



Η ΧΑΠ για τον γενικό ιατρό

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Αναπληρώτρια καθηγήτρια Γενικής Ιατρικής και Δημόσιας Υγείας

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IPCRG Past President

ΧΑΠ-COPD Right Care

GOLD 2023:

Ετερογενής αναπνευστική νόσος η οποία χαρακτηρίζεται από συμπτώματα δύσπνοιας, βήχα, απόχρεμψης και/ή παροξύνσεις.

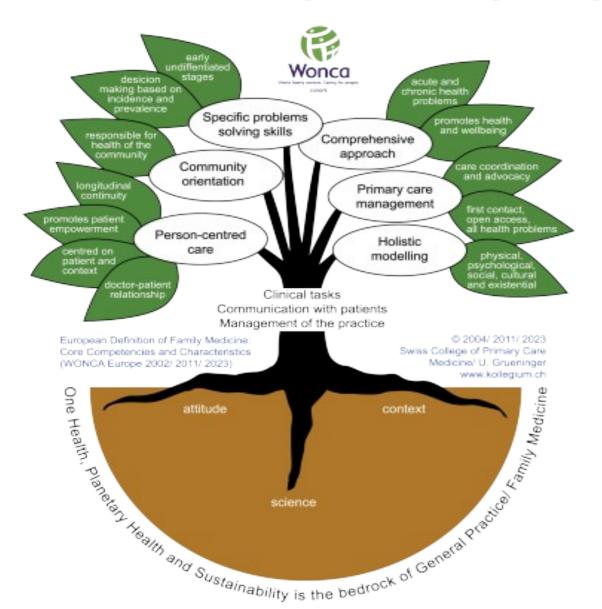
Προοδευτικά επιδεινούμενη απόφραξη Βρογχίτιδα-εμφύσημα

www.ipcrg.org/copdrightcare

COPD right care: 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

Social movement, personalisation, tools, education, facilitation etc

Εκπαίδευση και κατάρτιση



- Τα αναπνευστικά συμπτώματα αποτελούν το πιο συχνό αίτιο επίσκεψης στην πρωτοβάθμια φροντίδα υγείας
- ΠΦΥ: πρώτο σημείο επαφής
- Ανάγκη για διαχείριση κινδύνου, έγκαιρη διάγνωση, ολιστική προσέγγιση, πολυνοσηρότητα, κλπ
- Καλή πρακτική βασισμένη στην γνώση και εμπειρία













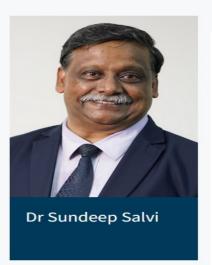












Variation in care that is not due to disease variation but provider variation between individuals, offices/clinics, regions and nations. The point of Right Care is to provide the practical advice and support to make it easiest to do the right thing, in your setting.

Τι μας ενέπνευσε?

1.Asthma Right Care



Episodic asthma care

Mitigation of chronic risk



Τι μας ενέπνευσε?

2. London Respiratory Network Value Pyramid



Telebealth
or chrone theorem
and characteristics

Trycle Therapy
57,000
E187,000/QALY

LABA
£8,000/QALY

Tiotropium
£7,000/QALY

Pulmonary Rehabilitation
£2,000-8,000/QALY

Stop Smoking Support with
pharmacotherapy £2,000/QALY

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

New

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 delivery.

COPD RIGHT CARE AN IPCRG INITIATIVE

IPCRG work locally collaborate globall

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

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

Prevention

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 helpers 3 (supportive & palliative approach)</u>, 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
- 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/copdmagazine
- 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. Desktop helper 3.

When their COPD cannot be managed in their usual primary care

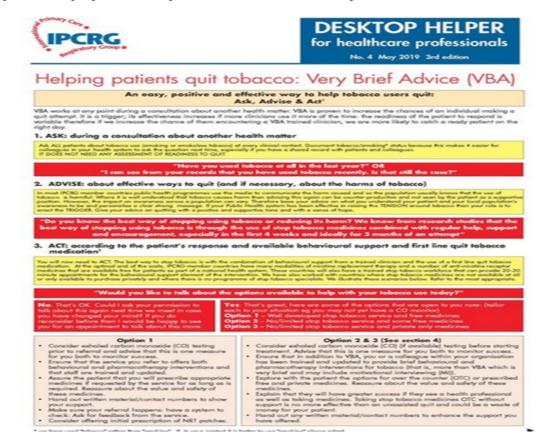
10 To have easy and timely access/referral to a primary or secondary health care professional who is skillful in COPD management whenever their COPD cannot be managed in their usual primary care. *Interactive version available with hyperlinks. Scan the QR code.



Τα άτομα με έκθεση σε παράγοντες κινδύνου για ΧΑΠ αξίζουν...Πρόληψη

• Πληροφορίες, συμβουλές για τον μετριασμό και την προστασία της δημόσιας υγείας, συμπεριλαμβανομένων και προσωπικών

παραγόντων κινδύνου.





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 trigger; 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

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 es 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 quit (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 guit 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 al 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?"

No: That's OK. Could I ask your permission to talk about this again next time we meet in case you have changed your mind? If you do econsider before then I would be happy to see you for an appointment to talk about this more.

Yes: That's great, here are some of the options that are open to you now: (tailor 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)

- 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 collegage 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
- 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

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

Notivational 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 guit 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

On a scale from 1 - 10 How important is it to you to stop tobacco where 0 is not at all important and 10 is the most important it can be? On a score of 0 – 10 where 0 is not confident at all and 10 is totally confident, how confident are you to try and stop tobacco? 10

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

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' clude stopping without help. "It sounds like you really want to try stopping tobacco (again). May I talk you through the stions that are available for us to help you (building on what worked for you last time)?".

"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 lime. What would need to happen to move this up to an 7?" 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 you in the past and you shill teel it's not the right limit but you to stop tobacco. We know that nicotine is more adacted than heroin...; even so you succeeded before for xx time." "What would need to happen to wove this up to a 4 or 5?" 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 breathlessness/COPD/asthmaj worse. If it would be helpful, I am happy to talk with you about what we could offer in the future, that we know works for patients like you, where tobacco has been and continues to be a major part of their lives, so you at least you know that we do have treatments that work."

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 measure.
- Encourage the person to imagine and communicate what they think might be the benefits of quitting; reflect back and summarise and tailor your offer
- You will 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 ashma 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
- . 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 quitting tobacco are often underdosed 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

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



Τα άτομα με ΧΑΠ αξίζουνέγκαιρη-σωστή διάγνωση και επικοινωνία

- Διάγνωση έγκαιρη, σωστή και αντικειμενική
- Επικοινωνία της διάγνωσης και εκπαίδευση ΕΥ, ασθενών
- Πως μπορεί να διαχειριστεί, συνέπειες αποφάσεων για θεραπεία φαρμακευτική ή μη, αυτοδιαχείρισης.





DESKTOP HELPER

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 for, conduct, evaluate and interpret spirometry and understand its role and limitations in the diagnosis and monitoring of respiratory disease.

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. 1-4 It is mandatory in diagnosing and monitoring (COPD), and important for aithma. cough. Spirometry is also helpful in the evaluation of the impact of some system diseases on the respiratory system and helps in determining personal risk before surgical

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 should be explained beforehand and a cision made by the prescribing physicia if the person should stop taking any tory medications prior to the test (see Table 2 for minimum timings). It may not be necessary to withhold medication if the purpose of the test is to determine whether with therapy in addition to their regular

Instruct the person not to smoke, wone or use a water pipe and abstain from any strenuous physical exercise for at least one intoxicants up to 8 hours before the test. Ask them to loosen any tight clothing. Spirometry must be conducted in tideally specific for spirometry, with the wheels or height adjustment. There must be station (if not already integrated with the test equipment). The spirometer should have a maximum error range of ±2.5% when tested with a 3L colibration syringe.

Preparing the person for spirometry

Not all people will be able to produce good

Table 1- Controlodications for spinometry

Any situation that puts the person's health at serious risk when making a significant

- Active or recent present/homs. Havin a pneumothorax in the past does not
- controlecto spinorete Unstable CV disease (e.g. angino, recen
- Brain, thoracic or abdominal are
- surgery is a cotorochi
- Recent chest or obviousled surror

- Recent relinal detachment or recent eye
- onsidered necessary to perform spi on a person with a trachecutors: they should be referred to a specialist clinic
- - correct sealing of the mouth around the mouthpiece (e.g. facial paralysis)
 - mouthoises

Situations in which minimal acceptable

quality management cannot be obtained

Installity to understand directions or

unwillingness to follow the directions

Not undentanding the manoeurre well

(e.g. children under 6 years old, menta

deterioration, some elderly people)

Poor physical state is as cachesial.

Presence of a teschoolomy. If it is

Table 2: Minimum time between taking certain drugs and undergoing spirometry.

Drug	Minimum allowable abatinence time (hours)
Salbutamol, terbutaline, ipratropium	
Formoterol, solmeterol	12
Indocateral, aladateral, vilanteral	24
Aclidinions	12.
Tiotropium, glycopyrronium, umeclidium	24
Short-octing theophylines	8
Sustained-release theophyllines	12
Chromones	24

quality spirometries, but the operator's competence can improve the quality of the

- . 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 back against its backrest and both feet flat on the ground, uncrossed. Advise

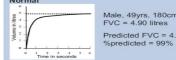
them to sit upright (avoid leaning forward) while blowing. Explain the procedure simply: "This is a

straightforward test but you will need to w my instructions closely. When I so 'inhale deeply and fully' clasp your teet! tightly sealed and your tangue out a the way then blast the air out as fast and hard as you can for as long as you can until your lungs are completely empty or I tell you to breathe in again. Then

A guide to interpreting spirometry

i) Normal spirometry

The Forced Vital Capacity (FVC) of the lung is the volume of air that can be forcibly expelled from the lung from maximum inspiration to maximum expiration. Normal



Male, 49yrs, 180cm FVC = 4 90 litres Predicted FVC = 4.95litres

Forced Expiratory Volume in 1 second = FEV₁. The FEV₁ is the volume of air that can be forcibly expelled from maximum inspiration in the first second. Normal

Obstructive: due to conditions in which the airways are



Female, 33yrs, 165cm $FEV_1 = 3.20$ litres

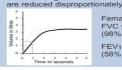
Predicted FEV₁ = 3.03litres %predicted = 105%

ii) Abnormal spirometry is divided into restrictive and obstructive ventilatory patterns

Restrictive: due to conditions in which the lung volume is reduced, eg fibrosing alveolitis, scoliosis. The FVC and FEV₁ are reduced proportionately.



Male. 49vrs. 180cm FVC = 2.00 litres (40% predicted) FEV₁ = 1.80 litres (45% predicted)



obstructed eg asthma or COPD. The FVC and FEV1 Female, 33yrs, 165cm FVC = 3.50 litres

> (98% predicted) FEV₁ = 1.8litres (58% predicted)

Severity of COPD: FEV1 as a %predicted may be used to classify the severity of COPD. National guidelines vary, but many use the levels of FEV1 <80%, <50%, or <30% predicted to arbitrarily define mild, moderate or severe disease.

iii) Forced expiratory ratio (FEV₁/FVC ratio, or FEV₁%)

The FEV1/FVC ratio is the FEV1 expressed as a percentage of the FVC (or VC if that is greater); je the proportion of the vital capacity exhaled in the first second. It distinguishes between a reduced FEV1 due to restricted lung volume and that due to obstruction. Obstruction is defined as an FEV₁/FVC ratio less than 70%



FVC = 2.00 litres (40% predicted) FEV₁ = 1.80 litres (45% predicted)

FEV₁/FVC ratio normal

FEV₁/FVC ratio = 90%

Restrictive ventilatory pattern FVC reduced <80% FEV₁ reduced

FEV₁ = 1.80 litres (58% predicted) FEV₁/FVC ratio = 51%

Obstructive ventilatory pattern

FVC normal or reduced FEV₁ reduced <80% FEV₁/FVC ratio reduced <70%

FVC = 3.50 litres (98% predicted)

iv) Flow volume loops

This is the same forced expiration converted electronically to illustrate the flow rate as the lung empties. The x axis represents volume - from full inspiration to full expiration: The y axis represents the flow rate. The shape of the flow volume loop depends on the mechanical properties of the lung and the shape can give important clues about the The dotted line is a normal curve COPD Asthma



Typically the curve is a comparatively smooth concave shape as the airway obstruction is relatively stable throughout expiration

Flow rate (L/s)

Typically the curve is angled as the damaged lungs in COPD collapse with forced expiration

Flow rate (L/s)

Typically the curve is a normal height, but very steep as the lung volume is decreased



DESKTOP HELPER

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?

COPD is a common global condition with considerable morbidity and mortality.¹ Underdiagnosis of COPD is a pensister nenhlem wouldwide and continues to be a major reason for the undertreatment of the condition despite the availability of effective non-pharmacotherapeutic and pharmaco therapeutic interventions.² The global prevalence of COPD is estimated to be 10.3%.7 The rates of underdiagnosis in low and middle-income countries may be particularly high, with some estimates suggesting underdiagnosis rates in excess of 90%,3

Undiagnosed, symptomatic COPD is associated with an increased risk for detrimental impact on quality of life (QoL). and even premature death.1,4-6 COPD

agnosis usually occurs only after significant lung function has already been last. By the their EPV: has often follen to ~50% of predicted, a level at which health status is substantially reduced. In addition, other consequences of COPD such as breathlessness, depression and arxiety, often cause people to be less active and less able o cope with the disease.1 The reasons for delayed diagnosis of COPD are numerous and complex including personal-, HCP and system-level factors that prevent the reporting, recognition or idea symptoms suggestive of COPD, or the availability of spirometry, essential to diagnose COPD (see the IPCRG Quick guide to spirometry at: https:// org.org/ DTH14).2 It has been comidered by some practitioners and public as a self-inflicted disease if the person has smoked tobacco and this has led to stigma, self-blame and

appreciates the fact that tobacco use is chronic dependency that often begins in childhood and is itself often underdiagnosed and undertreated. In addition, new scientific evidence has shown that there are many genetic and imental factors associated with reduced lung function, that vary, accumulate and interact over time, even before birth.7.3

CAN EARLIER INTERVENTION HELP?

Earlier intervention for symptomatic COPD can result in better quality of life (QoL).1 A wide body of research indicates/lifea diagnosis accompanied by earlier vention delays lung function decline, reduces symptom burden and improves QoL² To reduce the risk of exacerbations caused by respiratory infections ensure your patients receive vaccinations (i.e.



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

Barriers

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

Actionable Strategies

- people with symptoms



Patient behaviours

& beliefs

Physician behaviours & beliefs

- 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





constraints

- 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
- 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

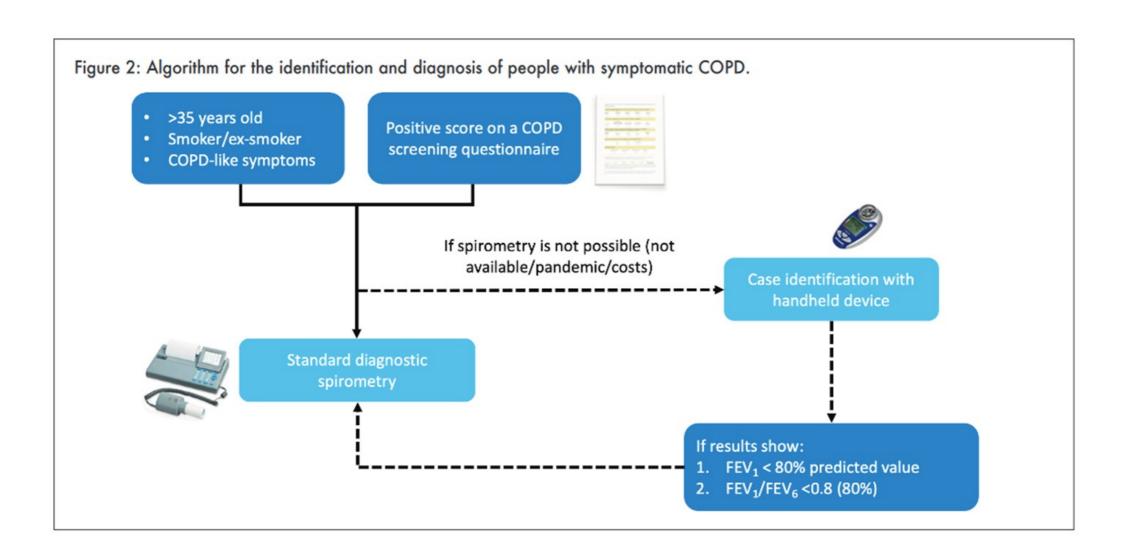
Development of clear local guidelines on how to proceed in

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/media/ 16
COPD Population Screener (COPD-PS) ²⁷	Internationally recognised and validated. Simple and quick to administer, 5 questions + age	https://www.copdfoundation.org /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/fi gure/The-CaPTUre-COPD- assessment-in-primary-care-to- identify-undiagnosed-respiratory- 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

LMIC, low- and middle-income countries; PEF, peak expiratory flow.

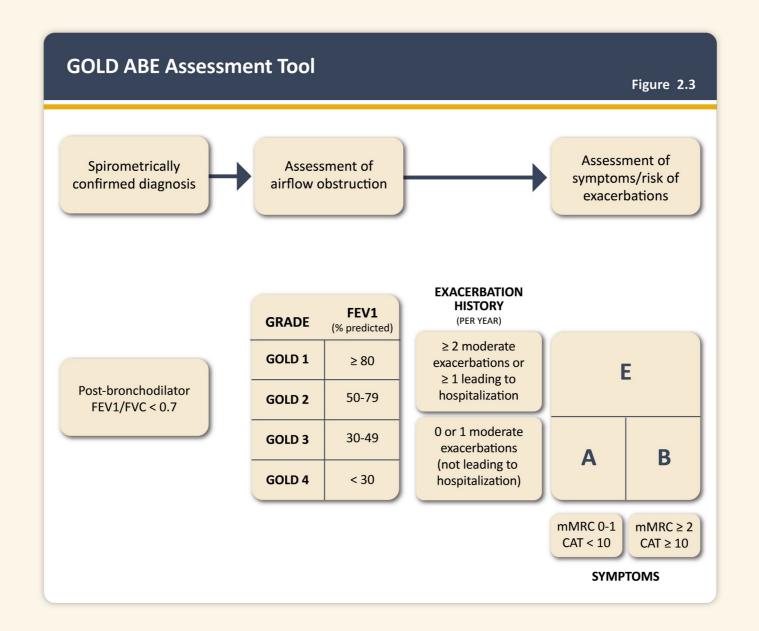
Αναγνώριση και διάγνωση ατόμων με συμπτωματική Χ.Α.Π.



Διαχείριση CAT-mMRC

		E	ВАӨМОЛОГІА	A	
Δεν βήχω ποτέ	0 1 2 3 4 5	Βήχω συνέχεια		Δύσπνοια μόνο στην εξαιρετικά κοπιώδη προσπάθεια	0
Δεν έχω καθόλου φλέγμα (βλέννα) στο στήθος	012345	Το στήθος μου είναι εντελώς γεμάτο με φλέγμα (βλέννα)		Δύσπνοια όταν ανεβαίνει βιαστικά σε ανηφόρα	1
Δεν αισθάνομαι καθόλου σφίξιμο στο στήθος	012345	Αισθάνομαι έντονο σφίξιμο στο στήθος		Βαδίζει πιο αργά από συνομηλίκους λόγω δύσπνοιας ή πρέπει να	
Δεν λαχανιάζω όταν περπατάω σε ανηφόρα ή όταν ανεβαίνω τις σκάλες ενός ορόφου	0 1 2 3 4 5	Λαχανιάζω πολύ όταν περπατάω σε ανηφόρα ή όταν ανεβαίνω τις σκάλες ενός ορόφου		σταματήσει να πάρει ανάσα όταν βαδίζει με τη δική του ταχύτητα	2
Δεν έχω κανένα περιορισμό όταν πραγματοποιώ οποιαδήποτε δραστηριότητα στο σπίτι	012345	Περιορίζομαι πολύ όταν πραγματοποιώ οποιαδήποτε δραστηριότητα στο σπίτι		Σταματά να πάρει ανάσα μετά από 100 μέτρα ή μετά λίγα λεπτά	3
Νιώθω αυτοπεποίθηση όταν βγαίνω από το σπίτι παρά την πνευμονική πάθησή μου	012345	Δεν νιώθω καθόλου αυτοπεποίθηση όταν βγαίνω από το σπίτι λόγω της πνευμονικής πάθησής μου		σε οριζόντιο έδαφος	
Κοιμάμαι ήρεμα	012345	Δεν κοιμάμαι ήρεμα λόγω της πνευμονικής πάθησής μου		Δυσπνοεί πολύ αποφεύγοντας να απομακρυνθεί από το σπίτι του	4
Έχω πολλή ενέργεια	012345	Δεν έχω καθόλου ενέργεια		ή δυσπνοεί όταν ντύνεται ή ξεντύνεται	

ΣΥΝΟΛΙΚΗ ΒΑΘΜΟΛΟΓΙΑ





Initial Pharmacological Treatment

Figure 4.2

≥ 2 moderate exacerbations or ≥ 1 leading to hospitalization **GROUP E**

LABA + LAMA*

consider LABA+LAMA+ICS* if blood eos ≥ 300

0 or 1 moderate exacerbations (not leading to hospital admission) **GROUP A**

A bronchodilator

GROUP B

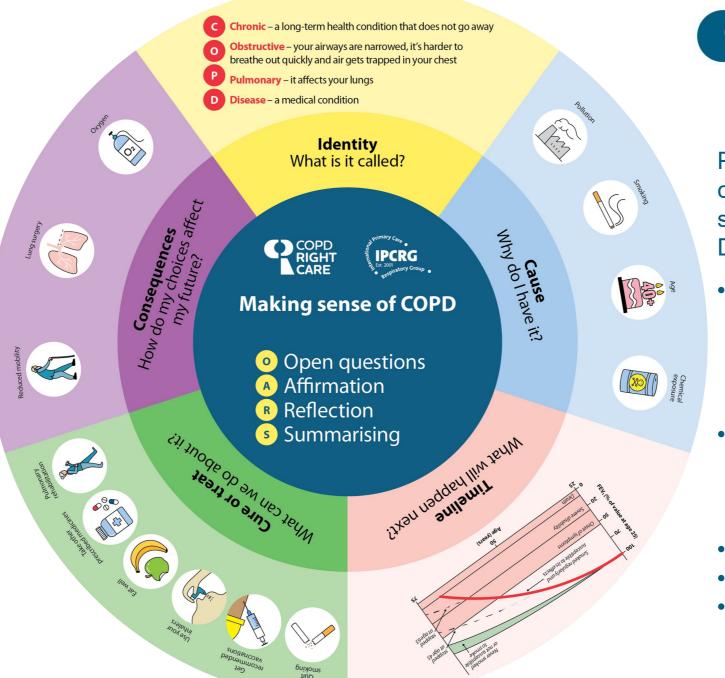
LABA + LAMA*

mMRC 0-1, CAT < 10

 $mMRC \ge 2$, $CAT \ge 10$



*single inhaler therapy may be more convenient and effective than multiple inhalers Exacerbations refers to the number of exacerbations per year

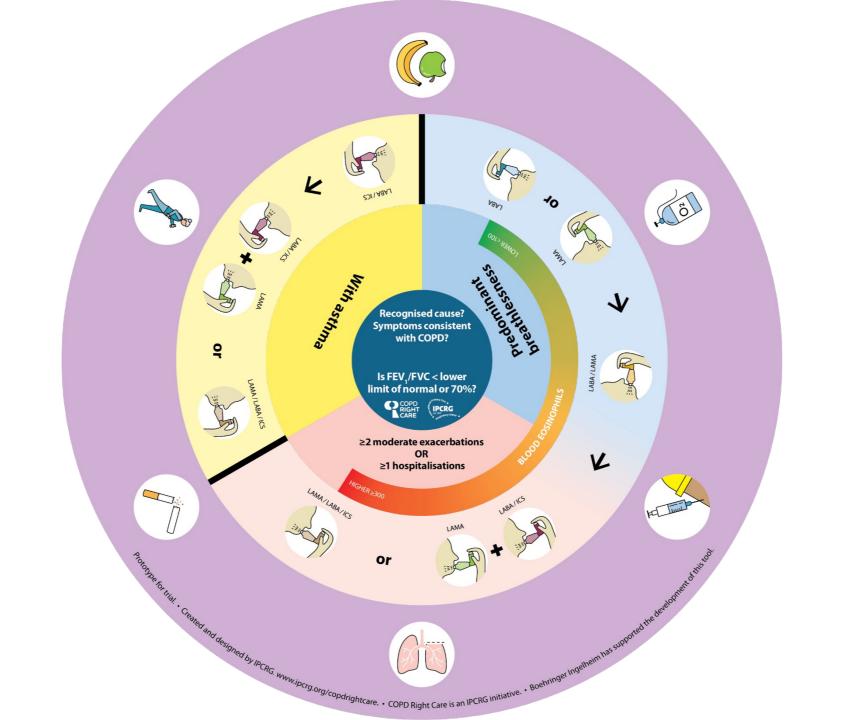




Patient communication side Draws on:

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

Draft released for clinical and patient engagement May 2022



ICS?



DESKTOP HELPER

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 conticosteroids (ICS) is to:

- 1. Help primary care clinicians identify patients with chronic obstructive pulmonary disease (COPD) who would benefit from ICS tment 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 TREATMENT OF PATIENTS WITH COPD

In COPD, evidence supports the use of an 1 For all patients with COPD, LABDs are inhaled conticosteroid (ICS) in combination with a long acting beta-agonist (LASA) or as part of a triple therapy regimen with the GOLD "D" (i.e. symptomatic with addition of a long acting muscarinio exacerbations) with a history of asthma or addition of a long acting muscarinic-antagonist (LAMA) to reduce the risk of symptomatic exacerbations. The effect of initial therapy with LABA/ICS combination these regimens (ICS/LAMA/LABA and ICS/ may be the first choice.) Patients with LABA vs LABA/LAMA) is anester in patients on concomitant asthma should be treated with LABA vs LABA/LAMA) is greater in patients with high exacerbation risk (s2 exacerbations \$ ICS combined with a LABA.* After initial and/or 1 hospitalization in the previous year).2-4 However, until recently there has been no consistent evidence on the long-term | pharmacological treatment, increasing or effects of ICS on mortality or the group of patients who would benefit most.1

Recent studies have shown that blood and they can be used as a biomarker to estimate the benefits of adding ICS to regular bronchodilator treatment for individual

ADVERSE EFFECTS ASSOCIATED WITH ICS THERAPY

There is high quality evidence from randomized controlled trials (RCTs) that ICS use is associated with many adverse effects including oral candidiasis, hoarse voice, skin bruising and pneumonia and results of observational studies suggest that ICS treatment could also be associated with increased risk of diabetes/poor control of diabetes, cataracts, asteoporosis, fracture and mycobacterial infection including

CURRENT RECOMMENDATIONS | IPCRG GUIDANCE ON WHEN ON ICS USE FOR PATIENTS WITH COPD

recommended as firstline treatment. For patients whose disease is classified as with blood eosinophil counts ±300 cells/yL, therapy, clinical response should be reviewed and adjustments made to decreasing therapy, to obtain optimal symptom control. When patients with COPD are experiencing increased breathlessness eosinophil counts predict the effect of ICS in and other symptoms, adjustment of therapy preventing future exacerbations in COPD1.5 to ensure maximal branchodilation is warranted. Current guidelines do not recommend ICS therapy if deterioration is driven by symptoms.1

In COPD patients who continue to experience frequent exacerbations despite appropriate branchadilator therapy and have blood eosinophils <100 µt-1, ICS are not recommended unless the individual patient has a history of asthma; alternative treatments such as raflumilast and azithromycin can be considered.

In patients with blood eosinophils >300 pt-1, the addition of ICS to LABA therapy is recommended. For patients with blood easinophils of 100-300 µt-1, careful consideration of the potential benefits and risks of ICS therapy should be undertaken.⁷

TO BEGIN ICS IN PATIENTS WITH COPD

- 1. Consider ICS combined with bronchodilators 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 exacerbation, and easinophils as shown
- Consider ICS after reassessment of patients with COPD not previously treated with ICS based on risk of exacerbations and eosinophils as shown in Table 1.

In both cases, optimal branchadilation is critical.

CURRENT USE OF ICS FOR PATIENTS WITH COPD

Despite recent recommendations that ICS use should be reserved for a small proportion of patients with COPD, there is evidence of continued inappropriate use of ICS in these patients. Guidelines implementation has been inconsistent as evidenced by numerous studies showing inappropriate prescription or over-prescription of ICS by up to 50%, a situation that has also been shown in the IPCRG UNLOCK study.®

EVIDENCE FOR ICS WITHDRAWAL IN PATIENTS WITH COPD

Updated COPD guidelines support ICS withdrawal¹ and recent studies indicate ICS can be withdrawn in both low- and high-risk patients, provided adequate branchadilator therapy is in place.917

TABLE 1. IPCRG GUIDANCE ON WHEN TO BEGIN ICS IN PATIENTS WITH COPD. FIRST OPTIMISE BRONCHODILATION.

previous year and >300 eosinophils μL ⁻¹ 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: o Recent pneumonia o Confirmed bacterial colonization o Bronchiectasis o 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

and multiple comorbid conditions with a particular focus on the rational use of inhaled conticosteroids and provide guidance for the holistic care of such patients in the primary care setting.

INTRODUCTION

Chronic obstructive pulmonary disease (COPD) is typically accompanied by multiple comorbid conditions. However, auidelines for the management of patients with COPD focus MANAGING THE PATIENT on the disease itself, providing little practical WITH COPD guidance on the routine management of comorbidities. Our objective is to review the | the Global Initiative for Chronic Obstructive impact of comorbidities on treatment choices for patients with COPD, especially with recard to the risks and benefits of inhaled tions including long-acting betaagonists (LABA) and long-acting muscarinic antagonist (LAMA) and with a special focus on inhaled contaceteroids (ICS).

MULTIMORBIDITY IN COPD

long-term management alongside their withdrawal of KC5 must be considered in COPD. I An additional challenge is that case of emergent pneumonia. concomitant conditions, such as asfirma or bronchiectosis, can be overlooked because MANAGING THE MULTIMORBID signs and symptoms may overlap with those associated with COPD. Over 85% of adult PATIENT WITH COPD comorbid condition of clinical relevance half of them have three or more.1.2 The a greater susceptibility to ashma, disease than men.24

Comorbidities often appear in clusters underlying pathobiological mechanisms signal and call to action to undertake a . Anxiety and/or depression (accolerated ageing is associated with both review of COPO treatment with a focus on • Obstructive sleep aprova

COPD and hypertension) and side effects the interface between symptoms of their of COPD treatment (development of comorbid diseases, treatment adherence

According to the latest recommendations of Lung Disease (GOLD), bronchodilation patients with stable COPD. Patients should be initiated on single or dual long-acting bronchodilator therapy. IF KCS/LABA can be considered as an initial therapy for patients in GOLD D with blood eosinophil counts ≥300 cells/pl.® However, as ICS treatment may be associated with an increased risk of Patients with COPD typically present with a pneumonia, a risk-benefit evaluation is multiple comorbid conditions which require | warranted for individual patients and

patients with COPD will have at least one
The management of individual patients with COPD and multimorbidity is often complex requiring the simultaneous application prevalence of comorbidities increases with of several disease-specific treatment worsening COPD severity in both men and guidelines. These guidelines are rarely women and women appear to have aligned with regard to treatment • Ashma • Osteoporosis/fractures osteoporosis, anxiety and depression but approach is of particular importance for appear less likely to have cardiovascular patients with multimorbidity. We would encourage primary care physicians to . Atrial fibrillation undertake regular (at least annual) which suggests common risk factors [re]assessment and treatment adjustment [smoking and inactivity are risk factors for patients with COPD. Emergence of for patients with COPD. Emergence of both COPD and lung cancer), shared multimorbidity should be regarded as a . Gastroesophageal reflux

and side effects of medication

For patients with COPD, multimorbidit is associated with a high level o polypharmacy and an increased risk for adverse drug reactions and interactions as well as an increased risk of hospitalisation and premature death. 1.5.10.14 Polypharm acy is of particular concern when drugs with potential for similar adverse reactions are combined.15

In general, multimorbidity should not delay or after the treatment of COPD and comorbidities should be managed should be directed to ensure treatment simplicity and to minimise polypharmacy.⁸

The management of patients with COPD and multimorbid conditions requires a personalised approach. Primary care physicians should adopt systematic ways to monitor patients with COPD. The interface and side effects of medication should also be considered with special attention paid to the following comorbidities:

- Diabetes
- Pheumonia and tuberculosis
- Chronic poin
- Prostate disease

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.
- 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
 - o Diabetes: reconsider if ICS treatment is needed; if ICS is continued, close follow up, glucose monitoring and titration of antidiabetic treatment are required
 - o Osteoporosis: reconsider if ICS treatment is needed; if ICS is continued, close follow up for 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
 - o Infections (pneumonia or tuberculosis): consider withdrawal of ICS and maximize bronchodilation
- 6. Closely monitor for cardiac rhythm disorders, including atrial fibrillation, when initiating patients
- 7. Monitor for emergent urinary symptoms when initiating patients with chronic kidney or prostate disease on LAMA

Women?



DESKTOP HELPER

No. 8 January 2018

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 challenge is to identify early, 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.

Figure 1 The impact of COPD in women.

Reprinted from Chez, 151(3), Jankins CR, Chapman KR, Donobue JF, Roche N, Telligianni I, Han MK. Improving the management of COPD is women, 686696, Copyright (2017) with permission from Elsevier



THE NEED FOR INCREASED AWARENESS OF COPD IN WOMEN

Prevention and early diagnosis strategies for women usually focus on early cancer detection, despite the fact that women are more likely to die from COPD than from breast and lung cancer combined.12 Until recently, COPD diagnosis in women has been neglected because it has been considered predominantly a disease of men.^U However, because of an increase In smoking and/or an-going exposure to biomass smoke in many countries, COPD prevalence now seems to be similar between women and men. Indeed, data suggest that women could be at greater risk of smokinginduced lung function impairment, and could suffer from more severe symptoms for the same level of tobacco exposure than men.^{1,4} Nonsmokers with COPD are also more greater role in cooking and domestic sponsibilities, occupational exposure dust, and from second-hand smoke.)

WOMEN HAVE DIFFERENT PHENOTYPES AND SOCIOECONOMIC STATUS13

Globally, women with COPD are usually younger, have a lower BMI, less first-hand tobacco smoke exposure, greater risk of significant lung impairment, more severe symptoms with the same level of exposure and a lower socioeconomic status (SES) which affects their access to care. They often disregard their symptoms and tend to be more reluctant to seek care, therefore diagnosis is delayed and they often have more severe disease by the time they are identified. Therefore, we need to support Nonsmokers with COPD are also more initiatives and compaigns to increase likely to be female. Women bear a awareness amongst individuals and disproportionate burden of exposure to risk communities. Women with low sociofactors such as biomass smoke, due to a leconomic status are particularly vulnerable

Women experience more symptoms

(especially breathlessness), have a more impaired quality of life and suffer from more exportagions than men. U.S. This means that women may benefit from closes monitoring of their exacerbation risk, symptoms and quality of life. Primary care professionals 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 Test score (CATIVE brown been suggested for use in primary care. See the IPCRG COPD wellness assessment tools desktop helper for more information,*

Asthma is more common in women? so Ashma-COPD overlap (ACO) is also more diagnoses need to be considered in order to Institute correct treatment.

DIFFERENT COMORBIDITIES: MORE DEPRESSION, ANXIETY AND OSTEOPOROSIS1,3

Women are more likely to suffer from depression and anxiety than men.* This reathlessness, and depression and/or arxiety are strong determinants of quality if life, A prompt diagnosis enables the depression and/or anxiety to be appropriately managed and will improve quality of life. Simple questionnaires like PHQ4 and PHQ9 have been tested and which may be a side effect of high days Inhaled and/or frequent oral corticosteroid use, is also more prevalent in women than)

Some of the validated questionnaires commonly used in primary care

m MRC http://goldcopd.org

https://www.mrc.ac.uk/research/facilities-and-resources-for-researchers/mrc-scales/ MRC

mrc-dyspnoea-scale-mrc-breathlessness-scale/

http://ccq.nl/ CCQ

CAT http://www.catestonline.org/ PHQ4 http://gihep.com/phq4/

PHQ9 https://patient.info/doctor/patient-health-questionnaire-phq-9

https://patient.info/doctor/generalised-anxiety-disorder-assessment-gad-7 GAD7

Figure 1 The impact of COPD in women.

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

UNDER-DIAGNOSIS AND SUBOPTIMAL TREATMENT

Women with COPD are more likely to be misdiagnosed, potentially leading to suboptimal treatment

COPD DISEASE PRESENTATION

Women are generally younger, smoke less and have lower 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 women vs men. More asthma, osteoporosis and depression vs men. Evidence of greater psychological impairment in women vs men

TOBACCO USE Prevalence:

Varies by location

Equal to men in some countries

Increasing in many low and middle income

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



DESKTOP HELPER

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

Increased work of

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

INTRODUCTION Mental health problems, including anxiety

and depression, one common among people with COPD and substantially impact their quality of life (QoL), in countries where tools are substantially impact their quality of life (QoL), in countries where too considerable in the properties of the countries where the countries where the countries where the countries where the complex site-relationships between them and symptoms such as brenthessness, which is complex site-relationships between them and symptoms such as brenthessness, which is complex site-relationships to the complex site-relationships the contribution of the complex site of the countries of the complex site of the countries of the

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

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PSVCHOLOGICAL DISTRESS
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TOBACCO USE AND POOR MENTAL HEALTH

While smoking rates are not high among people with COPD in all countries, where

With special thanks to Anna Spathis (contributor) and Steve Holmes, Nazim Uzzaman and Oscar Flores-Flores (reviewers)

Breathing and feeling well through universal access to right care

COPD and Mental Health Slide set

COPD and Mental Health Film Amanda Barnard interviewing Ioanna Tsiligianni



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
2.	Not being able to stop or control worrying	0	1	2	3	anxiety
3.	Little interest or pleasure in doing things	0	1	2	3	A score of 3 or more considered + for
4.	Feeling down, depressed or hopeless	0	1	2	3	depression

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.

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



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



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

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) Triage 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,

Suggests remote consultation:

- · Patient preference eg 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
- Opportunity to gain insight into home
- Has equipment for observations: O2 saturation, temperature, blood pressure,
- 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 triage^{6,7}

This can be used to decide which patients need face to face contact. However, there 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.

Diagnosis

IPCRG colleagues advise remote consultations for diagnosis are only appropriate when the need for infection control is paramount. They may be sufficient to assess probability of diganosis 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 group and supportive consultations can be carried out remotely and offer the opportunity to gain from several experts in ■ one session. They may help the patient feel in the epicentre of care, and also give them confidence to ask more auestions. This may spark support between the patients themselves, facilitated and guided by the

PROVIDING THE REMOTE RESPIRATORY CONSULTATION

Prepare well: use checklists (green boxes). Follow a structured approach, noting types of talk (Figure 1), and need for "tidying 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 observations or evaluating their overall health

App-based technology: examples

- . MyHealth (UK; paid for) eg myCOPD and myASTHMA
- SaniQ (Germany: paid for)
- Hailie™ (free): medication monitoring for asfirma and COPD
- · Smart Peak Flow (free): Smart sensor technology to track PEF
- · AsthmaTuner (Swedish and English)
- . MASK Air (for allergic rhinits)

Checklist for HCPs (some could be done by trained

- 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
- Can they use it correctly
- Do I need to see them if so, is a video-consultation possible?
- . Is the family/home condition supportive?

. Do I have my glasses with me (if I need them)?

inhaler(s)?

"You may prefer to complete these with your HCP during the consultation

Checklist for patients

· Have I completed any tests, diary or

questionnaires my HCP has sent*?

· Am I in a quiet and private place?

Have I prepared a list of questions for my HCP?

. Which symptoms are bothering me most at the

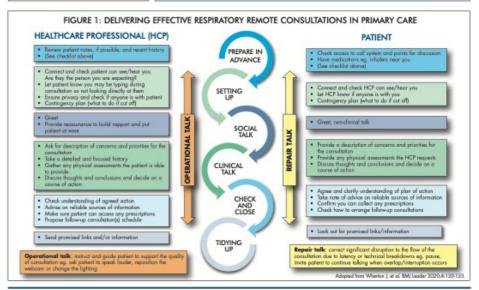
. Do I have my medications to hand, including my

. Do I have a pen and paper to hand to make

Useful tests that can be done remotely*

- Peak flow test https://www.ashma.org.uk/advice/manage-your-ashma/peakflow/
- Inhaler technique https://www.ashma.org.uk/advice/inhaler-videos/
- Pulse aximetry https://www.youtube.com/watch?v=YCWTqKilhQ

- Breathlessness questionnaires
 MRC Breathlessness Scale www.pcrs-uk.org/mrc-dyspnoeo-scale
 Modified MRC https://academic.oup.com/occnsed/article/67/6/496/4095219
- COPD questionnaires
 COPD Assessment Test https://www.catestonline.org/
- Clinical COPD Questionnaire (CCQ) www.ccq.nl
- Ashma Cantrol Test https://www.ashmacontroltest.com
- CARAT https://core.ac.uk/download/pdf/62692897.pdf
- RCP 3 questions https://cks.nice.org.uk/topics/ashma/management/fallow-up/#the-royal-college-of-physicians-3-
- See IPCRG guide to tools here: asthma https://www.ipcrg.org/resources/search-resources/search-cartrolools-2016 and COPTD https://www.ipcrg.org/shav/ipcrg/files/content/atachments/2019-10-23/ipcrg_usen_guide_to_copt_wellness_tools_tools_
- * Links are to some open source videos and instructions note none were designed specifically for remote consultations



References: 1 Hyman P, JAMA Intern Med. 2020;180(11):1417-1418. 2.Mold E, et al. JMR Med Inform 2019;7:e13042. 3. Chron MA, et al. BMJ Global Health 2019;4:e001629. 4. Thyragangan A, et al. BJOP Open 2020; 6:bigpopen 20X101020. 5. lyengar K, et al. Clin Res Rev 2020; 14:797-799. 6:McKinstry B, et al. BNJ 2017;358; H345. 7. Nembodd J, et al. BNJ 2017;358; H197. 8. Green radjo T, et al. BNJ 2020 358 vi 1182 9 Renney T et al. RMI 2020 359 vi 2022

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Πνευμονική αποκατάσταση



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

Pulmonary rehabilitation (PR) is a structured programme tailored to an individual's needs to reduce their breathlessness, improve their quality of individual's needs to reduce their breathestness, improve their quality life (neutraling their files of breathestness), and improve their exercise capacity. The intervention therefore improves people's ability to participate in daily file. It is an exercise-bosed programme accompanied by self-management deducation to being people file better with chronic taug disease. It is fundamental to, and should be integrated into, their overall care. PR has also been shown to reduce the use of expensive services such as hospital inpatient care. It can be delivered safely in the community, outside of hospital. Despite its proven clinical and cost effectiveness, PR is widely underused.12

PR is for adults of all ages who are functionally limited by theil breathlessness despite-current management.

Why is it important?

wary is it importantly. Progle with intensit lang conditions like COPO become breathless with little exertion and this can be very frightening for these and their ferrilles or cares, has resurt, people may avaid activities which make them breathless, leading to physical deconditioning, demobration and potentially social isolation.

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



of life. I go out again. You can or ter, 190 out again, tou can combine having (a lung condition) with living a normal life, I no longer feel 50 years old, I feel 20 again"





consultation: see the examples at www.ipcrg.org/PR ASK about breethlessness "How has breathlessness changed your life?"
"What troubles you most about being breathless?" Use a Breathlessness.

"Interviewed you make south being uneclassed. One of expensional of Scaline g., 1961, 1971 telps you breathy better, feel good, do mone/return to work (If applicable) and istrongly recommend fir. Have a look at what other breathirs people say about 12." ACT: Patients intervested in goling to PR mill require support. What you say

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

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

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 or

your life."
Provide information and education about their condition and how the 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		
Maintenance	Ongoing	Start of	
Person does not	Programme	Programme	

1. Know the pathway and how to refer. Advocate for inclusive refers

turn up to begin their PR

- criteria and apply them.

 Limit "handoffs" between clinicians: e.g., refer to an expert to asser breathlessness or refer directly to a PR programme.
- 3. Take a systematic approach to assessment of breethlessness: MR
- Commitment.
 Be ware of what PR is available, go and see a session.
 Be ware of what PR is available, go and see a session.
 Bendingshe individual concerns about perceived lack of bending instability, coulder evidence of successions age, handwritten sestimentes and photographic limit consent) or ask the powder for these. Beconfident and exhibitations:
 Individual confident and exhibitations:
 Individual confident and exhibitations:
- I, interin the water commany or its beaeths and promoter training familiar and accessible language and storifes.

 8. Let feedback from the providers about an individual's progress and chainings (this will have ab source or more of offers contact).

 9. Initials about offering psychological support, which may be any psychological support, which may be a psychological support, which may be a psychological support, which may be a psychological support and support an
- accordingly.

 11. Plan for drop-outs and allow re-entry into the programme

What marks out a good programme? f there is a choice or you have the authority to influence provision, selec

- service case. Has trained staff with expertise in chronic lung disease

- not stoned state wor dependent is known and gasenee.
 Tabloss the programme to the individual's specific physical, social, cognitive and psychological model.
 Others on the popt personal advice on broathing techniques, and the psychological management of fear of proetifications.
 Procecifica and adjusts occurried using FITT principles (see over page).

programme of prescribed exercises preferably face-to-face but possibly structured home-based with telephone or internet support, and flexible educational approaches. 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.
- 6. 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.

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.

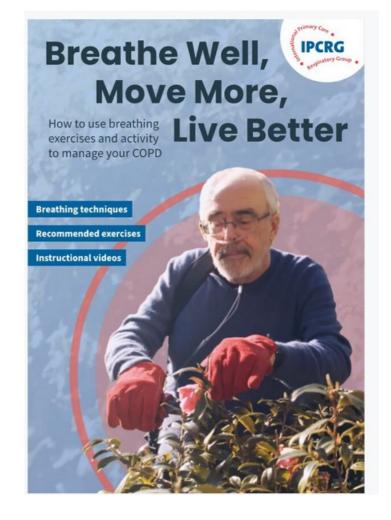
Delivering the programme

- 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.

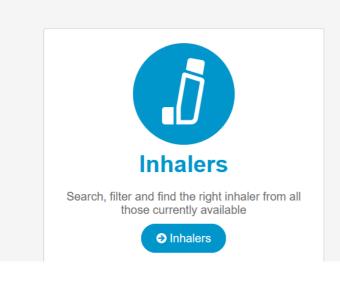
Intervention	Purpose/aim	Supporting evidence
Cognitive behavioural therapy	Problem-solving approach that challenges unhelpful thoughts/behaviours; reduces anxiety in COPD in short term; increases pulmonary rehabilitation attendance.	Yohannes AM, et al. J Am Med Dir Assoc 2017;18: 1096.e1-1096.e17. Heslop-Marshall K, et al. ERJ Open Res 2018;4: 0094-2018. Pumar MI, et al. J Thorac Dis 2019;11(Suppl 17): S2238–S2253.
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.	Seetee S, et al. J Med Assoc Thai 2016;99:828–8. Malpass A, et al. BMJ Open Respir Res 2018;5:e000309. Tan SB, et al. J Pain Symptom Manage 2019;57:802–8. Look ML, et al. BMJ Supportive & Palliative Care 2021; 11:433–9.
Relaxation techniques	Some evidence that relaxation interventions can help anxiety, breathlessness and fatigue in COPD. Guided imagery ('thinking of a nice place'), progressive muscular relaxation and counting are most acceptable.	Hyland ME, et al. Int J Chron Obstruct Pulmon Dis 2016; 11:2315–9. Yilmaz CK, Kapucu S. Holist Nurs Pract 2017;31:369–77. Volpato E, et al. Evid Based Complement Alternat Med 2015;2015:628365.
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.



Εισπνευστική τεχνική

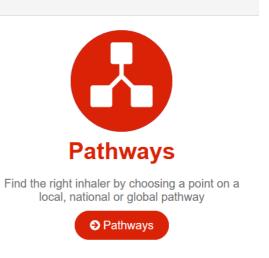


Inhaler prescribing information





Spacers



Τα άτομα με ΧΑΠ αξίζουν επανεξέταση-παραπομπή

Επανεξέταση

Δομημένη αξιολόγηση των συμπτωμάτων, της ευεξίας, της εισπνευστικής τεχνικής, του μελλοντικού κινδύνου και των αναγκών υποστήριξης σε αποδεκτά χρονικά διαστήματα με πρόσθετη παρακολούθηση μετά από παροξυσμό ή αλλαγή στη διαχείριση.

Όταν η ΧΑΠ τους δεν μπορεί να αντιμετωπιστεί με τη συνήθη πρωτοβάθμια περίθαλψη-ΠΑΡΑΠΟΜΠΗ

*Interactive version available with hyperlinks. Scan the QR code.



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.



GINA Global Strategy for Asthma Management and Prevention

Key recommendations for primary care from the 2022 Global Initiative for Asthma (GINA) update

The Global Initiative for Asthma (GINA) was established in 1993 by the World Health Organization and the US National Heart Lung and Blood Institute to improve asthma awareness, prevention and management worldwide, and develops and publishes evidence-based, annually updated resources for clinicians.

This review published in our journal, npjPCRM, summarizes guidance for primary care from the 2022 GINA strategy report. Asthma treatment is not "one size fits all"; GINA recommends individualized assessment, adjustment, and review of treatment.

www.ipcrg.org/copdrightcare

Thank you!!!

