 – Well developed stop tobacco service and free medicines Option 2 – Ny ⁽¹⁾ mild stop tobacco service and some free medicines
Optimize advalued circles reconsider (COT) type for the indexed and carbon monotained (COT) type for the indexed and carbon that this is one for you bolds to consider a stock with the indexed and carbon the stock of the indexed and carbon the stock of the indexed and carbon the indexed and ca	tentment. After but this is one measure for you both to molitore process- tenum that in addition to they are or a colloque within your or generations the about instruction of the process of the tent of



DESKTOP HELPER

for healthcare professionals

No. 4 May 2019 3rd edition

Helping patients quit tobacco: Very Brief Advice (VBA)

An easy, positive and effective way to help tobacco users quit: Ask, Advise & Act

VBA works at any point during a consultation about another health matter. VBA is proven to increase the chances of an individual making a auit attempt. It is a triager; its effectiveness increases if more clinicians use it more of the time: the readiness of the patient to respond is variable therefore if we increase the chance of them encountering a VBA trained clinician, we are more likely to catch a ready patient on the right day.

1. ASK: during a consultation about another health matter

Ask ALL patients about tobacco use (smoking or smokeless tobacco) at every clinical contact. Document tobacco/smoking* status because this makes it easier for colleagues in your health system to ask the question next time, especially if you have a shared record with patients and colleagues IT DOES NOT NEED ANY ASSESSMENT OF READINESS TO QUIT

"Have you used tobacco at all in the last year?" OR "I can see from your records that you have used tobacco recently. Is that still the case?"

2. ADVISE: about effective ways to guit (and if necessary, about the harms of tobacco)

In most IPCRG member countries public health programmes use the media to communicate the harm caused and so the population usually knows that the use of tobacco is harmful. Where it is well understood that tobacco causes harm then advising this again can be counter-productive and not seen by the patient as a support position. However, the impact on awareness across a population can vary. Therefore base your advice on what you understand your patient and your local population's awareness to be and personalise a clear strong message. If your Public Health system has been effective in raising the TENSION around tobacco then your role is to enact the TRIGGER. Give your advice on quitting with a positive and supportive tone and with a sense of hope.

"Do you know the best way of stopping using tobacco or reducing its harm? We know from research studies that the best way of stopping using tobacco is through the use of stop tobacco medicines combined with regular help, support and encouragement, especially in the first 4 weeks and ideally for 3 months of an attempt"

3. ACT: according to the patient's response and available behavioural support and first line quit tobacco medication²

You will now need to ACT. The best way to stop tobacco is with the combination of behavioural support from a trained clinician and the use of a first line quit tobacco medication. At the optimal end of the scale, IPCRG member countries have many modalities of nicotine replacement therapy and a number of anti-nicotine receptor medicines that are available free for patients as part of a national health system. These countries will also have a trained stop tobacco workforce that can provide 20-30 minute appointments for the behavioural support element of the intervention. We have also worked with countries where stop tobacco medicines are not available at all or only available to purchase privately and where there is no programme of stop tobacco specialists. We illustrate these scenarios below. Refer to the most appropriate.

"Would you like to talk about the options available to help with your tobacco use today?"

alk about this again next time we meet in case ou have changed your mind? If you do econsider before then I would be happy to see	Yes: That's great, here are some of the options that are open to you now each to your situation eg you may not yet have a CO monitor) Option 1 – Well developed stop tobacco service and free medicines Option 2 – No/limited stop tobacco service and some free medicines Option 3 – No/limited stop tobacco service and private only medicines

Option 1 Consider exhaled carbon monoxide (CO) testing prior to referral and advise that this is one measure for you both to monitor success. Ensure that the service you refer to offers both behavioural and pharmacotherapy interventions and that staff are trained and updated Assure the patient that you will prescribe appropriate medicines if requested by the service for as long as is required. Reassure about the value and safety of these medicines. Hand out written material/contact numbers to show your support. Make sure your referral happens: have a system to check: Ask for feedback from the service. Consider offering initial prescription of NRT patches.

Option 2 & 3 (See section 4)

(tailor

Consider exhaled carbon monoxide (CO) (if available) testing before starting treatment. Advise that this is one measure for you both to monitor success. Ensure that in addition to VBA, you or a colleague within your organisation has been trained and updated to provide brief behavioural and pharmacotherapy interventions for tobacco (that is, more than VBA which is very brief and may include motivational interviewing (MI)). Explore with the patient the options for over the counter (OTC) or prescribed free and private medicines. Reassure about the value and safety of these medicines. Explain that they will have greater success if they see a health professional

as well as taking medicines. Taking stop tobacco medicines OTC without support is no more effective than an unassisted guit and could be a waste of money for your patient.

Hand out any written material/contact numbers to enhance the support you have offered

* we have used "tobacco" rather than "smoking". If, in your context it is better to use "smoking" please adapt

The evidence-based VBA, Ask-Advise-Act, is intended to be used by all healthcare practitioners and works best when there is a nationally-funded stop tobacco service that includes free pharmacotherapy. Identified people who wish to quit or reduce harm are best managed in evidence-based services where practitioners are formatively trained and regularly updated. However, globally such an offer is not always available and individuals and organisations will need to agree a treatment plan for people who receive VBA and declare a desire to quit in the absence of a comprehensive national service.

We explain why we advocate 3As not 5As in our position paper." However, this does not preclude the family practitioner with a long-term relationship with the tobacco user and family from supporting the individual with other behaviour change techniques to help treat their dependency

VBA is intended to serve as the minimal treatment that should be delivered to all patients. More involved quit tobacco interventions which support behaviour change techniques are intended to be delivered by the specialist tobacco cessation service or, when not available, by GPs who have been trained in evidence-based tobacco treatment and can work with the person long-term as part of their long-term condition management. Tobacco dependency is a long-term relapsing remitting condition and therefore needs an intervention from a clinician.

Motivational Interviewing (MI) is effective in treating people with tobacco dependence. You may have had training in the principles of MI as part of primary care training. These principles can be effectively and easily applied by a range of clinicians in the treatment of tobacco dependence. A Cochrane systematic review with moderate quality evidence' supports - particularly the GP - in delivering this intervention. It can be done, and is preferable to be done, in less than 20 minutes. This is therefore likely to be a significant treatment option in those countries where pharmacotherapy and stop tobacco specialists are not available.

More than VBA: when you have a dedicated appointment

Brief advice, prescribing and motivational interviewing work best when you have dedicated time as you would for a blood pressure or diabetes appointment

It is ideal if the quit tobacco intervention below is delivered in a session dedicated to helping the patient with their tobacco use. However, we also acknowledge that many 2 minute episodes over a life course can also have a positive impact. If you are providing the service, you may be able to develop a standard schedule such as a package of 5 consultations. If so, "frontload" the consultations with more early on.

Start with the Visual Analogue Scale (VAS) for motivational interviewing

	nportant is it 1 2. On a score		p tobacco v here 0 is n		ot at all im at all and	portant and 10 is totally			
1	2	3	4	5	6	7	8	9	10

Dialogues: Select from these and adapt to your own style and rapport with the patient. More listening than talking!

Green dialogue	"That's great to hear. Why is it a 9 for confidence not a 7?" LISTEN to reply as way to hear patient beliefs; which often include stopping without help. "It sounds like you really want to try stopping tobacco (again). May I talk you through the options that are available for us to help you (building on what worked for you last time)?".
Amber dialogue	"Can you tell me why is it a 6 and not a 4?" LISTEN to reply; and celebrate previous quitting success, which is what is often the reason given, although perceived by the patient as failure because they have then relapsed. Reflect back "It sounds like this has been really hard for you in the past but even so you succeeded for xx time. What would need to happen to move this up to an 72" Listen to reply then ask permission "May I talk you through some of the options we now have available that we know work for patients like you, where tobacco is a big part of their lives, so that you can see whether you think any of them might be of interest to you?"
Red dialogue	"It sounds like tobacco is a really important part of your life. That makes me want to know why you've scored it as a 3 and not a 1?" USTEN to reply and name and affirm all positives. Reflect back "It sounds like this has been really hard for you in the past and you still feel it's not the right time for you to stop tobacco. We know that nicotine is more addictive than heroin, even so you succeeded before for xx time." "What would need to happen to move this up to a 4 or 57" Listen to reply then ask permission "I am hearing this does not feel the right time for you to stop tobacco and I completely respect this. However, we also saw that your CO level was very high x, and we know this is making your condition leg brachtlessness/COPD/asthmaj worse. If it would be helpful, I am happy to talk with you about what we could offer in the form. The weak new known works for architent like your where physics have completely use a partice at 6 thesi liner.

The themes used in MI conversations are more listening than talking, using open-ended questions, specifically naming and affirming previous success, communicating hope especially for a long-term condition so strongly associated with shame, reflecting back and summarising. A few other things that work include:

- Name and clarify that the team is not judgemental about tobacco "We know how hard this is and that this is an addiction and that nicotine is more addictive than heroin.
- Open-ended questions eg "Tell me about when you tried to stop tobacco before?"
- Exhaled CO testing is a very powerful motivator because the numerical reading improves quickly after cessation and is an objective measure⁴
 Encourage the person to imagine and communicate what they think might be the benefits of quitting; reflect back and summarise and tailor your offer

so you at least you know that we do have treatments that work."

- to their reply
- No unit know the patient's comorbidities so consider how treating their tobacco use can improve the other disease outcomes that they want eg "Did you know you ...will get fewer asthma attacks? ... your wounds will heal better after surgery?" Keep it positive.
- · However, most patients who use tobacco know this listen for the people who matter to them eg being around for grandchildren growing up.
- Explore and then reflect on ambivalent feelings: "What are the things you like and don't like about your tobacco use?" "On the one hand you say that and on the other.
- You may use these scales more than once in the consultation, or in subsequent conversations and if the scores increase, this will improve motivation.

If you are in the situation of options 2 or 3, where you will provide the counselling and medication advice then are some key actions you will want to take:

- Provide assistance in developing a quit plan how often will you see them; how long will the session be, and what is the duration of the treatment. A 12 week intensive treatment is recommended if varenicline is prescribed, but ongoing support may be needed for much longer.
- Agree with the patient how you will review them to prevent relapse and provide support over subsequent months and years.
- Could you use email, text or phone for some of these sessions?
- Help them to set a quit date make it realistic: a date chosen by the patient that you can then support.
 Know what pharmacotherapy is available OTC, free and private. Your best options are varenicline and combination NRT. Ensure doses are adequate. People guitting tobacco are often under-dosed on nicotine. Treat dosing, use and technique as seriously as you would for blood pressure or diabetes
 - Include the following as needed:
- Discuss abstinence and suggest coping strategies
- Encourage social support
- Assist in dealing with barriers such as fear of failure, stress coping, weight gain, social pressure
- · Give nutritional advice: sleep well, avoid caffeine and alcohol
- Physical activity may help
- Withdrawal symptoms occur mostly during the first 2 weeks and are less troublesome after 4-7 weeks

People with COPD deserve...

- 2. A primary care service that is competent and confident in diagnosing COPD including timely, accurate and objective tests, and
- Information about COPD, its causes, the likely timeline, how it can be managed but not cured, and the consequences of decisions about treatment and self-management.

Jimary Care IPCRG work locally collaborate globally DESKTOP HELPER aspitatory Group No. 14 April 2023 (revised June 2023)

Quick guide to spirometry

This desktop helper aims to provide primary care professionals with the information they need to prepare fi and interpret spirometry and understand its role and limitations in the diagnosis and monitoring of respir

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Any situation

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INTRODUCTION

Spirometry is an objective test that measures the volume of air a person can exhale and the speed (flow) at which they can do so.1-6 It is mandatory in diagnosing and monitoring chronic obstructive pulmonary disease (COPD), and important for asthma, idiopathic pulmonary fibrosis and chronic cough. Spirometry is also helpful in the evaluation of the impact of some systemic diseases on the respiratory system and helps in determining personal risk before surgical intervention

WHAT DO WE NEED TO DO?

Before the test

When performing spirometry, consider potential contraindications (Table 1). This test is highly dependent on the person's collaboration and the testing circumstances, therefore, the procedure should be explained beforehand and a decision made by the prescribing physician if the person should stop taking any espiratory medications prior to the test (se Table 2 for minimum timings). It may not b necessary to withhold medication if th purpose of the test is to determine whether the person's lung function can be improve with therapy in addition to their regula treatment

Instruct the person not to smoke, vap or use a water pipe and abstain from an strenuous physical exercise for at least on hour prior to the test, or to consum intoxicants up to 8 hours before the te Ask them to loosen any tight dothing Spirometry must be conducted in comfortable and well-ventilated roo (ideally, specific for spirometry), with the person sitting on a chair without arms, wheels or height adjustment. There must be scales, a stadiometer and a basic weather

station (if not already integrated with the test equipment). The spirometer should have a naximum error range of ±2.5% when tested with a 3L calibration syringe.

Preparing the person for spirometry Not all people will be able to produce good

raindications for spirometry.					
that puts the person's health is when making a significant is: It harmophysis event presentations. Having thomas in the part does not cote spirometry CV disease (e.g. engine, recent make or abdominal eneuryons ind detachment or recent eye g., cottasch) at or abdominal surgery	Situations in which min quality manaeuvres or such as: I inobility to understa- omilitagenes to fail Not understanding the eductionations, some Paper physical state (Presence of a trache considered necessar on a penson with a 1 Oral and/or facial p commet sealing of the mouthpieso (s.g., fail Uncomfortable more mouthpieso (s.g., fail				

conditivescular; Mi, myocondial inforction; PTE, pulmonary thrank

Drug	Minimum allow
Salbutamol, terbutaline, ipratropium	
Formateral, salmeteral	
Indoosterol, olodaterol, vikanterol	
Aclidinium	
Tiotropium, glycopyrronium, umeclidium	
Short-octing theophyllines	
Sustained-release theophyllines	1
Chromones	

quality spirometries, but the operator's them to sit up competence can improve the quality of the forward) while bi results · Input the person's data including age, height and sex at birth into the · Ask them to remove any dental prostheses if they are likely to move. · Seat them in a chair without arms, wheels or height adjustment with their

Explain the proc straightforward t follow my instruct 'inhale deeply ar on to the mout tightly sealed an

the way then blan hard as you can back against its backrest and both feet until your lungs o flat on the ground, uncrossed. Advise I tell you to be



DESKTOP HELPER

RIGHT

CARE

AN IPCRG INITIATIVE

No. 13 July 2023

Achieving earlier diagnosis of COPD

This desktop helper reviews the evidence for the benefits of earlier detection and diagnosis of COPD and provides healthcare practitioners (HCPs) with tools they can use to achieve this for the patients in their care.

WHY DOES EARLIER **DIAGNOSIS MATTER?**

time people seek help for their symptoms COPD is a common alobal condition with their FEV1 has often fallen to ~50% of considerable morbidity and mortality.1 predicted, a level at which health status is Underdiagnosis of COPD is a pensistent ubstantially reduced. In addition, other problem worldwide and continues to be a consequences of COPD such as major reason for the undertreatment of the condition despite the availability of effective cause people to be less active and less able non-pharmacotherapeutic and pharmacoto cope with the disease.1 The reasons for therapeutic interventions.² The global delayed diagnosis of COPD are numerous prevalence of COPD is estimated to be and complex including personal-, HCP- and 10.3%.2 The rates of underdiagnosis in low system-level factors that prevent the and middle-income countries may be reporting, recognition or identification of particularly high, with some estimates symptoms suggestive of COPD, or suggesting underdiagnosis rates in excess of the availability of spirometry, essential to

fingnose COPD (see the IPCRG Undiagnosed, symptomatic COPD is Quick guide to spirometry at: https:// associated with an increased risk for www.ipceg.org/ DTH14].2 It has been exacerbations, pneumonia, a marked considered by some practitioners and detrimental impact on quality of life (QoL), public as a self-inflicted disease if the person has smoked tobacco and this has and even premature death.1.4.6 COPD ed to stigma, self-blame and





caused by respiratory infections ensure

your patients receive vaccinations fil

CAN EARLIER INTERVENTION HELPS Earlier intervention for symptomatic COPI can result in better quality of life (QoL). A wide body of research indicatearlished diagnosis accompanied by earlier tervention delays lung function decline reduces symptom burden and improve QoL² To reduce the risk of exacerbation





Spirometry Simplified 1st run

Certified e-learning course (includes in-person masterclass)

What is it?

Spirometry Simplified is a IPCRG flagship initiative that aims to build capacity and spread the equitable use of Spirometry among primary care clinicians across the globe through research, education, and advocacy, to enhance earlier and accurate diagnosis of patients with obstructive airway diseases and thereby improve their quality of care.

The Spirometry Simplified course is being developed by leading experts in respiratory health and is a certified course that will train primary health care professionals and their assistants to prepare for, perform, evaluate and interpret high-quality spirometry.

How does it work?

- > Instruction language: English
- > 5 modules (4 online, 1 in person)
- > Primary care oriented
- > Self-paced flexible learning
- > Includes practical case studies
- > Certified by IPCRG
- > Taught by experts from all regions of the globe

Who is this course for?

- > General Practitioners
- > Nurses
- > Physiotherapists
- > Community Paediatricians (who offer primary care to children)
- > Pharmacy teams
- > Physicians (Internists, Pulmonologists, Paediatricians),
- > Other health care professionals with tertiary level education on respiratory anatomy and physiology

Course structure

Module 1 Understanding Spirometry Module 2 Preparing Spirometry Module 3 Evaluating Spirometry Module 4 Interpreting Spirometry Masterclass Performing Spirometry



Course duration

Online: 9 hours Masterclass: 3 hours @ IPCRG 12th World Conference, May 2024 (Athens)

Learning objectives

- By the end of this course, learners will be able to:
- > Understand the fundamentals of spirometry
- > Prepare for a spirometry test
- > Conduct a spirometry test
- > Perform spirometry quality assurance and quality control task
- > Evaluate the validity of the spirometry test result
- > Interpret the spirometry test result
- > Record and report the spirometry test result
- > Manage spirometry data / refer as needed
- > Set up a Spirometry Clinic

Faculty

Sundeep Salvi [course director], Director of Chest Research Foundation, India Enrique Cimas Hernando, Coordinador del Centro de Salud de Contrueces (Gijón), Spain Ioanna Tsiligianni, Associate professor, Faculty of Medicine, University of Crete, Greece Kerry Hancock, Education Coordinator Spirometry Learning Australia, Australia Jim Stout, Professor Emeritus, University of Washington and Spirometry 360 Creator, USA Lindsay Zurba, Director of Education for Health Africa, South Africa Stephanie Williams, Vice President for Education and Engagement COPD Foundation, USA Savi Wimalasekera, Faculty Medical Sciences, University of Sri Jayewardenepura, Sri Lanka Helmi Ben Saad, Professor of Physiology. Faculty of Medicine of Sousse, Tunisia

More information educationcoordinator@ipcrg.org



The International Primary Care Respiratory Group is a clinically-led charity registered in Scottand working internationally (SC035056); company limited by guarantee (SC255268). IPCRG represents primary care on the WHO-GARD Planning Executive, is the Respiratory Special Interest Group of WONCA Europe and the Organisation in Collaborative Relations with WONCA World. Coordinator of Global Health Respiratory Network rpj [Primary Care Respiratory Medicine



Course structure

IPCRG E-LEARNING



			erpiratory Group	
	exclusively online i	n Moodle (4 weeks)		in person
Module 1 Understanding Spirometry	Module 2 Preparing Spirometry	Module 3 Evaluating Spirometry	Module 4 Interpreting Spirometry	Practical workshop Performing Spirometry
1.5 hours online	1.5 hours online	1.5 hours online	1.5 hours online	3 hours in person
1.1 Respiratory anatomy and physiology relevant to spirometry	2.1 Key measurements of spirometry and methods for measuring results	3.1 Evaluating the correctness of subject data entry, choice of reference values and ethnic correction	4.1 Interpreting and grading the spirometry test result	5.1 Performing a linearity calibration check
1.2 Fundamentals of spirometry	2.2 Preparation for a spirometry test	3.2 Evaluating the test for acceptability, usability and repeatability, grade the test quality	4.2 Recording, reporting and keeping spirometry records	5.2 Performing a spirometry test
1.3 Setting up a Spirometry Clinic: Importance of Quality assurance & quality control	2.3 Performing a spirometry test	3.3 Evaluating the numerical results for best test and best trial in preparation for interpretation		5.3 Evaluating, recording and reporting the spirometry test result
	2.4 Conducting a spirometry			

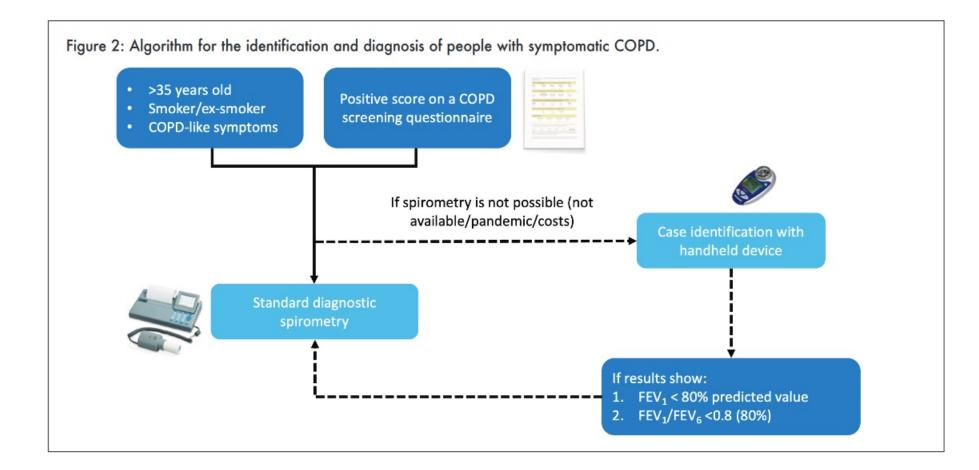
Figure 1: Barriers to earlier diagnosis in COPD and strategies to overcome them.

Barriers	Actionable Strategies
 Failure to recognise COPD given its slow, relentless progression Tendency to blame breathlessness on getting older and less active, assuming cough is normal (ie, 'smokers cough') Tendency to not complain about the condition (ie, 'the silence of people with COPD') Underemphasis on symptoms, which can cause HCPs to be less likely to consider COPD at an early stage and to be less aggressive with treatment Reluctance of smokers to report breathlessness for fear of being stigmatised for smoking 	 Patient education Family/caregiver education and engagement Proactive case-finding of people with symptoms suggestive of COPD
 Not considering repeated bronchial infections as an early sign of COPD Not considering COPD in nonsmokers Focusing only on comorbidities (patients with COPD often have multiple comorbidities that may be more pressing and clearer to diagnose) Not considering COPD in women due to gender bias (assuming asthma in females) Not investigating COPD earlier because smoking cessation is the main intervention for all smokers regardless of COPD status Tobacco dependence services and support often not offered/available 	 HCP education Increased vigilance for symptoms suggestive of COPE (especially in older at-risk patients)
 Inconsistent performance of spirometry and lack of spirometry training in primary care Controversy over spirometry in primary care for early detection discouraging some HCPs Lack of funding/reimbursement for spirometry in primary care Lack of spirometry availability Delays in receiving spirometry reports when done outside of the office 	 HCPs with special interest Microspirometers to rule out COPD Spirometry training Local level funding strategies
 Time pressures in primary care settings adversely affecting providers' capacity to manage patient proactively Respiratory epidemics (eg, COVID-19) creating significant obstacles to patient evaluation, and the delay or cessation of diagnostic services 	Development of clear local guidelines on how to proceed in busy practices or in respiratory epidemics
	 Failure to recognise COPD given its slow, relentless progression Tendency to blame breathlessness on getting older and less active, assuming cough is normal (ie, 'smokers cough') Tendency to not complain about the condition (ie, 'the silence of people with COPD') Underemphasis on symptoms, which can cause HCPs to be less likely to consider COPD at an early stage and to be less aggressive with treatment Reluctance of smokers to report breathlessness for fear of being stigmatised for smoking Not considering repeated bronchial infections as an early sign of COPD Not considering COPD in nonsmokers Focusing only on comorbidities (patients with COPD often have multiple comorbidities that may be more pressing and clearer to diagnose) Not considering COPD in women due to gender bias (assuming asthma in females) Not investigating COPD earlier because smoking cessation is the main intervention for all smokers regardless of COPD status Tobacco dependence services and support often not offered/available Inconsistent performance of spirometry and lack of spirometry training in primary care Lack of funding/reimbursement for spirometry in primary care Lack of spirometry availability Delays in receiving spirometry reports when done outside of the office Time pressures in primary care settings adversely affecting providers' capacity to manage patient proactively Respiratory epidemics (eg, COVID-19) creating significant obstacles to patient evaluation, and

Table 1: Examples of tools for identifying people with symptoms suggestive of COPD in primary care settings who should be considered for spirometry

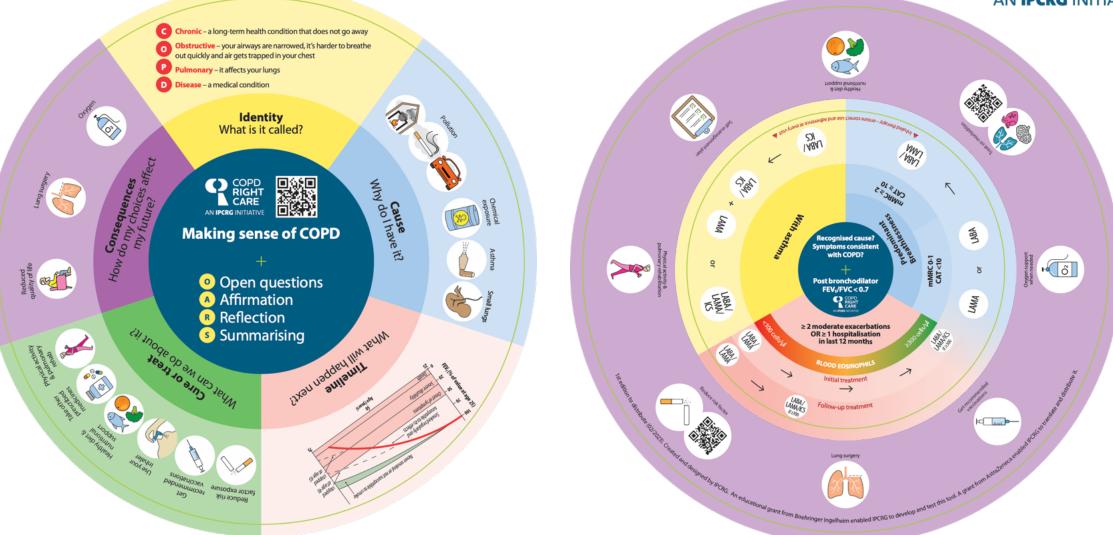
Tool	Comments	Web address
Canada Lung Health Test ²⁶	Simple and quick to administer; not validated. 5 questions	https://www.lungsask.ca/medi 16
COPD Population Screener (COPD-PS) ²⁷	Internationally recognised and validated. Simple and quick to administer, 5 questions + age	https://www.copdfoundation.o /Screener.aspx
COPD Assessment in Primary Care To Identify Undiagnosed Respiratory Disease Risk (CAPTURE) ²⁸	Validated and includes measurement of PEF. Good discriminatory capacity in LMIC settings. ²⁸ Low sensitivity for detecting clinically significant COPD in a US primary care population. ²⁹	https://www.researchgate.net/ gure/The-CaPTUre-COPD- assessment-in-primary-care-to identify-undiagnosed-respirator disease_fig1_325741206
COPD in LMICs (COLA) ³⁰	Validated and good discriminatory capacity in LMIC settings; ²⁸ can be used alongside PEF ³¹	https://www.dovepress.com/a- novel-case-finding-instrument- for-chronic-obstructive- pulmonary-dise-peer-reviewed fulltext-article-COPD

Identification and diagnosis of people with symptomatic COPD



COPD Wheel





1st edition to distribute (02/2023). Created and designed by IPCRG. An educational grant from Boehringer Ingelheim enabled IPCRG to develop and test this tool. A grant from AstraZeneca enabled IPCRG to translate and distribute it.

What does good quality COPD care look like?

IPCRG is regularly asked by primary care clinicians to define good quality care. We take the view that primary care is person-centred, and therefore the best way to define quality is from the perspective of the person at risk of, or with the condition. From our regular conversations with expert patients and clinicians we have summarised what good quality care should look like from a patient perspective and how can clinicians provide that in 10 person-centred statements. These are divided into five areas: Prevention, Diagnosis and communication about the diagnosis, Management, Review and Referral. Our vision is that clinical teams will use them to benchmark their practice and potentially identify an area for improvement. Our own programme of work is steered by these statements. We are currently defining the competencies required to deliver them and the teaching methods and tools to enable deliverv.

PCRG officially control of the second second

RIGHT

IPCRG tools that we already offer are listed in blue italics.*

People with exposure to risk factors for COPD deserve...

Prevention

1 Information, advice on mitigation and public health protection including local and personal risk factors. https://www.ipcrg.org/howwebreathe and helping people quit.

People with COPD deserve...

Diagnosis and communication about the diagnosis

2 A primary care service that is competent and confident in diagnosing COPD including timely, accurate and objective tests, and information about COPD, its causes, the likely timeline, how it can be managed but not cured, and the consequences of decisions about treatment and self-management. <u>Desktop helper 14 (spirometry), desktop helper on earlier diagnosis, COPD Right Care wheel.</u>

Management

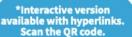
- 3 A primary care team competent to classify the stage and type of their link to disease over time using spirometry, quality of life and exacerbation history and competent to assess other morbidities.
- 4 Long term holistic management according to the guidelines including vaccination, counselling and treatment if they are tobacco dependent, pharmacological and non-pharmacological treatment and referal eg to pulmonary rehabilitation, end of life care. <u>Desktop</u> helpers 3 (supportive & palliative approach), 4 (quit smoking), 6 (ICS and ICS withdrawal), 7 (pulmonary rehabilitation), 8 (women & COPD), 10 (multi-morbidity) and 12 (mental health), www.ipcrg.org/copdwheel
- 5 To be offered appropriate inhaler(s) according to their physical and cognitive abilities and characteristics and appropriate inhaler technique training by a primary care professional who knows the importance of eosinophil count and that bronchodilation is the basis of treatment. eg www.rightbreathe.com
- 6 Yearly flu vaccination, pneumococcal, Tdap, herpes zoster and COVID-19 vaccinations according to their history and national schedule.
- 7 To agree an individualised self-management plan including recognition of exacerbations, smoking cessation, breathing exercises, nutrition, and physical activity taking into consideration mental and physical health, health literacy and access to care. www.ipcrg.org/cog/magazine
- 8 To be asked in a culturally appropriate way about exacerbations, to receive reassurance and appropriate treatment and to be followed up to ensure they have adequate support.

Review

9 A structured assessment of their symptoms, wellbeing, inhalation technique, future risk and support needs at acceptable intervals with additional follow-up after an exacerbation or a change in management. <u>Desktop helper 3</u>.

When their COPD cannot be managed in their usual primary care

10 To have easy and timely access/referral to a primary or secondary health care professional who is skillful in COPD management whenever their COPD cannot be managed in their usual primary care.





People with COPD deserve

3. A primary care team competent to classify the stage and type of their disease over time using spirometry, quality of life and exacerbation history and competent to assess other morbidities.

Modified MRC Dyspnea Scale

Table 2.7

2023 Teaching Slide Set

PLEASE TICK IN THE BOX THAT APPLIES TO YOU | ONE BOX ONLY | Grades 0 - 4

mMRC Grade 0	mMRC Grade 1	mMRC Grade 2	mMRC Grade 3	mMRC Grade 4
I only get breathless with strenuous exercise	I get short of breath when hurrying on the level or walking up a slight hill	I walk slower than people of the same age on the level because of breathlessness, or I have to stop for breath when walking on my own pace on the level	I stop for breath after walking about 100 meters or after a few minutes on the level	l am too breathless to leave the house or I am breathless when dressing or undressing
Reference: ATS (1982)) Am Rev Respir Dis. Nov;	126(5):952-6.		



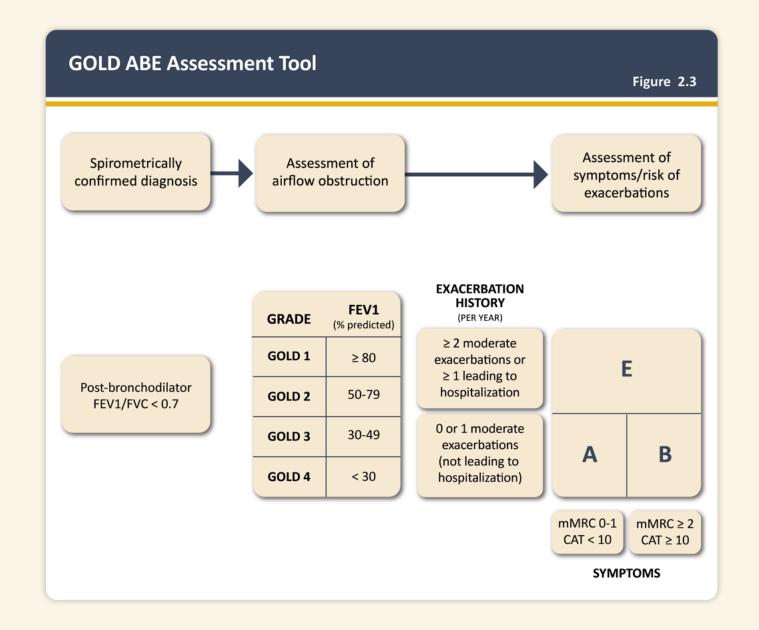
CAT™ Assessment

Figure 2.2

For each item below, place a mark (x) in the box that best describes you currently. Be sure to only select one response for each question.

EXAMPLE: I am very happy	0 🗶 2 3 4 5	I am very sad	Score
l never cough	012345	I cough all the time	
I have no phlegm (mucus) in my chest at all	012345	My chest is completely full of phlegm (mucus)	
My chest does not feel tight at all	012345	My chest feels very tight	
When I walk up a hill or one flight of stairs I am not breathless	012345	When I walk up a hill or one flight of stairs I am very breathless	
l am not limited doing any activities at home	012345	I am very limited doing activities at home	
I am confident leaving my home despite my lung condition	012345	I am not at all confident leaving my home because of my lung condition	
I sleep soundly	012345	I don't sleep soundly because of my lung condition	
I have lots of energy	012345	l have no energy at all	
Reference: Jones et al. ERJ 2009; 34	(3); 648-54.	TOTAL SCORE:	





2023 Teaching Slide Set



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*Interactive version available with hyperlinks.

Scan the QR code.



DESKTOP HELPER No. 3 April 2022

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

IPCRG

INTRODUCTION

People live with COPD from years to decode

People live with CCPD tran years to decodes, experiencing a lower quality of life (Qok), and greater functional limitations, anxiety and depression than others who are the same age without COPO. These potentially significant changes in QoL and expectations fram life

changes in Coc and expectations them the may be impreved with enhanced care, highlighting the need for a long-term and holistic approach to support people with COPD, their family and caregivers. Con

selection is based on repeated discussion

sector a collector reported accusate during the evaluting programs and simplifies trajectory, identifying and minimising distressing symptoms and ensuring medical physical, social and spinitud support. This may include supporting access to supportin and francola core pocleages from social can and other non-medical services.¹ From

and other non-medical services.¹ From beginning to end, COPD must be treater using all available appropriate therapies fo COPD AND the common co-marbidities sud as cardiovascular disease (CVD), depression.

anxiety, diabetes, renal disease, lung cance and asteoparasis. Treatment must be based

on appropriate evolutions and knowledge of the person's functional status and person goals at each stage of COPD stabilisation and

progression (e.g. evoluated at least annually) Variations will depend on the local availabilit

of healthcare and therapies, cultural norm and the individual's beliefs and goals.

COPD is a chronic disease that impacts ever aspect of life and is often diagnosed after months or years of people reducing a

eliminating activities to lessen breathlesses or feelings of "air hunger" or forligue. Fo people living with COPD, breathlesses may be due to a combination of factor

inducing common comarbidities such a heart disease or anxiety.^{2,3} COPD lower evenal QoL including social interactions mood, work, family life and self-con (Figure 1).⁴

IMPACT OF COPD

wiratory Group

This desktop helper supports a long-term halistic 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 like fin individual and their family, sub-improgramsion, reducing symptoms and preventing exactbolions, which is why politative a policy provides the COPD diagnoses is communicated. It is important to remember that "pullative" is a barrier that address individual needs accesses the spectrum of COPD.

to open important discussions. People living with COPD remind us --- "If you ask us questions then USTEN to our answers" Figure 1: The high burden of COPD International survey of people with COPD receiving mointenance therapy Table 2 provides questions to guide Toble 2 provide questions to guide discussion on long-term core to help you explore the broader aspects of care and identify those areas of greatest importance to each individual. An important advantage of care Arrists imported Topotent Hanniheld State



WITH COPD

DESKTOP HELPER No. 6 2nd edition May 2020

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

he purpose of this desktop helper for the appropriate use and withdrawal of inhaled corticosteroids (ICS) is to: Help primary care clinicians identify patients with chronic obstructive pulmonary disease (COPD) who would benefit from ICS treatment compared to those in whom it may not be appropriate, and Provide guidance on how to withdraw ICS in patients with COPD in whom it is not needed

THE ROLE OF ICS IN THE CURRENT RECOMMENDATIONS | IPCRG GUIDANCE ON WHEN TREATMENT OF PATIENTS ON ICS USE FOR PATIENTS TO BEGIN ICS IN PATIENTS WITH COPD WITH COPD

In COPD, evidence supports the use of an For all patients with COPD, LABDs are . Consider ICS combined with bronchoinhaled corticosteroid (ICS) in combination recommended as first-line treatment. For dilators as initial treatment in a recently with a long acting beta-agonist (LABA) or as patients whose disease is classified as diagnosed patient and/or a patient who part of a triple therapy regimen with the GOLD 'D' (i.e. symptomatic with is pharmacological treatment "naive" addition of a long acting muscarinic. exacerbational with a history of asthma or based on the history of asthma risk of



DESKTOP HELPER No. 7 July 2017 Pulmonary Rehabilitation in the community

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!

> nary Rehabilitation? structured programme tailored to an reathlessness, improve their quality of ssness), and improve their exercise e improves people's ability to cise-based programme accompanied help people live better with chronic and should be integrated into, their in to reduce the use of expensive care. It can be delivered safely in the spite its proven clinical and cost-

> > unctionally limited by their nagement.

s like COPD become breathless with rightening for them and their families void activities which make them onditioning, demotivation and

o communicate, even if difficult for and and healthcare professionals to

around is NORMAL." to feel short of breath whilst moving.

"That is an important decision, well done. I will now refer you..." either "... to the Pulmonary Rehabilitation programme" or "... to see an expert who can assess your breathlessness and decide on the right programme for you," or ACT: If they say no/not yet "It is your choice of course so let me know if

you change your mind and I will ask again when we next meet. It is a great opportunity to meet others with a similar experience, to learn to control your breathlessness and to reduce the impact of your breathlessness on vour life"

Provide information and education about their condition and how they can best live with and manage their problems and medications e.g. Living Well and IPCRG. This will be reinforced in the programme.

Your role in optimising use of PR: planning Highlighted examples at www.ipcrg.org/PR

As a referrer you can contribute to getting improved outcomes and programme efficiency because there can be obstacles.³

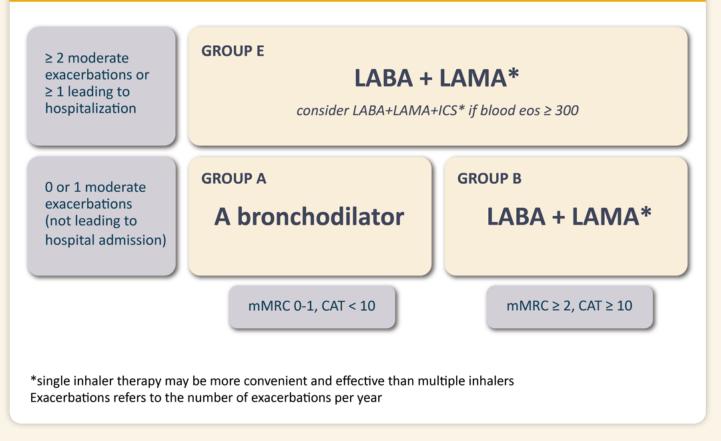
Diagnosis Person is not diagnosed or receives wrong diagnosis	GP referral GP does not believe in or communicate to the person the importance & benefits of PR	Assessment Person does not present for their assessment
Maintenance	Ongoing	Start of
Person does not	Programme	Programme
maintain activity	Person does not	Person does not
after the	complete the	turn up to begin

Initial Pharmacological Treatment

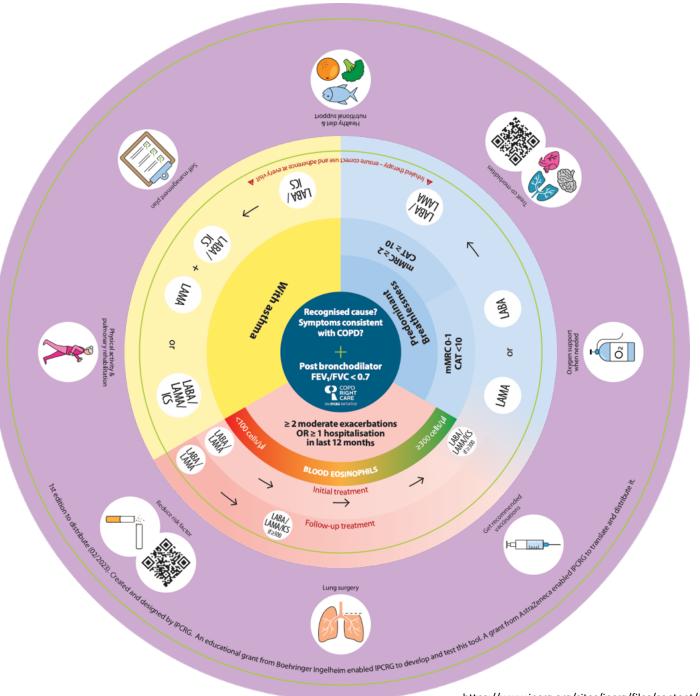
Figure 4.2

2023

Teaching Slide Set







ICS?

IPCRG

DESKTOP HELPER No. 6 2nd edition May 2020

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

The purpose of this desktop helper for the appropriate use and withdrawal of inhaled corticosteroids (ICS) is to: Help primary care clinicians identify patients with chronic obstructive pulmonary disease (COPD) who would benefit from ICS treatment compared to those in whom it may not be appropriate, and 2. Provide guidance on how to withdraw ICS in patients with COPD in whom it is not needed.

THE ROLE OF ICS IN THE CURRENT RECOMMENDATIONS | IPCRG GUIDANCE ON WHEN TREATMENT OF PATIENTS ON ICS USE FOR PATIENTS TO BEGIN ICS IN PATIENTS WITH COPD WITH COPD WITH COPD In COPD, evidence supports the use of an For all patients with COPD, LABDs are 1. Consider ICS combined with bronchoinhaled corticosteroid (ICS) in combination recommended as first-line treatment. For with a long acting beta agonist (LABA) or as patients whose disease is classified as part of a triple therapy regimen with the GOLD 'D' (i.e. symptomatic with addition of a long acting muscarinic antagonist (JAMA) to reduce the risk of with blood easinophil counts a300 cells/pl, symptomatic exacerbations.¹ The effect of initial therapy with LABA/ICS combination there regimens (ICS/LAMA/LABA and ICS/ may be the first choice.¹ Patients with LABA vs LABA/LAMA) is greater in patients I concomitant ashma should be treated with with high exacerbation risk (#2 exacerbations ICS combined with a LABA.⁶ After initial and/or 1 hospitalization in the previous therapy, clinical response should be year).²⁻⁴ However, until recently there has reviewed and adjustments made to been no consistent evidence on the long-term effects of ICS on mortality or the group of decreasing therapy, to obtain optimal patients who would benefit most.¹ Recent studies have shown that blood are experiencing increased breathlessness PATIENTS WITH COPD eosinabili contra predici the effect of CS in and other symptoms, adjustment of therapy preventing future exacutations in COPD15 to ensure maximal branchodilation is and they can be used as a biomatier to evanismed. Current gridelines do not content with COPD. Here is evidence of estimate the banefits of adding KS to regular recommend ICS therapy if deterioration is patients with COPD, there is evidence of bronchodilator treatment for individual driven by symptoms.1

WITH ICS THERAPY

There is high quality evidence from There is high quality evidence from randomized controlled trials (RCTs) that ICS treatments such as roflumilast and use is associated with many adverse effects azihromycin can be considered. vo is ouocided with many odverse effect. In polients with blood equinophili bruining and prevencies and reach of between could also be associated with increased risk of diabeter/por control of diabetes, catoroda, categoporais, fractive and mycobasterial infection including *harubuiki 1

dilators as initial treatment in a recently diagnosed patient and/or a patient who is pharmacological treatment "naive" based on the history of asthma, risk of exocerbation, and easinophils as shown in Table 1. 2. Consider ICS after reassessment of patients with COPD not previously treated with ICS based on risk of exocerbations and easinophils as shown in Table 1. symptom control. When potients with COPD CURRENT USE OF ICS FOR patients. Guidelines implementation has In COPD patients who continue to ADVERSE EFFECTS ASSOCIATED operations band autoration for a severation for a severation between a severation and a sev oppropriate bioincipality of the proving of the property of th

EVIDENCE FOR ICS

TABLE 1. IPCRG GUIDANCE ON WHEN TO BEGIN ICS IN PATIENTS WITH COPD. FIRST OPTIMISE BRONCHODILATION.								
1. Initial treatment	 a. Well documented previous history of asthma, especially if diagnosis under 40 years' old b. ≥2 moderate exacerbations or 1 hospitalization in the previous year and >300 eosinophils µL⁻¹ 							
2. Reassessment [†]	 a. ≥2 moderate exacerbations or 1 hospitalization in the previous year* and >300 eosinophils µL^{-1*} b. ≥2 moderate exacerbations or 1 hospitalization in the previous year* and eosinophils µL⁻¹ >100 but <300 after carefully balanced risk-benefit considering: Recent pneumonia Confirmed bacterial colonization Bronchiectasis Comorbidities, especially diabetes and osteoporosis or those at risk for these conditions 							
 Patient not previously on ICS * Or since previous assessment if less than 12 months 								

Multimorbidity

DESKTOP HELPER No. 10 December 2019

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

This desktop helper describes the challenges associated with the pharmocological management of the patient with COPD and multiple comorbid conditions with a particular focus on the rational use of inhaled conficosteroids and provide guidance for the holistic care of such patients in the primary care setting.

INTRODUCTION

IPCRG

Chronic obstructive pulmonary disease diabatest 57 (COPD) is typically accompanied by multiple comorbid conditions. However, guidalines for the management of patients with COPD focus on the disease itself, providing little practical WITH COPD guidance on the routine management of comorbidities. Our objective is to review the spact of comorbidities on treatment choices for patients with COPD, especially with repard to the risks and benefits of inhaled nedications including long-acting betaagonists (LABA) and long-acting muscarinic antagonist (LAMA) and with a special focus on inholed controsteroids (ICS).

MULTIMORBIDITY IN COPD may be associated with an increased risk of Patients with COPD typically present with multiple comorbid conditions which require COPD.¹ An additional challenge is that case of emergent pneumonia. concomitant conditions, such as asthma or bronchiectasis, can be overlooked because signs and symptoms may overlap with those PATIENT WITH COPD associated with COPD. Over 85% of adult patients with COPD will have at least one provide logistic of disign selevance. half of them have three or more.1.2 The prevalence of comorbidities increases with worsening COPD severity in both men and women and women appear to have a greater susceptibility to asthma, osteoporosis, anxiety and depression but appear less likely to have cardiovascular potients with multimorbidity. We would disease than men.24 Comorbidities often appear in clusters

which suggests common risk factors (smoking and inactivity are risk factors for both COPD and lung cancer), shared underlying pathobiological mechanisms faccelerated ageing is associated with both i review of COPD treatment with a focus on . Obstructive sleep opnoed

COPD and hypertension) and side effects the interface between symptoms of the of COPD treatment (development of comorbid diseases, treatment adherence and side effects of medication. For patients with COPD, multimorbidi is associated with a high level o MANAGING THE PATIENT polypharmacy and an increased risk for adverse drug reactions and interactions as According to the latest recommendations of well as an increased risk of hospitalisation the Global Initiative for Chronic Obstructive and premature death.^{1,5,10,14} Polypharm-Lung Disease (GOLD), bronchodilation acy is of particular concern when drugs ains the mainstay of treatment fo with potential for similar adverse reaction patients with stable COPD. Patients should are combined.15 be initiated on single or dual long-acting in general, multimorbidity should not bronchodilator therapy.[®] KCS/LABA can be delay or alter the treatment of COPD considered as an initial therapy for patients and comorbidities should be managed in GOLD D with blood eosinophil counts cording to usual standards; attention #300 cells/pl.⁸ However, as ICS treatment should be directed to ensure treatment

simplicity and to minimise polypharmacy. pneumonia, a risk-benefit evaluation in warranted for individual patients and COMORBIDITIES OF SPECIAL withdrawal of KCS must be considered in INTEREST

The management of patients with COPE and multimorbid conditions requires a MANAGING THE MULTIMORBID personalised approach. Primary care physicians should adopt systematic ways to The management of individual patients with monitor patients with COPD. The interface COPD and multimorbidity is often complex between symptoms of comorbid diseases requiring the simultaneous application and side effects of medication should also of several disease-specific treatment be considered with special attention paid to the following comorbidities: guidelines. These guidelines are rarely approach is of particular importance for Diabetes Pheumonia and tuberculosis encourage primary care physicians to · Atial Shellaton undertake regular (at least annual) Chronic pain (re)assessment and treatment adjustment Chronic kidney disease for patients with COPD. Emergence of Prostate disease Gastroesophageal reflu multimorbidity should be reported as a signal and call to action to undertake a . Anxiety and/or depression

Additional essential action points

- 1. Increase awareness of COPD multimorbidity and screen and monitor patients for the most common comorbidities
- 2. Ensure at least yearly patient (re)assessment and treatment adjustment in the primary care setting, including stopping of inappropriate medication. Don't forget lung cancer.
- 3. Review inhalation technique and adherence to medication
- 4. Empower multimorbid patients with COPD and caregivers to help them cope with potentially overwhelming amounts of information and associated depression and anxiety
- 5. Carefully evaluate the indication before initiating ICS treatment. With regard to ongoing ICS treatment, consider
 - Asthma: ICS treatment must be continued 0
 - Diabetes: reconsider if ICS treatment is needed; if ICS is continued, close follow up, glucose 0 monitoring and titration of antidiabetic treatment are required
 - Osteoporosis: reconsider if ICS treatment is needed; if ICS is continued, close follow up for 0 loss of bone mineral density and risk of fractures is required. Screening for osteopenia or osteoporosis is recommended in patients receiving high dose of ICS or low to medium dose ICS with frequent use of oral corticosteroids
 - Infections (pneumonia or tuberculosis): consider withdrawal of ICS and maximize bronchodilation 0
- 6. Closely monitor for cardiac rhythm disorders, including atrial fibrillation, when initiating patients on a LABA
- 7. Monitor for emergent urinary symptoms when initiating patients with chronic kidney or prostate disease on LAMA

Multimorbidity

Treatment considerations for the multimorbid patient with COPD

Comorbidity	COPD treatment-associated risks							
	ICS	LAMA						
Asthma	Recommended; LABA/ICS may be fir COPD and a history of asthma and a	Recommended in selected patients						
Pneumonia	Increased risk of pneumonia; consider withdrawal of ICS and maximize bronchodilation							
Osteoporosis/ fractures	Increased bone loss and fracture risk; of particular concern in women							
Diabetes and pre-diabetes	Associated with onset and progression of diabetes, especially at higher doses							
Bronchiectasis	Not indicated in patients with bacterial colonization or recurrent lower RTI							
Tuberculosis	Increased risk for TB, particularly at high doses							
Chronic kidney disease			Associated with urinary symptoms					
Prostate disease			Associated with urinary symptoms					
Atrial fibrillation		Associated with tachycardia and rhythm disturbances (in susceptible patients)						
Glaucoma	Associated with glaucoma and cataracts		Associated with cataracts if used with face mask					

COPD, chronic obstructive pulmonary disease; ICS, inhaled corticosteroid; LABA, long-acting beta-agonist; LAMA, long-acting muscarinic antagonist; RTI, respiratory tract infection; TB, tuberculosis.



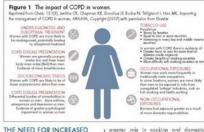
Women



DESKTOP HELPER

Improving care for women with COPD: guidance for primary care

The scope of global primary care includes not only disease management, but also prevention and early risk identification, finding those people in the community who need special attention, diagnosis, treatment and management. One such challenges is to identify sarly, diagnose, and treat women with chronic obstructive pulmonary disease (COPD). The main challenges of COPD in women and the reasons that they need special attention, are depicted in Figure 1.¹



THE NEED FOR INCREASED AWARENESS OF COPD IN WOMEN

dust, and from second-hand smoke." Prevention and early diagnosis strategies for women usually focus on early cancer detection, despite the fact that women are WOMEN HAVE DIFFERENT PHENOTYPES AND more likely to die from COPD than from breast and lung cancer combined.¹² Until SOCIOECONOMIC STATUS^{1,3} Globally, women with COPD are usually recently, COPD diagnosis in women has been neglected because it has been younger, have a lower BMI, less firsthand considered predominantly a disease of tobacco smoke exposure, greater risk of significant lung impairment, more severe men.¹³ However, because of an increase in smoking and/or an-going exposure to amptoms with the same level of exposure biomass smoke in many countries. COPD and a lower socioeconomic status (SES) prevalence now seems to be similar between which affects their access to care. They women and men. Indeed, data suggest that often disregard their symptoms and tend to women could be at areater risk of smokingbe more reluctant to seek care, therefore diagnosis is delayed and they often have induced lung function impairment, and could suffer from more severe symptoms for the more severe disease by the time they are same level of tobacco exposure than men.¹⁴ Identified. Therefore, we need to support Nonsmokers with COPD are also more initiatives and comparigns to increase awareness amongst individuals and Nonsmokers with COPD are also more communities. Women with low sociodisproportionate burden of exposure to risk factors such as biomass smoke, due to a economic status are particularly vulnerable

and may need special social suppor Women experience more symptoms (especially breathlessness), have a more impaired quality of life and suffer from more exacerbations than men.133 This means that women may benefit from closer monitoring of their exacerbation risk, symptoms and quality of life. Primary care rolessionals need to be aware of these differences and use validated tools to assess breathlessness and impaired quality of life. Practical tools such as Medical Research Council (MRC) and modified Medical Research Council (mMRC) Breathlessness Scale, Clinical COPD Questionnaire (CCQ) and COPD Assessment Jest score (CAI)th hove been suggested for use in primary care. See the IPCRG COPD wellness assessment tools esktop helper for more information.* Asthma is more common in women,7 so esponsibilities, occupational exposure i

responsibilities, occupational exposure in specific induring in the generator was here and dust, and fram second-hand smoke." WOMEN HAVE DIFFERENT WOMEN HAVE DIFFERENT

DIFFERENT COMORBIDITIES: MORE DEPRESSION, ANXIETY AND OSTEOPOROSIS^{1,3}

Wanne are mare likely to suffer from depression and anskey than men. This is important as anxiety influences benchlassens, and depression and/ar anxiety are strong determinants of quality of life. A properi dagrapsis exables the depression and/ar anxiety to be depression and/ar anxiety to MKA4 and MKA9 have been taxed and validated in primary care. Ossoparasi, which may be a side effect of high daw inhigh and a side effect of high daw inhigh and be a side effect of high daw inhigh and be one prevent in twomen than b-

Some of the validated questionnaires commonly used in primary care

mMRC http://goldcopd.org

- MRC https://www.mrc.ac.uk/research/facilities-and-resources-for-researchers/mrc-scales/ mrc-dyspnoea-scale-mrc-breathlessness-scale/
- CCQ http://ccq.nl/
- CAT http://www.catestonline.org/
- PHQ4 http://gihep.com/phq4/
- PHQ9 https://patient.info/doctor/patient-health-questionnaire-phq-9
- GAD7 https://patient.info/doctor/generalised-anxiety-disorder-assessment-gad-7

Figure 1 The impact of COPD in women.

UNDER-DIAGNOSIS AND

SUBOPTIMAL TREATMENT

Women are generally younger,

body mass index (BMI) than men.

Evidence of more breathlessness

SOCIOECONOMIC STATUS

Women with COPD are likely to be of

lower socioeconomic status than men

COPD DISEASE PRESENTATION

Differential burden of comorbidities in

osteoporosis and depression vs men.

women vs men. More asthma,

impairment in women vs men

Evidence of greater psychological

smoke less and have lower

to suboptimal treatment

Women with COPD are more likely to

be misdiagnosed, potentially leading

COPD DISEASE PRESENTATION

Reprinted from Chest, 151(3), Jenkins CR, Chapman KR, Donohue JF, Roche N, Tsiligianni I, Han MK. Improving the management of COPD in women, 686-696, Copyright (2017) with permission from Elsevier

TOBACCO USE

- Prevalence:
- Varies by location
- Equal to men in some countries
- Increasing in many low and middle income countries
- In women with COPD there is evidence of:
- Greater harm vs men for same level of
- tobacco smoke exposure
- Greater benefits of smoking cessation
 More difficulty with smoking cessation vs men

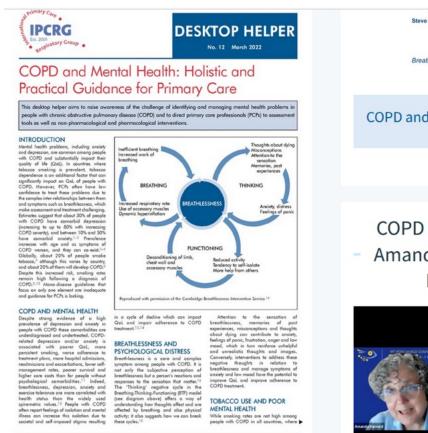
OCCUPATIONAL EXPOSURES

Women now work more frequently in traditionally male occupations. In some locations, women are more likely than men to be exposed to risks from unregulated 'cottage' industries, such as fish smoking and textile working

NON-OCCUPATIONAL EXPOSURES

Biomass fuel exposure greater as a result of more domestic responsibilities

COPD and mental health



Click on image to download the English version of the pdf.

Steve Holmes, Nazim Uzzaman and Oscar Flores-Flores (reviewers Breathing and feeling well through universal access to right care 0.080 **COPD** and Mental Health Slide set **COPD** and Mental Health Film Amanda Barnard interviewing Ioanna Tsiligianni З $\overline{\mathbf{A}}$ 13:08 •) 📼 🖪 🏟 💥 ۷

With special thanks to Anna Spathis (contributor) and

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

Many tools have been used in research settings, but in clinical practice PCPs are familiar with these easy-to-use tools:

 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 anxiety 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:

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

2

3

depression

4. Feeling down, depressed or hopeless 0

Categories of psychological distress based on total score:

• None: 0-2

- 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 score of 10 The GAD7 is also available in multiple languages.

These tools may be most useful in screening for depression and anxiety and in clarifying a suspected diagnosis.



DESKTOP HELPER

No. 11 January 2021 First edition

Remote respiratory consultations

INTRODUCTION

Remote consultations have become a normal, and in some regions, the only, method of contact for routine visits for respiratory conditions during the COVID-19 pandemic. This has arisen to protect both patients and healthcare professionals. Our expectation is that this situation will influence future provision: new "desire lines" have been created and we anticipate both face to face and remote consultations will become a normal part of the model of respiratory care globally. Questions remain about the balance, how to protect patient choice, clinician and patient safety and how to reduce inequity. This desktop helper provides some answers. Policy implications are described separately.

WHAT, WHERE, WHEN?

Remote respiratory consultation is any consultation without physical contact between the HCP and the patient, for example via videocall, telephone or web-based devices. It may also include consultations where patients are in a separate room and communication is via a telephone or intercom for viral infection control.

Telephone consultations have been a common feature of primary care (typically not reimbursed), usually accompanied by face to face later, the use of video consultation was previously rare but has accelerated during the COVID-19 pandemic.

Primary care relies on developing close, continuous relationships with patients, using talk, eye contact and touch; where the way the patient behaves, walks and coughs drives the diagnosis. These and "doorknob"/ secondary agenda moments can be hard to replicate remotely. In addition to patient choice, sustainability may be a challenge.

Use remote respiratory consultations for:

- Routine reviews
- Medication review, including polypharmacy
- Inhaler technique training and evaluation (single or group)
- Trigge of known patient with new onset breathlessness
- Education and support (individual or group) Pulmonary rehabilitation (individual or
- group)

HCPs report online consultation fatigue and cognitive stress as well as a loss of connection, satisfaction and identity when the rituals of face to face contacts are lost.¹ But remote consultations reduce travel, improving the carbon footprint.

Routine management & review

This is the best opportunity for remote consultations, with appropriate preparation by both HCPs and patients. However, consider:²⁻⁵

Suggests remote consultation:

 Patient preference ea neutral location Their comfort with technology, e.g. apps for monitoring; note-taking; record-keeping Access to smartphone or webcam Travel or parking difficulties, financial issues Value of involving family living apart from patient

Opportunity to gain insight into home situation

- Has equipment for observations: O2 saturation, temperature, blood pressure, peak flow
- Where face to face puts individual at risk

Suggests face to face:

- · Preference for the traditional approach
- Complex needs Hearing or sight problems Low digital literacy
- · No access to internet · Low trust for accuracy, safety or confidentiality of remote consultation Lack of privacy at home

Be conscious of how the community might perceive any variation in approach between patients. Avoid increasing inequity for those who cannot use or afford apps or other home-based technology

Multidisciplinary consultations

Patients with multiple comorbidities may benefit from a joint remote consultation with their primary HCP and other specialists. However, be mindful that speaking with several people at the same time remotely can be overwhelming. Check understanding during the call, or in a follow-up call.

Telephone triage6,7

This can be used to decide which patients

is currently limited evidence on value beyond infection control. If a patient reports any red flag symptoms during a remote consultation, conduct a usual urgent review either face to face or via video, or direct them to emergency care.8

Assessment of exacerbations

If a patient is already under the care of a community respiratory service and is wellknown to you, assessment of new onset breathlessness and decisions about the diagnosis, whether to escalate treatment and action may be possible remotely even using the telephone alone. Provide self-management tips: check these are understood.

Diaanosis

IPCRG colleagues advise remote consultations for diganosis are only appropriate when the need for infection control is paramount. They may be sufficient to assess probability of diagnosis and inform a trial of treatment alongside mitigation of any risk factors.9 Video offers the closest match to a face-toface consultation that employs looking and listening. Include a structured clinical assessment with a focus on meticulous history taking. If the patient has a peak flow meter, diaries can be useful. Questionnaires may help. Defer referral for additional testing such as spirometry (if this is available safely), chest X-ray or computed tomography but follow up later if circumstances allow. Asthma is a variable disease therefore several consultations will probably be needed to confirm the diagnosis and perhaps with more than one HCP if additional tests are needed. Communicate this to the patient in terms of probability, explaining the diagnosis has been reached by their clinical team who 'suspect that' it is, for example, asthma. Help your patient navigate to approved information and ensure they are clear what to do if their symptoms do not improve or worsen. Be sure to spend time on your patient's understanding of the situation.

Group consultations

Effective aroup and supportive consultations can be carried out remotely and offer the need face to face contact. However, there i opportunity to gain from several experts in >

I one session. They may help the patient feel in the epicentre of care, and also give them confidence to ask more questions. This

may spark support between the patients themselves, facilitated and auided by the HCP

PROVIDING THE REMOTE RESPIRATORY CONSULTATION

Prepare well: use checklists (green boxes). Follow a structured approach, noting types of talk (Figure 1), and need for "tidving up" after the consultation e.g. email or messaging with links to further information. Consider that the consultation may take longer than a face to face consultation when you might talk with the patient while simultaneously taking status.

- Hailie[™] (free): medication monitoring for asthma and COPD
- technology to track PEF

Am I aware of this patient's needs? Can I access their medical history?

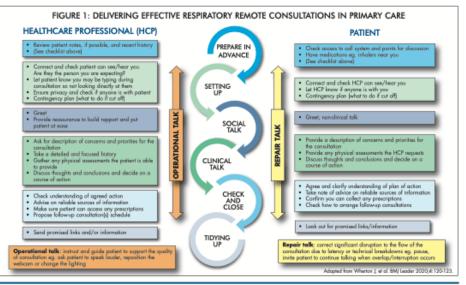
- Do I know the patient's goals?
- What is their physical, smoking and mental health status? · Do they have access to a phone, smartphone, tablet or
- Should I be expecting any questionnaire results or peak
 - flow diary? Do they have access to respiratory function testing
- equipment® Can they use it correctly?

Do I need to see them – if so, is a video-consultation possible?

Is the family/home condition supportive?

Useful tests that can be done remotely*

- Vital signs temperature, pulse and respiratory rate https://www.youtube.com/watch?v=Y/CWTqKilhQ
- Peak flow test https://www.ashma.org.uk/advice/manage-your-ashma/peak-flow/
- 1 minute Sit to stond
- Inhaler technique https://www.asthma.org.uk/advice/inhalervideos/
- Pulse aximetry https://www.youtube.com/watch?v=YCWTaKilbQ
- Breathlessness questionnaires MRC Breathlessness Scale www.pcrs.uk.org/mrc.dyspnoeoscale Modified MRC https://academic.oup.com/accmed/article/67/6/496/4095219
- COPD questionnaires - COPD Assessment Test - https://www.catestonline.org/ - Clinical COPD Questionnaire (CCQ) - www.cca.nl
- Asthma questionnaires Asthma Control Test https://www.asthmacontroltest.com
- CARAT https://core.ac.uk/download/pdl/62692897.pdl
 RCP 3 quasions https://cks.nice.org.uk/topics/asthma/management/fallow-up/#the-royal-college-of-physicians-3
- See IPCRG guide to tools here: asthma https://www.ipcrg.org/resources/search-resources/user-guide-to-asthma-controll-tools-2016 and COPD https://www.ipcrg.org/sites/upcrg/files/content/atachments/2019-10-21/ipcrg.user_guide_b_copd/withmss.tools.pdf
- * Links are to some open source videos and instructions note none were designed specifically for remote consultations



References: 1 Hyman P. JAWA Intern Med. 2020;180(11):1417–1418. 2.Mold E, et al. JWR Med Inform 2019;7:e13042. 3. Chiman MA, et al. BAJ Global Health 2019;4:e001629. 4. Thiyagarajan A, et al. BJOP Open 2020; 6:bgpopen/20X101020: 5: Iyengar K, et al. Clin Ren Rev 2020; 14: 797-799. 6:McKinstry B, et al. BNJ 2017;358;4345. 7: Newboold J, et al. BNJ 2017;358;4197. 8: Generically T, et al. BNJ 2020.358 m1182. 9. Beaney T. et al. BM 2020.369 m2092

Authors: Sila Williams (International Primary Care Respiratory Group, Londor), Taxory Lonergan (International Primary Care Respiratory Group, Londor) supported by an expert panel of dividents and patients Reviewers: Joseph Wherton (University of Oxford, Oxford, UR), Sundeep Solvi PURE Foundation, Pane, India)

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https://www.ipcrg.org/sites/ipcrg/files/content/attachments/ 2021-06-04/IPCRG DTH11 Remote Consultations.pdf

Checklist for HCPs (some could be done by trained Checklist for patients

- Have I completed any tests, diary or questionnaires my HCP has sent*?
- Have I prepared a list of questions for my HCP? Am I in a quiet and private place?
- · Which symptoms are bothering me most at the moment
- Do I have my medications to hand, including my inhaler[s]?
- Do I have a pen and paper to hand to make
- Do I have my classes with me lif I need them!?
- - during the consultation
- "You may prefer to complete these with your HCP

observations or evaluating their overall health

SaniQ (Germany; paid for)

Smart Peak Flow (free): Smart sensor

AsthmaTuner (Swedish and English)

MASK Air (for allergic rhinits)

App-based technology: examples MyHealth (UK; paid for) ea myCOPD and myASTHMA.

PR

DESKTOP HELPER No. 7 July 2017 Pulmonary Rehabilitation in the community

"That is an important decision, well done, I will now refer you.," either

"... to the Palmonary Rehabilitation programme" or "... to see an expe

you change your mind and I will ask again when we next meet. It is a great opportunity to meet others with a similar experience, to learn to control

your breathlessness and to reduce the impact of your breathlessness on

your life." Provide information and education about their condition and how they

GP referral

to the person the

1. Know the pathway and how to refer. Advocate for inclusive referra criteria and apply them. 2. Limit "nandoffs" between clinicians: e.g. refer to an expert to assess breathieseness or refer intertiy to a PR pregramme. 3. Take a systematic approach to assessment of breathieseness: MRC

Clarify the payment - known into will pay and here to get their commitment. PM is small bias paid sea a section.
 Andrighter and physical part of the paid sea a section.
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accordingly. 11. Plan for drop-outs and allow re-entry into the programme.

Has trained staff with expertise in chronic lung disease

f there is a choice or you have the authority to influence provision, select

mas trained start work expects an other starting devices.
 Tallions the programment to the dividual's specific physical, social, cognitive and prochological needs.
 Offers on the proof personal addres on breathing techniques, and the prychological management of fear of breathiestness.
 Prescribes and adjusts exercises unit (PTTT pencified and adjusts)

What marks out a good programme?

a service that

breathlessness scale; algorithm 4. Clarify the payment - know who will pay and how to get their

benefits of PR Ongoing Programme Person does not complete the

GP does not believe in or communicate

Assessment

Person does not present for their assessment

Start of Programme Person does not tum up to begin their PR

Your role in optimising use of PR: planning

Highlighted examples at www.ipcrg.org/PR As a referrer you can contribute to getting improved outcomes an programme efficiency because there can be obstacles?

can best live with and manage their problems and medications e.g. Living Weil and IPCRG. This will be reinforced in the programme.

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

What is the essence of Pulmonary Rehabilitation?

Writes to the cooled of a "dataset of the international operations are being to the cooled of the analysis of the cooled of the analysis of the cooled of th we tail care. PR has also been shown to reduce the use of expensive ervices such as hospital inpatient care. It can be delivered safely in the community, outside of hospital. Despite its proven clinical and costeffectiveness, PR is widely underused.¹²

Who is PR for?

PR is for adults of all ages who are functionally limited by their breathiessness despite current management.

Why is it important?

IPCRG

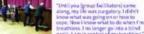
Why is it important? People with chronic targ conditions like CDPD become breathless with Ittle exercise and this can be very highening for them and their families carcers. As a excit, begin any and activities which makes them breathless, leading to physical deconditioning, denotive con-breathless, leading to be physical deconditioning denotive con-breathless people to undentiand and healthcare professionals to comment. COMPLEX.

"Breathlessness whilst moving around is NORMAL," "It is not harmful or dangerous to feel short of breath whilst maving."



This has given me a new lease of life. I go out again. You can ombine having (a lung condition) with living a normal life. I no longer feel 50 years old, I feel 20 again."

"When you learn to control our breathing, you can lea ow to exercise proper



reathless. I no longer go into a blind sanic. I am in control of my breathing." four role in optimising acceptance and use of PR: consultation: see the examples at www.ipcrg.org/PR

ASK about breathlessness "How has breathlessness changed your life?" "What troubles you most about being breathless?" Use a Breathlessness

In the transmission spect more assumed to engineering the transmission of the second s

to them will depend on what support is available and accessible. But every patient can be congratulated and informed about the next step:

programme of prescribed exercises preferably face-to-face but possibly structured home-based with telephone or internet support, and flexible educational approaches.⁴ We have used our network's experience to offer guidance on how they do it.

The basic elements can be relatively easy to set up:

- 1. Location: accessible. Assessment sites and group classes can be held in different locations. If transport is unavailable, consider homebased. Spread of locations may increase uptake.
- 2. Facilities: a. For assessment: space for initial walk test. b. For programme: aim for a space for groups of 6 or more, available for a minimum of 1.5 hours twice a week (1 hour exercise, 30 mins education) for a minimum of 6 weeks. Replicate normal life as far as possible e.g. air-conditioning is not necessary; run programmes outdoors. Non-healthcare environments are acceptable. Consider including induction in a facility participants might use afterwards.
- 3. Timing: should be flexible based on the needs of the participants to ensure maximum participation. Allow a rest day between exercise classes.
- 4. Equipment: can be varied and low-tech as long as it delivers aerobic and strength training e.g. walking aids, dumbbells, bottles with sand, resistance bands, ankle weights; a phone or clickers for timing and to count; printed scoring systems for perceived difficulty of exercise, self-recording sheets and diaries for home sessions. Add pulse oximeters for assessment. For the education sessions: inhalers and inhaler technique training devices.
- 5. Referral and feedback processes: negotiate this locally and aim for as many referral sources as possible. Write down the referral process and educate referrers about who, how and when to refer individuals (include current smokers and people using portable oxygen). Request referrer's direct phone number/email to enable easy communication especially about attendance and post PR performance.
- Templates and tools: have simple templates and tools to support the assessment, prescription and progression of exercise and education for patients. More here
- 7. Staff: use trained, knowledgeable staff e.g. physical therapist, nurse specialist, family physician. There is no right answer to the skillmix required to assess, deliver and support ongoing rehabilitation safely. It will depend on the local context and standards. Aim to create a team who can travel to different locations.

Importance of Exercise

The prescribed exercise programme must be personalised to gain benefit from the programme.

Exercise programmes should be designed according to the FITT principle and be as specific as a drug prescription:

Frequency (dose) e.g. minimum 6 weeks; aerobic exercise 5 days a week: 2 in a PR programme, 3 at home

Intensity (dose): use the initial test for endurance (minimum 60% VO₂ max) supported by a perceived exertion scale and repetitions for strength (e.g. 10 rep max, or 50-80% of 1 Rep max or OMNI) e.g. 3 x 10 with a rest between sets

Time (duration): Aim for 30 minutes of continuous aerobic exercise (this doesn't include warm up and cool down). If 30 mins is not possible aim to accumulate 30 mins and try to reduce rests.

Type (modality) e.g. aerobic: walking or cycling; strength: upper and lower limb exercises with weights (e.g. step-ups, sit to stand, biceps curls). Consider inclusion of flexibility, stretching and balance exercises as people with COPD are at risk of fracture due to osteoporosis and falls.

Delivering the programme

- Create a positive, fun, supportive environment.
- Exercise should be progressed weekly aiming for 5 sessions per week of 30 mins.
- Home exercise should be prescribed and monitored. The home programme should be based on the centre-based model of delivery.

Education: examples at www.ipcrg.org/PR

Teach breathing control techniques to be used during and after exercise. Offer psychological support to enhance coping (e.g. with fear of breathlessness, illness exacerbations, adjustment to lifestyle and identify changes) and to address barriers to adherence and completion, e.g. Cambridge model. Also include: What is the condition and its cause(s): how to protect your lungs: smoking cessation and avoiding indoor biomass smoke, the role of physical activity; goal setting; relaxation; diet and nutrition; medicines optimisation; exacerbation plans; communication with the health team; advanced care and end of life; relapse prevention and maintaining changes.

A Prescription for Success: examples www.ipcrg.org/PR

Run 6-week programme with 2 sessions a week. Groups tend to be for 6-

IPCRG is regularly asked by primary care clinicians to define good quality care. We take the view that primary care is person-centred, and therefore the best way to define quality is from the perspective of the person at risk of, or with the condition. From our regular conversations with expert patients and clinicians we have summarised what good quality care should look like from a patient perspective and how can clinicians provide that in 10 person-centred statements. These are divided into five areas: Prevention, Diagnosis and communication about the diagnosis, Management, Review and Referral. Our vision is that clinical teams will use them to benchmark their practice and potentially identify an area for improvement. Our own programme of work is steered by these statements. We are currently defining the competencies required to deliver them and the teaching methods and tools to enable deliverv.



BPCRG work localy be calleborate global

People with COPD deserve

IPCRG tools that we already offer are listed in blue italics.*

People with exposure to risk factors for COPD deserve...

Prevention

1 Information, advice on mitigation and public health protection including local and personal risk factors. https://www.ipcrg.org/howwebreathe and helping people quit.

People with COPD deserve...

Diagnosis and communication about the diagnosis

2 A primary care service that is competent and confident in diagnosing COPD including timely, accurate and objective tests, and information about COPD, its causes, the likely timeline, how it can be managed but not cured, and the consequences of decisions about treatment and self-management. <u>Desktop helper 14 (spirometry), desktop helper on earlier diagnosis, COPD Right Care wheel.</u>

Management

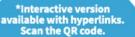
- 3 A primary care team competent to classify the stage and type of their link to disease over time using spirometry, quality of life and exacerbation history and competent to assess other morbidities.
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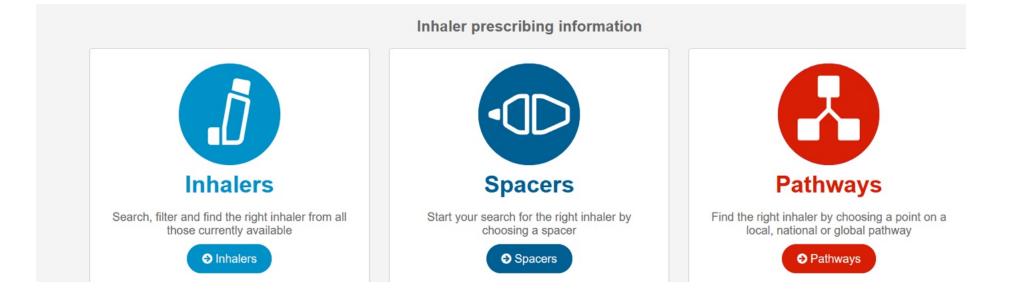
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Right Breathe





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People with COPD deserve...

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COPD Magazine: edition 1 www.ipcrg.org/copdmagazine

- Now in English, Spanish, French, German, Italian, Portuguese, Bengali, Georgian
- Tested at Scientific Meeting Conversation Café Munich May 2023
- Further focus groups in UK and Netherlands



IPCRG is proud to present a new online magazine for people with COPD to support them to self manage their breathing and physical activity. It embeds links to videos our expert team has curated to educate, motivate and inspire.

We encourage clinicians to recommend it to anyone diagnosed with COPD.

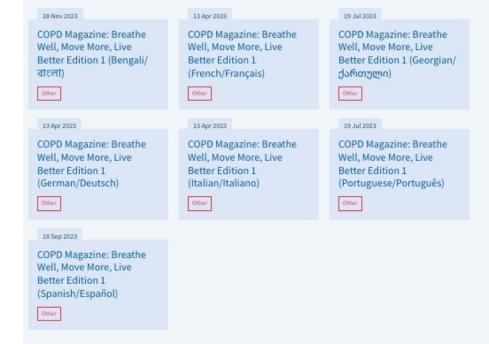
IPCRG hosted an international Steering Group of practising and academic physiotherapists with a special interest in COPD and a representative of European Lung Foundation. They developed the search strategy to guide Teesside University, UK, that IPCRG commissioned to undertake the searches. The Steering Group also reviewed all the resources found by the search team to select those that they judged to be most clinically accurate and appropriate for a global audience of people with COPD.

The text was co-created by the Steering Group and IPCRG. Images were sourced by IPCRG from its network.

Please share this as widely as you can and recommend it to as many people with COPD as you can to help them Breathe well, move more and live better. If you are interested in translating this resource, please contact us.

Click here to view the magazine.

Edition 1 Translations



COPD Magazine: video diaries



- Response to feedback from edition 1 users
 - more videos of people with COPD talking about managing their condition everyday
- Participants will record a 10-minute video every day for 14 days talking unprompted about their condition for 5 minutes and responding to a prompt each day for 5 minutes, on topics including food, tobacco & alcohol, mood, travel, physical activity, sleep, use of technology, sex and relationships, everyday tasks, exacerbations, medicines
- Recruiters approached in 17 countries
- Recording planned for Jan-Feb 2024
- Videos will be analysed by Teesside University been approved by Ethics.
- Also used as content for editions 2+3

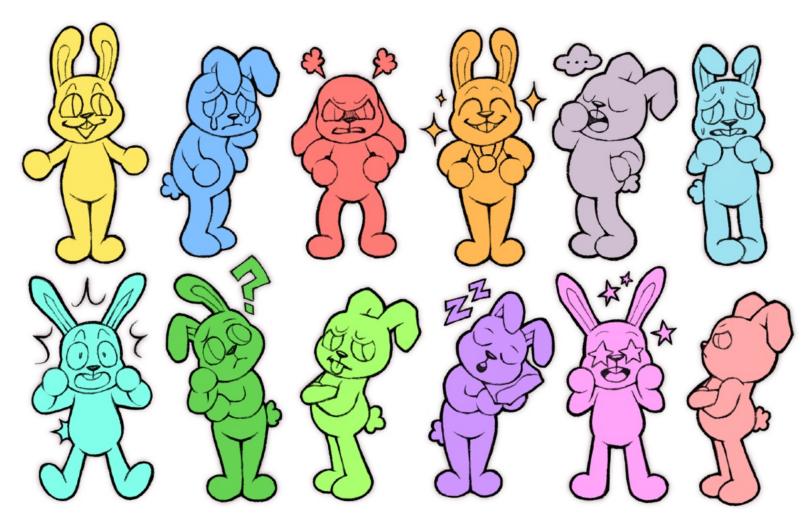
COPD Magazine: mood and mental health emojis



- Edition 2: address need for people with COPD to regularly assess their emotional wellbeing.
 - Feedback has suggested its easier to point to something rather than think about this unprompted
- IPCRG produced a brief based on the literature on taxonomy of emotions and identified selection criteria: readability, consistency and layout, ease of distinction, global health applicability and adherence to evidence base
- Reviewed drafts produced by class of cartooning MA students at Teesside University supervised by Julian Lawrence, providing 3 rounds of feedback to develop their designs

COPD Magazine: mood and mental health emojis

- Rabbit cartoons selected due to positive feedback from users and global primary care contacts
- Ears and tails allow clear presentation of wide range of emotions
- Currently editing to align with taxonomy of emotions literature
- Process will create full set of 25 emotions for use in magazine and to be used in primary care.



COPD Magazine: edition 2



- 1. Digital literacy guide (based on feedback)
- 2. Edition 1 reflections, video diaries
- **3. Mood and mental health**: understanding emotions and breathlessness; identifying emotions; identifying depression and anxiety; coping and acceptance
- **4. Energy, breathlessness and fatigue**; energy conservation/pacing; physical activity and energy expansion
- 5. Sleep and COPD: positioning for sleep; sleep hygiene; focus on quality of sleep

6. Sex life

- **7. Nutrition**: relationship with COPD; food as fuel; identifying malnutrition and getting the right nutrition; what practically stops you from eating well (e.g. cost, effort, availability, difficulty eating)
- 8. Glossary of terms

COPD Magazine: edition 3

P

- 1. Relationship with healthcare system
- 2. What can life look like with well-managed COPD?
- 3. Tobacco dependence
- 4. Staying safe and taking your medicines
- 5. Recognising flare-ups 'bad day' or exacerbation? Key differences.
- 6. Action plans
- 7. When to seek medical help and how to explain your condition
- 8. Checklist for GP appointments and going into/out of hospital
- 9. Recovering from an exacerbation how to get 'back on track'

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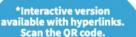
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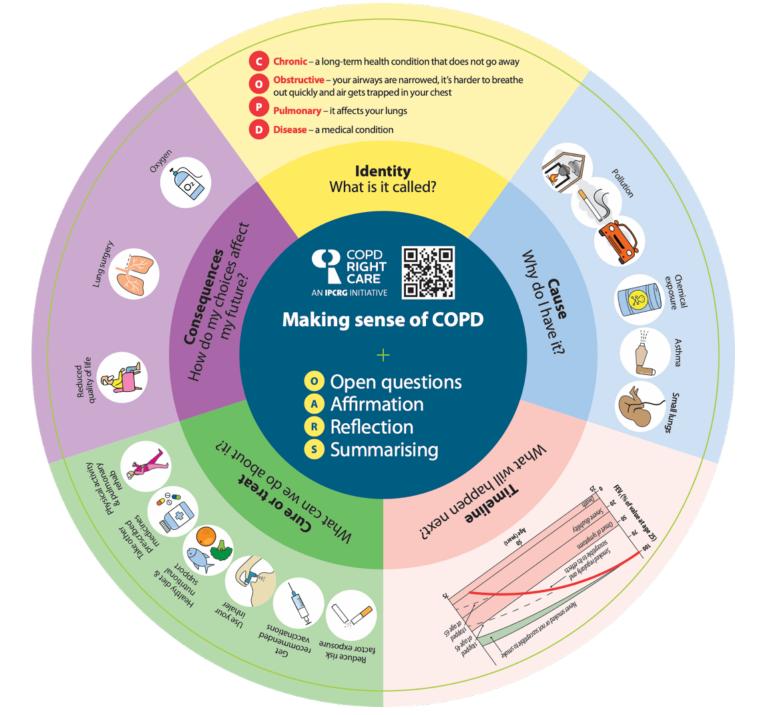
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People with COPD deserve

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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

Palliative approach



DESKTOP HELPER No. 3 April 2022

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.

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 potentially 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 concer and asteoporosis. Treatment must be based on appropriate evaluations and knowledge of THEIR LONG-TERM CARE the person's functional status and personal goals at each stage of COPD stabilisation and progression (e.g. evaluated at least annually). the individual's current state by assessing which the level and the level

Figure 1: The high burden of COPD. International survey of people with COPD receiving maintenance therapy

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INCLUDING THE PREFERENCES OF THE PERSON WITH COPD IN

A crucial step in the longitudinal care that primary care can provide is understanding to open important discussions. People living with COPD remind us - "If you ask us questions then USTEN to our answers" (Table 1).

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.

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

LEARNING ABOUT COMMUNITY

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

- 1. My healthcare team needs to know who I am and what my functional status is and what my goals are. Without this baseline, many of the conservations take too long or are meaningless.
- 2. Ask me "What is a usual day's activity like for you? What have you had to give up or modify over the last few years? What do you not want? e.g. I never want to go to a nursing home."
- 3. 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.
- 4. 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 people 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

Essential questions to be asked at each visit:

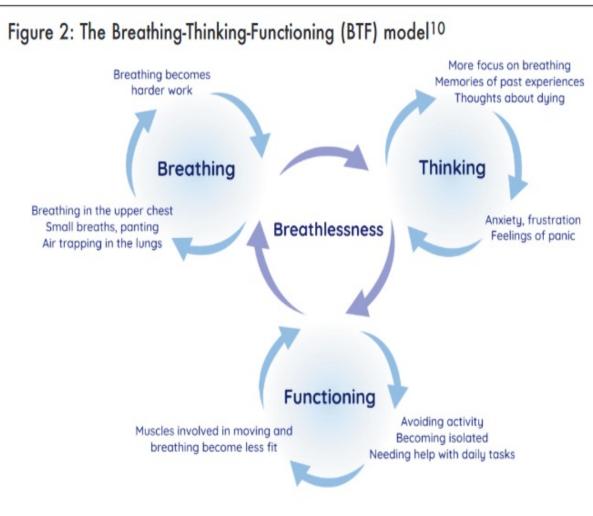
- What brings you here/to this visit?
- Any special concerns from you, your family or your carer?

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 you?

See our online Supplementary material S1 for additional questions to help with your conversations with individuals and their families. Listen to author and surgeon Atul Gawande discuss the importance of these four questions to understand people's priorities at https://www.bbc.co.uk/programmes/b04tjdlj

Table 3: Non-pharmacological interventions to address breathlessness and exercise capacity		
Intervention	Purpose/aim	
Pulmonary rehabilitation	Can relieve breathlessness and fatigue, improves emotional state and enhances person's sense of control over their condition – moderately large and clinically significant improvements	
Facial cooling with a fan or cool flannel. See this video: https://www.youtu be.com/watch?v= y5tBC5R8DYs	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 vagal response A cool flannel is an alternative	
Mindfulness/ meditation	20-minute mindful breathing reduces breathlessness in lung disease, and anxiety/depression in advanced disease; enhances non-evaluative attention and may increase self-efficacy	
Relaxation techniques	Some evidence can help anxiety, breathlessness and fatigue in COPD. Guided imagery ('thinking of a nice place'), progressive muscular relaxation and counting are most acceptable	
Pacing	May help breathlessness as a component of an evidence-based complex intervention	
Walking aids	Can improve exercise capacity	
Cognitive behavioural therapy	Problem-solving approach that challenges unhelpful thoughts/ behaviours; reduces anxiety in COPD in short term; increases pulmonary rehabilitation attendance	
Breathing techniques	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 complex interventions for breathlessness	
Acupuncture/ pressure	Improves breathlessness in advanced disease and may reduce anxiety	
Inspiratory muscle training	Conflicting evidence for impact on breathlessness; people need to be carefully selected	



Reproduced with permission of the Cambridge Breathlessness Intervention Service.10 See: https://www.btf.phpc.cam.ac.uk/

Table 3: Interventions to address breathlessness

Intervention	Purpose/aim	Supporting evidence
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Acupuncture/ pressure	Improves breathlessness in advanced disease and may reduce anxiety.	von Trott P, et al. J Pain Symptom Manage 2020;59: 327–338.e3.
Singing therapy	Most evidence suggest singing therapy can improve lung function; some evidence suggest it may improve anxiety and QoL; anecdotal evidence of value.	Gimenes Bonilha A, et al. Int J Chron Obstruct Pulmon Dis 2009;4:1–8. Lord VM, et al. BMC Pulm Med 2010;10:41. McNamara RJ, et al. Cochrane Database Syst Rev 2017; 12:CD012296.
Positive psychology giving sense of control/ confidence	Not evidence-based. However, holistic breathlessness services reduce anxiety/depression and use positive psychology, improving self-efficacy.	Brighton LJ, et al. Thorax 2019;74:270–81. Lovell N, et al. J Pain Symptom Manage 2019;57: 140–155.e2.
Social presence	Experimental evidence in healthy volunteers for social presence reducing breathless perception; patients describe	Herzog M, et al. Biol Psychol 2019;140:48–54.

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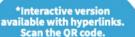
- 3 A primary care team competent to classify the stage and type of their link to disease over time using spirometry, quality of life and exacerbation history and competent to assess other morbidities.
- 4 Long term holistic management according to the guidelines including vaccination, counselling and treatment if they are tobacco dependent, pharmacological and non-pharmacological treatment and referal eg to pulmonary rehabilitation, end of life care. <u>Desktop</u> helpers 3 (supportive & palliative approach), 4 (quit smoking), 6 (ICS and ICS withdrawal), 7 (pulmonary rehabilitation), 8 (women & COPD), 10 (multi-morbidity) and 12 (mental health), www.ipcrg.org/copdwheel
- 5 To be offered appropriate inhaler(s) according to their physical and cognitive abilities and characteristics and appropriate inhaler technique training by a primary care professional who knows the Importance of eosinophil count and that bronchodilation is the basis of treatment. eg www.rightbreathe.com
- 6 Yearly flu vaccination, pneumococcal, Tdap, herpes zoster and COVID-19 vaccinations according to their history and national schedule.
- 7 To agree an individualised self-management plan including recognition of exacerbations, smoking cessation, breathing exercises, nutrition, and physical activity taking into consideration mental and physical health, health literacy and access to care. www.ipcrg.org/cog/magazine
- 8 To be asked in a culturally appropriate way about exacerbations, to receive reassurance and appropriate treatment and to be followed up to ensure they have adequate support.

Review

9 A structured assessment of their symptoms, wellbeing, inhalation technique, future risk and support needs at acceptable intervals with additional follow-up after an exacerbation or a change in management. <u>Desktop helper 3</u>.

When their COPD cannot be managed in their usual primary care

10 To have easy and timely access/referral to a primary or secondary health care professional who is skillful in COPD management whenever their COPD cannot be managed in their usual primary care.



RIGHT

PCRG work locally



People with COPD deserve

10. To have easy and timely access/referral to a primary or secondary health care professional who is skilful in COPD management whenever their COPD cannot be managed in their usual primary care.

PUBLICATIONS - EDITOR'S CHOICE

npj | primary care respiratory medicine

GOLD 2023: Highlights for Primary Care

npj Primary Care Respiratory Medicine volume 33, Article number: 28 (2023)

The Global Initiative for Chronic Obstructive Lung Disease (GOLD) has issued its 2023 annual report with significant updates compared with former versions. In this article, the authors summarise the most relevant changes for a Primary Care audience.

Statement agreed with WONCA Europe We call for governments and payers to:

5

Right incentives for primary care to practise population respiratory health

Negotiate and fund the right **incentives** for primary care to practise **population respiratory heath**: to go where the people in need are

Universal access to treatment and training

Fund **universal access** to good quality affordable and effective **vaccinations**, **inhaled medicines and tobacco dependence** treatment and training in **how to use them**

Primary care as population health educators

Endorse primary care as **population health educators** (e.g. about physical activity, nutrition, substance use and how to breathe well)

Primary care societies leveraging change

9

Endorse primary care societies that can leverage major clinician-led change working locally, collaborating globally

(e.g. implementation research)

Generation of real-life

Fund the generation of real-

respiratory guidelines that are

life evidence to feed

useful in primary care

evidence

Diagnosis of chronic respiratory diseases in primary care

Invest in primary care so that it can provide a timely, accurate and objective (e.g. using spirometry) **diagnosis** of chronic respiratory diseases such as COPD and asthma, tobacco dependence and exposure to indoor air pollution

Training and education for primary care by primary care

Prioritise practical respiratory **peer-led training and education** for primary care by primary care

Integrated care systems for respiratory health

Support the development of **integrated care** systems for respiratory health, involving patients, their families, multi-disciplinary health and social care and secondary care

Chronic respiratory diseases management in primary care

3

6

Invest in primary care to **manage** chronic respiratory disease, tobacco dependence and exposure to indoor air pollution applying 'right care' principles that include understanding what's right for the individual patient in their local context and removing administrative barriers (e.g. enable right to prescribe respiratory treatments in primary care)

COPD, chronic obstructive pulmonary disease



12th IPCRG

International Primary Care Respiratory Group World Conference





MEGARON ATHENS INTERNATIONAL CONFERNCE CENTRE (MAICC) www.ipcrg.org/ athens2024