



Εθνικές οδηγίες χωρών για ΧΑΠ

Στέλιος Λουκίδης MD Phd FCCP FERS ERS educational council Ιατρική σχολή ΕΚΠΑ

Conflicts [Honorarium fees]

- AstraZeneca Greece & Bulgaria & Poland
- Boehringer Ingelheim Greece& Europe
- Chiesi
- GlaxoSmithKline Greece & Denmark
- Elpen
- Menarini Helllas
- Novartis Hellas & Europe
- Pharmaten Hellas
- Vianex/MSD

Σχεδιασμός

- Εισαγωγικά στοιχεία-Διαφορές Ευρωπαϊκών προσεγγίσεων?
- Η Ευρώπη
- Στη διαστρωμάτωση
- Στις παροξύνσεις
- Η Ασία & Ωκεανία
- Μηνύματα για το σπίτι

Σε ποιους απευθύνονται –από ποιους συντάσσονται

Country	Evidence system used	Organisation involved in the development	Participants involved in the development	Intended audience	Reference
Czech Republic	Consensus	The Czech Pneumological and Phthisiological Society (CPPS) commissioned an expert group to draft recommended guidelines for the management of stable COPD. Subsequent revisions were further discussed at the National Consensus Conference. Reviewers' comments contributed to the establishment of the final version.	Pulmonologists and pharmacologists	Pulmonologists (full version), internists, GPs, and emergency physicians (reduced version). The Czech national recommendation was fully accepted by the State Institute for Drug Control (SUKL).	[43]
England	NCE technical manual methodology (includes GRADE)	National Institute for Health and Care Excellence (NICE)	Pulmonologists, GPs, respiratory nurses, physiotherapists patients, NICE technical team (Including health economists), feedback from registered stakeholders (payors, professional bodies, hospita's etc.)	Pulmonologists, GPs, other specialists, all other heathcare professionals involved in caring for people with COPD, payors and managers.	https://www.nice.org.uk/process, pmg20/chapter/introduction- and-overview [44]
Finland	Evidence-based medicine and GRADE methodology	The Current Care Guidelines were developed by the Finnish Medical Society Duodecim in association with various medical specialist societies. The guidelines were produced with public funding and are open to all healthcare professionals and the general public, and include patient versions. A large reviewing group including GPs was asked to comment on the guideline.	Pulmonologists, GPs and Internists	Pulmonologists, GPs, other specialists, all other healthcare professionals (including nurses, physiotherapists, pharmacists) and citizens	www.kaypahoitofl/web/english/ home [41, 45]
France	(A) Position paper/ statement on pharmacological treatment optimisation of stable COPD	A restricted expert group was commissioned by the national society (SPLF) to produce an initial proposition. A larger reviewing group including GPs was asked to comment.	Pulmonologists and GPs	Pulmonologists and GPs	[46]
	(B) GRADE method for guidelines on exace/bations	An extensive multidisciplinary group of experts and end-users was commissioned to produce the initial document, which was commented on by a panel of external reviewers.	Pulmonologists, GPs, Intensivists, emergency physicians, physiotherapists and nuises	Pulmonologists, GPs, intensivists, emergency physicians, physiotherapists and nurses	[47]
Germany	Consensus	The German Respiratory Society (DGP) and the German Airway League (AWL) commissioned an expert group to develop a guideline for the diagnosis, assessment and management of COPD.	Pulmonologists	Pulmonologists, GPs, intensivists, emergency physicians, physiotherapists, nurses and patients	Vogelmeier CF et al. Pneumologie 2017; in preparation
italy	Consensus	The document was prepared by a working group appointed by the three major national respiratory societies (AIMAR, AIPO and SIMeR) and the Italian Society of General Medicine (SIMG). Representatives of the Italian Ministry of Health and AGENAS, were involved as external independent observers to ensure ethical, social and solidarity principles.	Pulmonologists and GPs	Pulmonologists and other specialists working either inside or outside the hospital setting, GPs, other healthcare professionals, patient associations, and institutions at national, regional, or local level	[48]

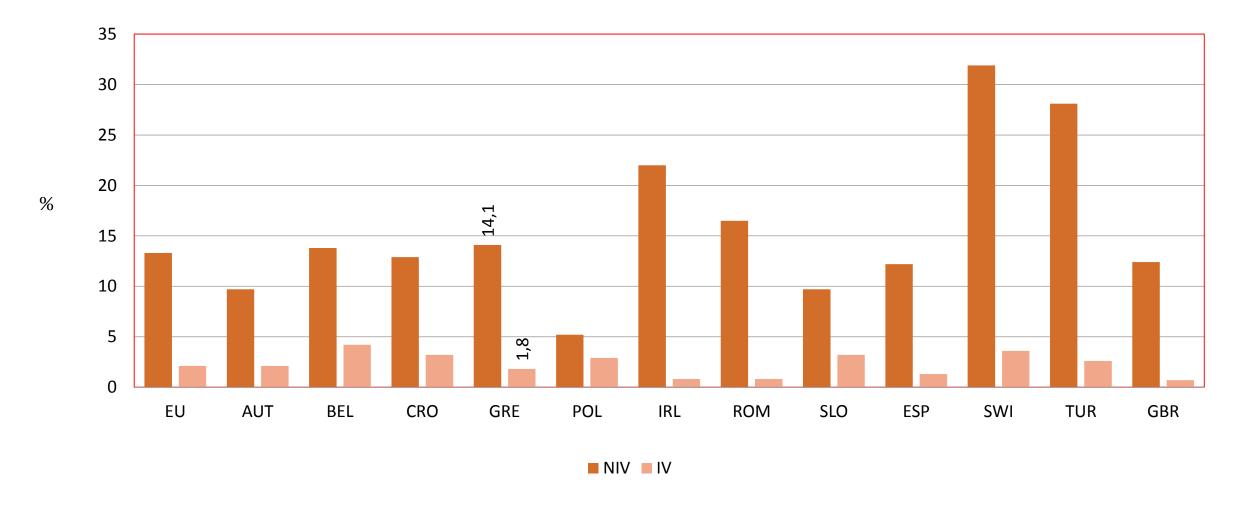
Καταδεικνύουν τη διαφορετική άποψη σε διάφορα θέματα -προσπαθούν να διαφοροποιηθούν από τα GOLD?

	Severity of airflow limitation	Symptom severity	Exacerbation risk
Czech Republic	GOLD stages 1, 2, 3 and 4	mMRC or CAT	Low risk: 0-1 exacerbations High risk: ≥2 exacerbations
England and Wales"	FEV ₁ /FVC <70% pred and Mild: FEV ₁ ≥80% pred; moderate: FEV ₁ 50– 79% pred; severe: FEV ₁ 30–49% pred; very severe: FEV ₁ <30% pred	Presence of systemic symptoms BMI Health status: measure not specified [CAT in NICE quality standard] Exercise capacity [e.g. 6-min walking distance] Pa02	Not specified
Finland	Low risk: FEV1 ≥50% pred High risk: FEV1 <50% pred [¶]	CAT score <10 or ≥10	High risk: ≥2 exacerbations or one leading to hospitalisation in the past year
France	GOLD stages 1, 2, 3 and 4	mMRC Episodic versus daily occurrence of dyspnoea on exercise	History of exacerbations (≥2)
Germany	GOLD stages 1, 2, 3 and 4	Not graded or used for assessment	Not graded or used for assessment
Italy	Mild: FEV1 ≥80% pred; moderate: FEV1 <80% pred and ≥50% pred; severe: FEV1 <50% pred	None stated	None stated
Poland	Mild: FEV1 ≥80% pred; moderate: FEV1 <80% pred and ≥50% pred; severe: FEV1 ≥30% pred and <50% pred; very severe: FEV1 <30% pred	mMRC or CAT	High risk: FEV1 <50% pred, or ≥2 exacerbations treated with antibiotics or 1 hospitalisation due to exacerbation within past 12 months
Portugal	GOLD stages 1, 2, 3 and 4 Overall: GOLD A, B, C and D classification used	mMRC or CAT	Low risk: 0-1 moderate exacerbations High risk: ≥2 moderate or ≥1 severe exacerbation
Russia	Mild: FEV1 ≥80% pred; moderate: FEV1 <80% pred and ≥50% pred; severe: FEV1 ≥30% pred and <50% pred; very severe: FEV1 <30% pred	mMRC, CAT or CCQ	High risk: according to GOLD 2011 classification (high risk ≥2 exacerbations or ≥1 hospitalisation per year)
Spain	GOLD stages 1, 2, 3 and 4	CAT	Low risk: 0-1 exacerbations
Sweden	FEV ₁	CAT, CCQ or mMRC	High risk: ≥2 exacerbations Number per year

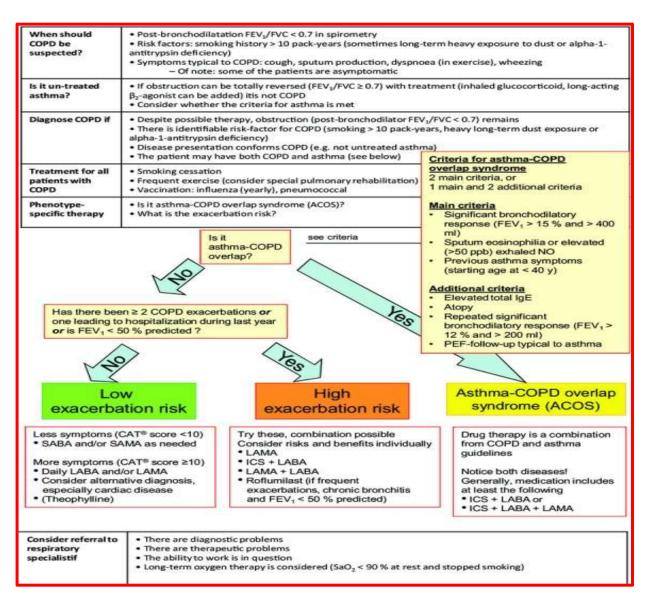
Καταδεικνύουν τη διαφορετική άποψη σε διάφορα θέματα -προσπαθούν να διαφοροποιηθούν από τα GOLD?

	LABA + LAMA	ICS	
Czech Republic England and Wales	Option for all patients; depends on severity Consider in patients indicated for ICS + LABA if ICS refused or cannot be tolerated Consider in patients with persistent breathlessness despite treatment with LAMA, LABA or ICS + LABA	Patient with ACOS or frequent exacerbator Patients who remain breathless or have exacerbations despite using short-acting bronchodilators and FEV₁ <50% pred and in patients with FEV₁ ≥50% pred who remain breathless or have exacerbations despite maintenance therapy with a LABA; increased risk of pneumonia is mentioned	
Finland	Alternative choice	Patient belongs to high exacerbation risk group (frequent exacerbations despite the use of appropriate bronchodilator therapy, FEV1 <50-70% pred) or presents with ACOS; increased risk of pneumonia is mentioned	
France	GOLD stage 2 patients if there is dyspnoea during usual activities despite single long-acting bronchodilator GOLD stages 3 and 4	Used only as part of fixed-dose combinations; FEV1 <50% pred [<60% pred for salmeterol/fluticasone] and repeated exacerbatio (≥2 per year) and symptoms despite regular treatment with bronchodilator(s) (LABA and/or LAMA)	
Germany	GOLD stage 2 and higher (possibly triple therapy and additional treatments in GOLD stages 3 and 4)	FEV₁ <50% pred and ≥1 exacerbation treated with systemic steroic and/or antibiotics in the past year	
Italy	A second long-acting bronchodilator with a complementary mechanism of action may be added if the patient and/or physician are not satisfied with the response to single-agent therapy	In symptomatic patients, with prebronchodilator FEV1 <60% pred and ≥2 exacerbations per year; ICS may be added to LABA	
Poland	Alternative choice	≥2 COPD exacerbations treated with antibiotics/oral steroids or ≥1 hospitalisation due to COPD exacerbation within past 12 months, or FEV1 <50% pred	
Portugal	Alternative choice	ICS are recommended in GOLD classes C and D; no specific criteria are stated for use in these classes, but frequent exacerbations should prompt augmentation of therapy	
Russia	First choice in GOLD D patients Alternative choice in GOLD B and C patients	Frequent exacerbations, sputum eosinophilia or systemic inflammation; increased risk of pneumonia is mentioned	
Spain Atternative choice (nonexacerbator)		ACOS, exacerbator phenotype despite optimal bronchodilation; increased risk of pneumonia is mentioned	
Sweden Alternative choice in GOLD B patients First choice in GOLD C and D patients		Repeated exacerbations or FEV1 <50-60% pred	

NIV vs. IV



Αναγνώριση-φαινοτύπηση-διαστρωμάτωση-Αντιμετώπιση: Η Φιλανδική άποψη



Long-term pharmacological treatment of COPD has two separate aims, but same medication may help in achieving therapeutic benefit in both aims.

Aim 1: Controlling symptoms

Bronchodilation; reduction of symptoms either short-term or long-term

- SABA: fenoterol, salbutamol, terbutaline
- SAMA: ipratropium
- LABA: formoterol, indacaterol, olodaterol, salmeterol
- LAMA: aclidinium, glycopyrronium, tiotropium, umeclidinium
- Teophylline (?)

Aim 2: Reducing future risk

Preventing future exacerbations of COPD LAMA: Tiotropium, aclidinium, glycopyrronium,

ICS + LABA

umeclidinium

- LABA: salmeterol, formoterol, olodaterol, indacaterol
- LABA + LAMA
- Roflumilast

How to evaluate the effectiveness of the medication and how to decide whether to stop or continue medication?

Evaluate first whether the given medication is used to achieve aim 1 or aim 2.

If the given drug is used to achieve both aims, the decision whether or not to continue is made based on the criteria shown for the aim 2.

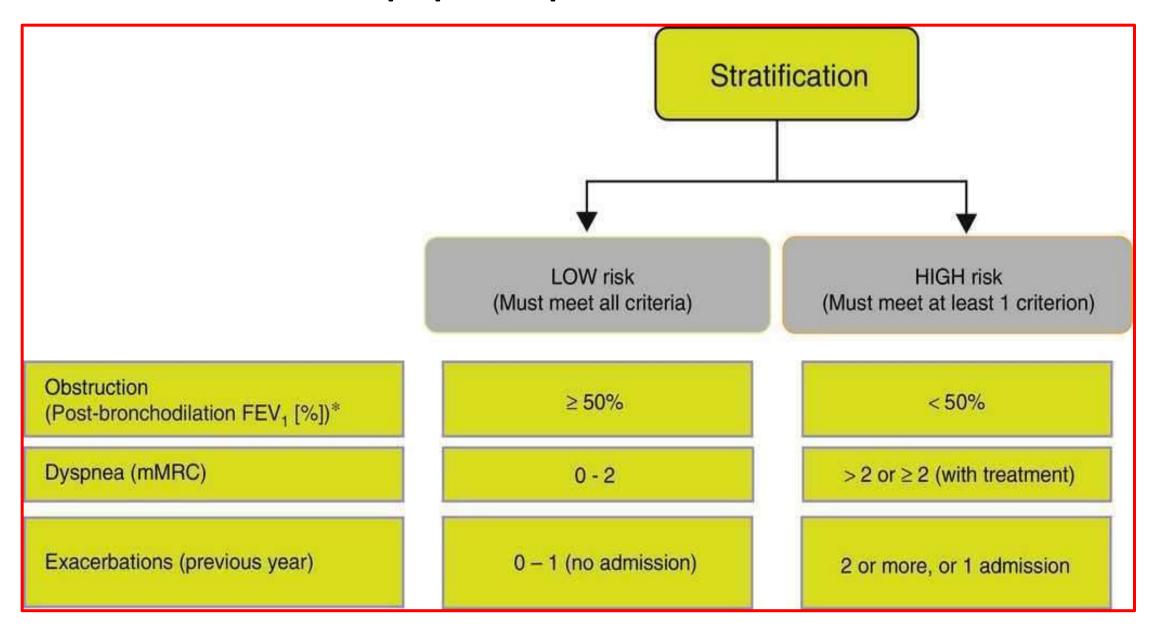
Aim 1: One or more of the following findings in the absence of severe adverse events support the continuation of the given medication

- Reduction in daily symptoms
 - symptom assessment e.g. by CAT®-test
- Improvement in exercise tolerance
- Improvement in objective lung function measurements (e.g. FEV₁, FVC or PEF; however, this is not a prerequisite to continue medication)

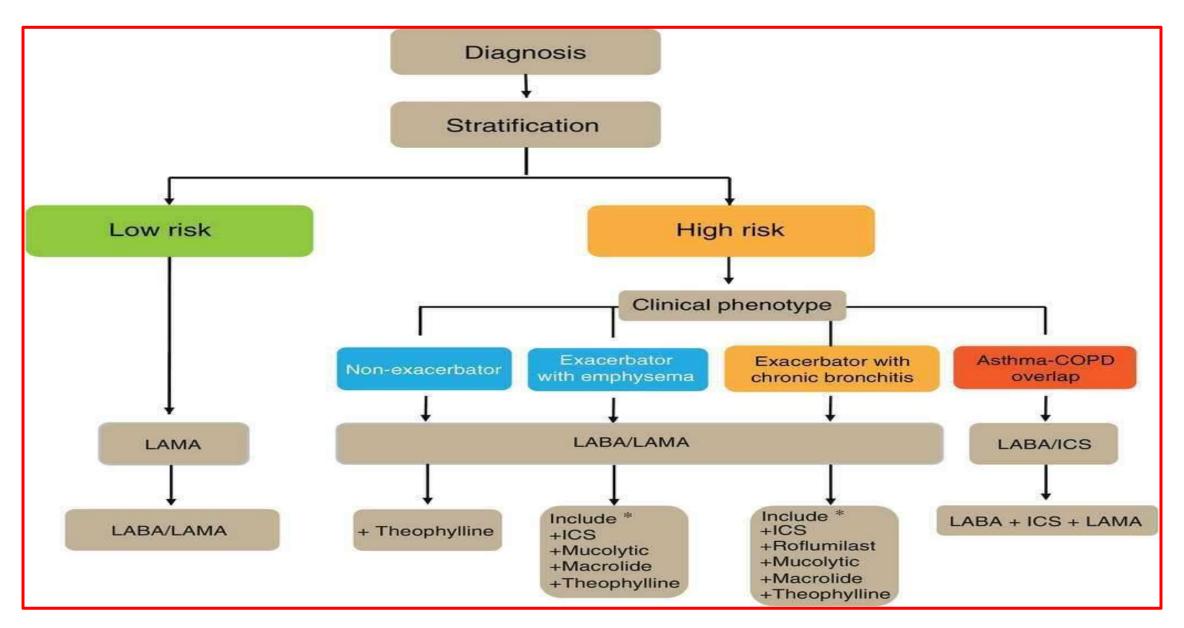
Aim 2: One or more of the following findings supports stopping the medication:

- Appearance of a severe adverse effect
- Appearance of a mild to moderate adverse effect that is frequent and/or affects the quality of life (e.g. repeating episodes of candidiasis or diarrhoea) and disappears after stopping the medication
- Of note! Lack of improvement in symptoms or lung function is not a reason to stop medication!

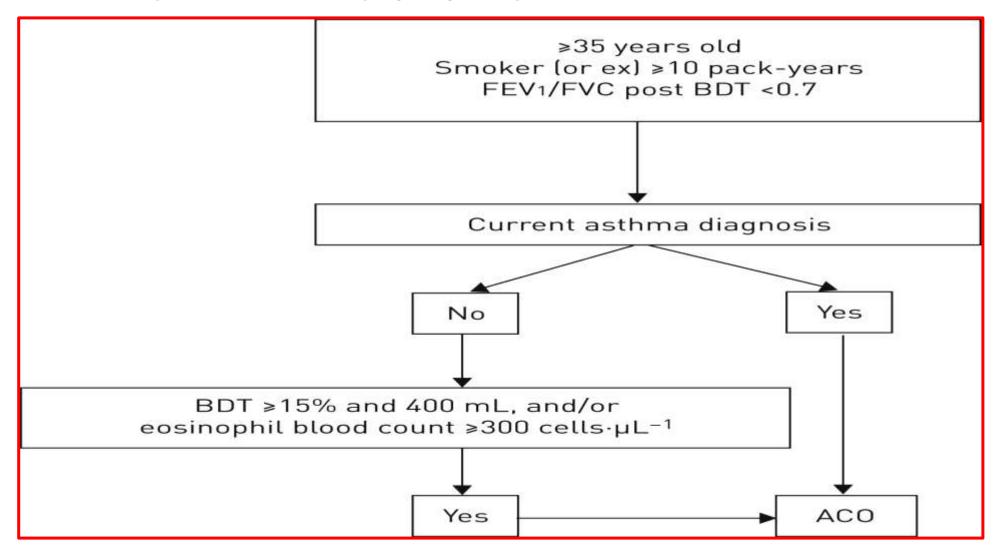
Διαστρωμάτωση κινδύνου-Ισπανία



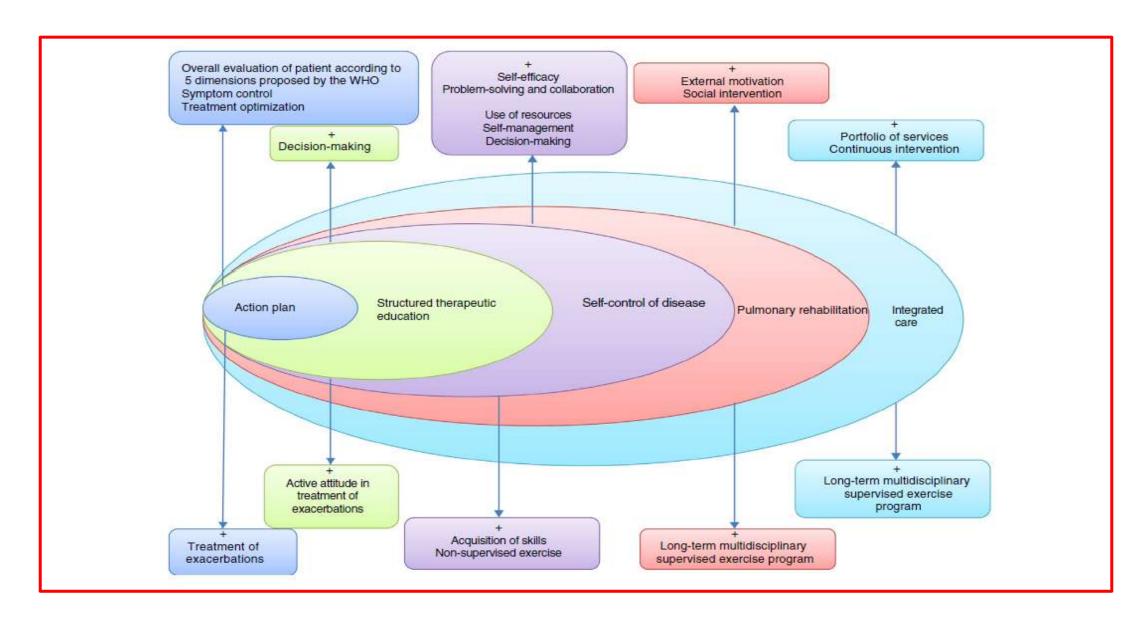
Θεραπεία βάσει κινδύνου-Ισπανία



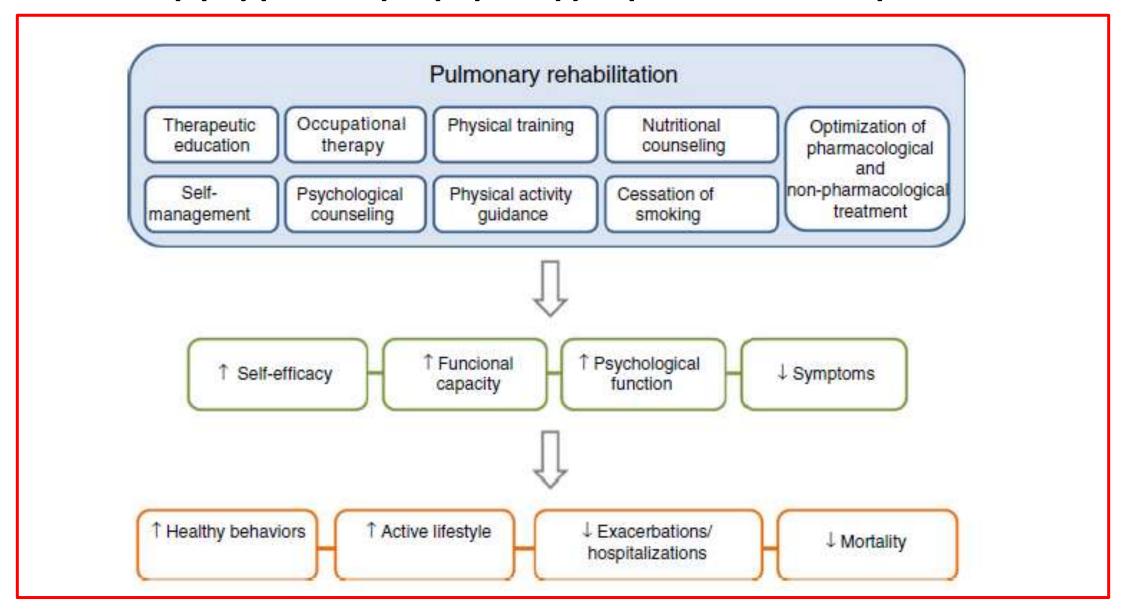
Διαγνωστικός αλγόριθμος για ΑCO: Ισπανία



Μη φαρμακολογική προσέγγιση: Ισπανία

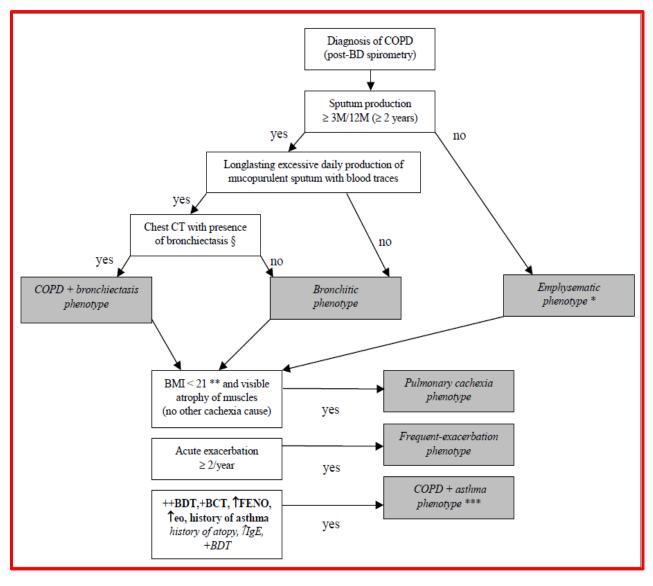


Μη φαρμακολογική προσέγγιση-Αποκατάσταση: Ισπανία



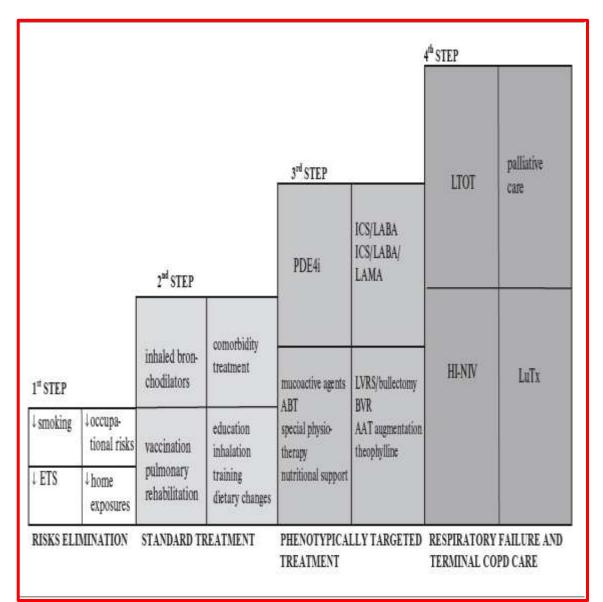
Φαινοτυπική θεραπευτική προσέγγιση-Τσεχία

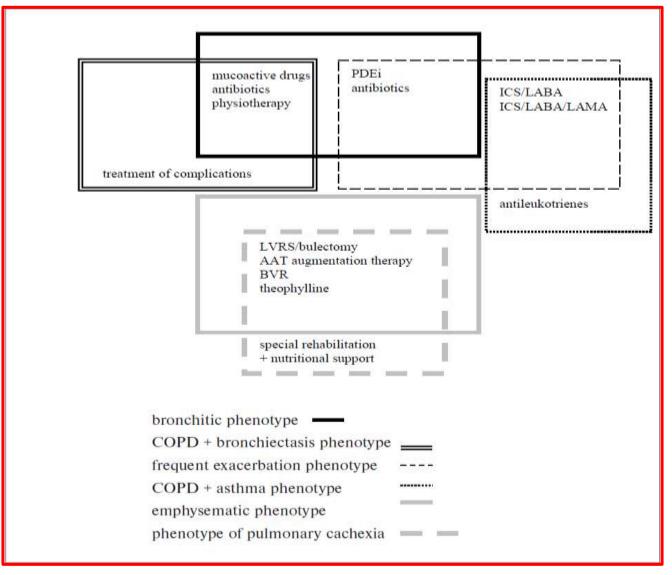
COPD phenotypes	Basic features of COPD phenotypes	
Bronchitic phenotype	The presence of productive cough (≥ 3 months/year in two or more consecutive years)	
Emphysematic phenotype	Lifetime absence of productive cough and clinical signs of pulmonary emphysema*	
Overlap COPD	Major criteria:	
+ asthma **	(a) strong BDT positivity (FEV ₁ >15% and > 400 mL),	
	(b) BCT positivity,	
	(c) FENO ≥ 45-50 ppb and/or †eo (sputum) ≥ 3%,	
	(d) history of asthma	
	Minor criteria:	
	(a) mild BDT positivity (FEV ₁ > 12% and > 200 mL),	
	(b) † total IgE, (c) history of atopy	
	- and definite COPD diagnosis	
Overlap COPD	Accented, almost daily, purulent sputum expectoration, younger age, lower or no smoking	
+ bronchiectasis	burden, history of prolonged/recurrent respiratory infections, hemoptysis, HRCT confirmation	
	of bronchiectasis	
	- and definite COPD diagnosis	
Frequent-exacerbation phenotype	Presence of frequent exacerbations (> 2/year) treated with ABT and/or corticosteroids	
Pulmonary cachexia phenotype ***	BMI < 21 kg/m ² - no other cause (FFMI < 16 kg/m ² in males or < 15 kg/m ² in females)	



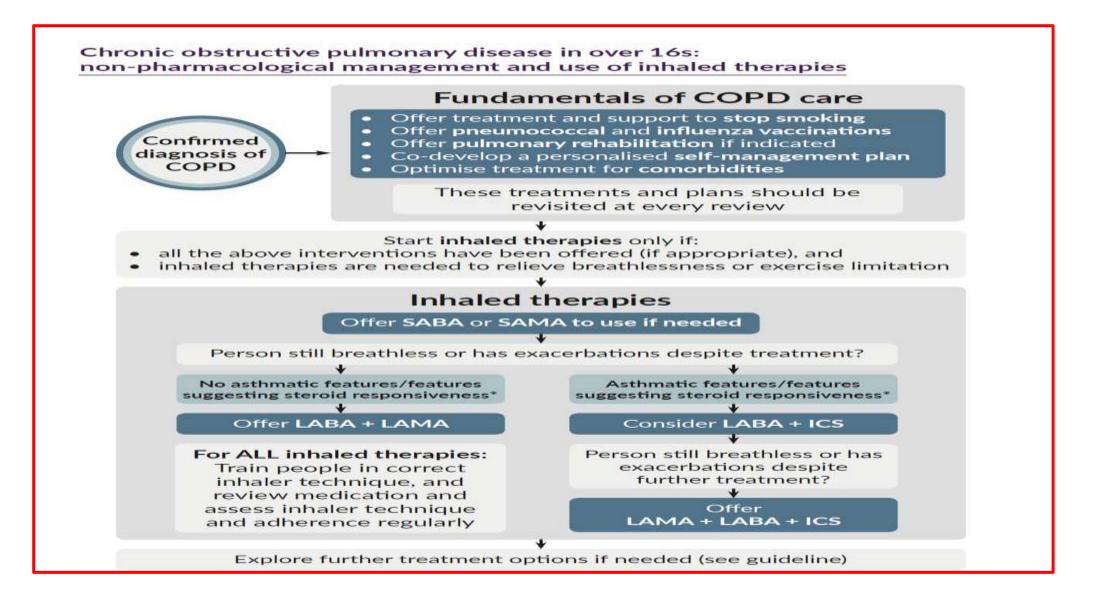
Koblizek V et al Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub 2013

Φαινοτυπική θεραπευτική προσέγγιση-Τσεχία

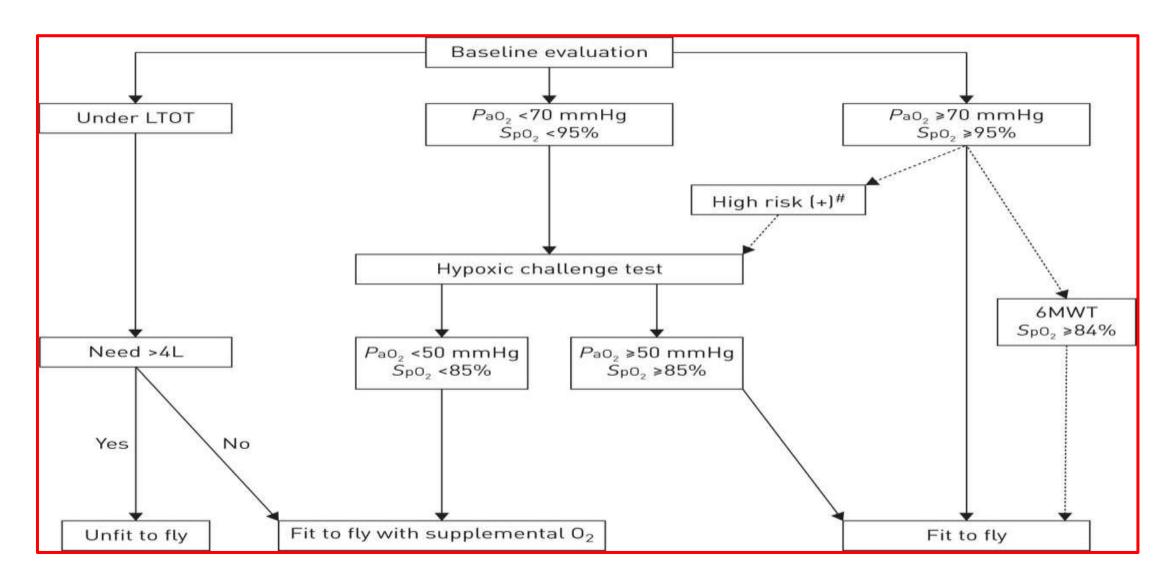




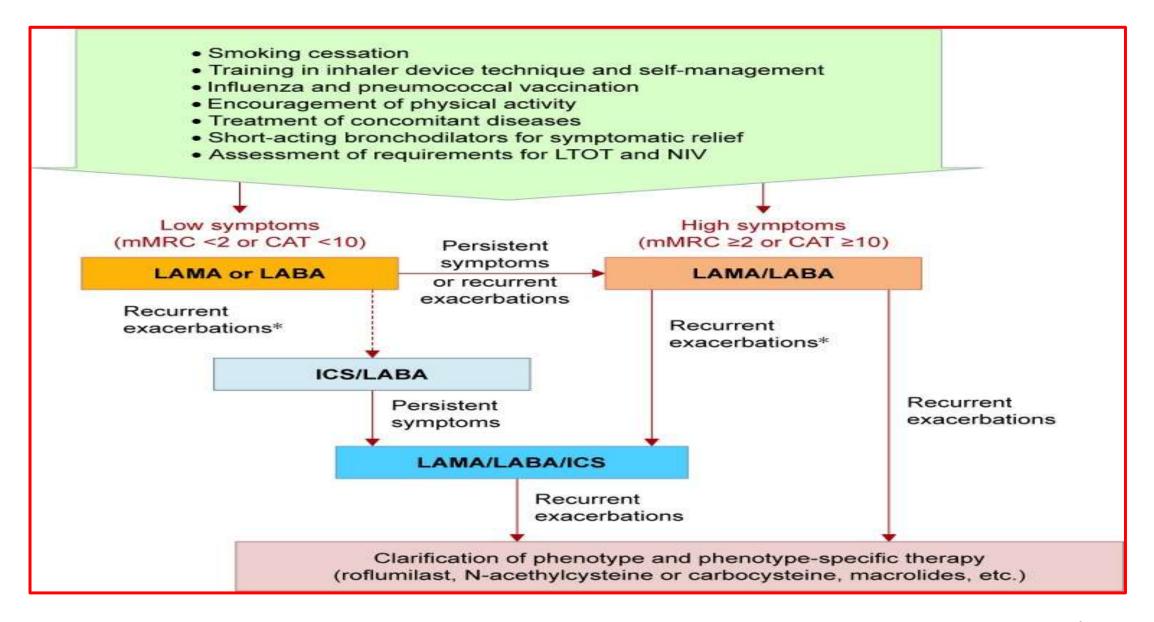
Τα τελευταία ΝΙCΕ 12/2018. Μ Βρετανία



Αλγόριθμος ασφαλούς ταξιδιού.



Η Ρωσική άποψη



Επικέντρωση στη παρόξυνση: Γαλλία

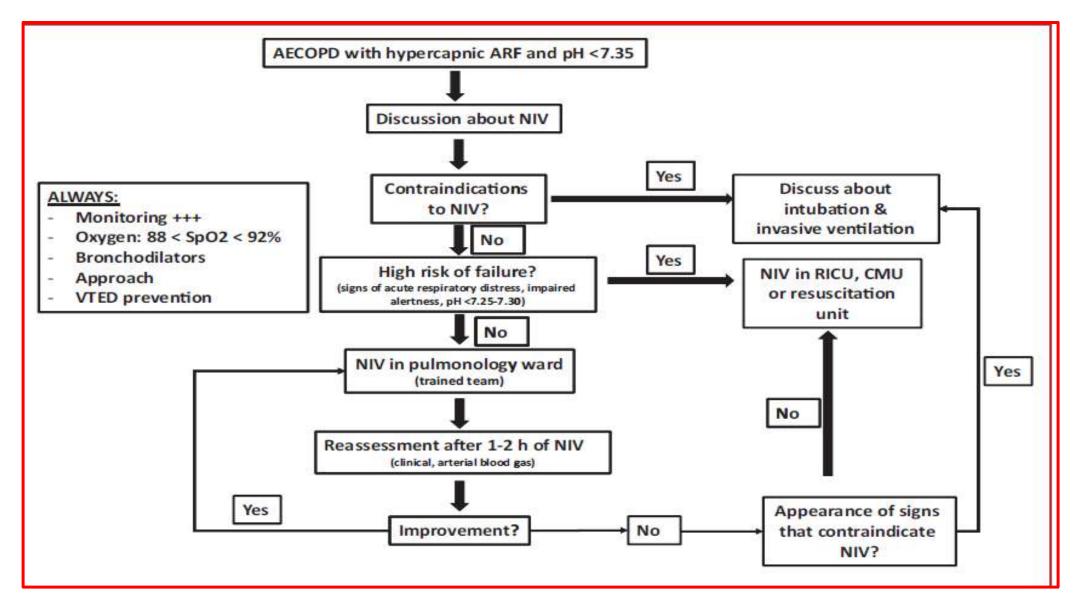
Table 4 Hospitalization criteria for patients with AECOPD (level of evidence "expert agreement").
Criterion
Background Age > 70 years Socially-isolated patient General condition Activity level Severity of the underlying COPD Frequent exacerbations Recent arrhythmia Long-term oxygen therapy History of OTI for ARF Comorbidities PVD Coronary bypass Failure of first treatment Clinical SpO ₂ < 90% Flapping tremor Heart rate > 110/ min Cyanosis LLE Too sick for a simple 3-min walk test after first treatment in the admissions service and emergencies department Diagnostic uncertainty Biological or radiological anomalies Radiological abnormalities pH PaO ₂ EKG acute abnormalities Anemia (Hb < 10 g/dL) Renal failure: urea > 12 mmol/L
TCO ₂ > 35 mmol/L
AECOPD: acute exacerbations of chronic obstructive pulmonary disease; PVD: peripheral vascular disease; Hb: hemoglobin; OTI: oro-tracheal intubation; ARF: acute respiratory failure; LLE: lower limb edema; EKG: electrocardiogram.

Clinical and functional parameters		
Involvement of respiratory muscles	Absent	
SpO ₂ on room air or under low oxygen flow	> 88-90%	
Ambulation in the room	Possible without major dyspnea	
Food intake	Possible without major dyspnea	
Sleep	Possible without major dyspnea	
Use of short-acting bronchodilators	< 3 times per day	
Biological parameters		
Arterial blood gas testing	Absence of acidosis during the last 24h	
Socio-economic parameters		
Home support if necessary	Planned	
Long-term oxygen therapy if necessary	Implemented	
Respiratory physiotherapy if necessary	Implemented	
Self-management parameters		
Handling of inhaler devices	Acquired	
Promoting adherence to treatments	Performed	
Recognizing the signs of exacerbation	Acquired	
Individualized actions to be taken in case of exacerbation	Acquired	
Smoking cessation	Proposed	
Organization of the long-term monitoring		
Attending physician and/or attending pulmonologist	Planned upon hospitalization and discharge	
Prescriptions	Written and explained	
Pulmonology monitoring consultation	Planned	
Smoking cessation consultation	Planned	
Lung function testing	Planned	
Walk test	Planned	

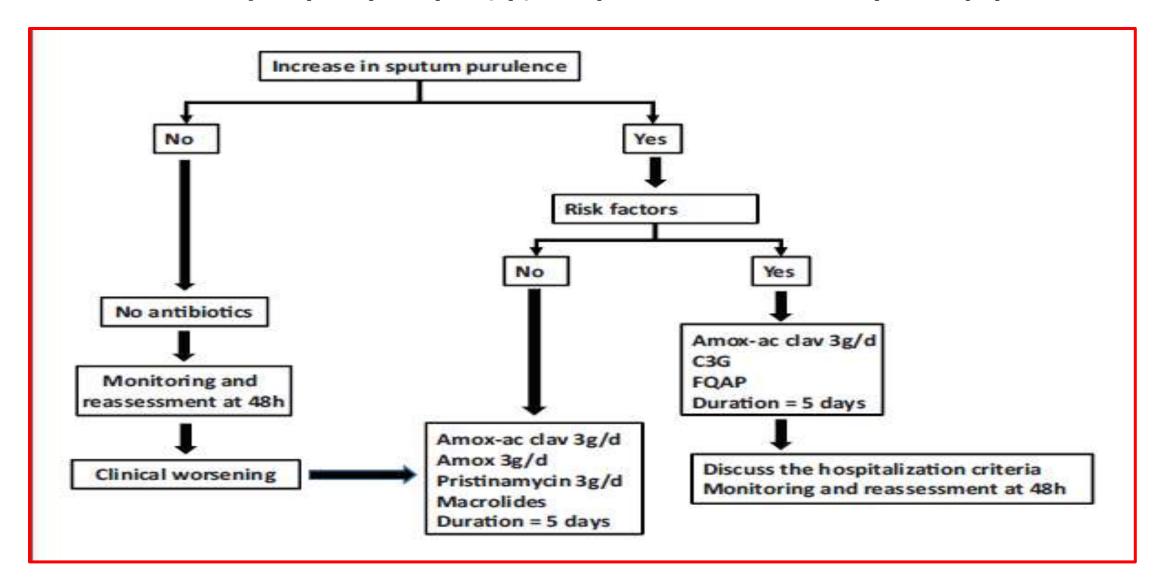
classification has been proposed with several degrees of severity: mild (increased symptoms controlled with & without antibiotic treatment), moderate (requiring a treatment with antibiotics and corticosteroids), serious (or severe) characterized by hospitalization.

S. Jouneaua et ak Revue des Maladies Respiratoires (2017) 34, 282—322

Επικέντρωση στη παρόξυνση: Γαλλία



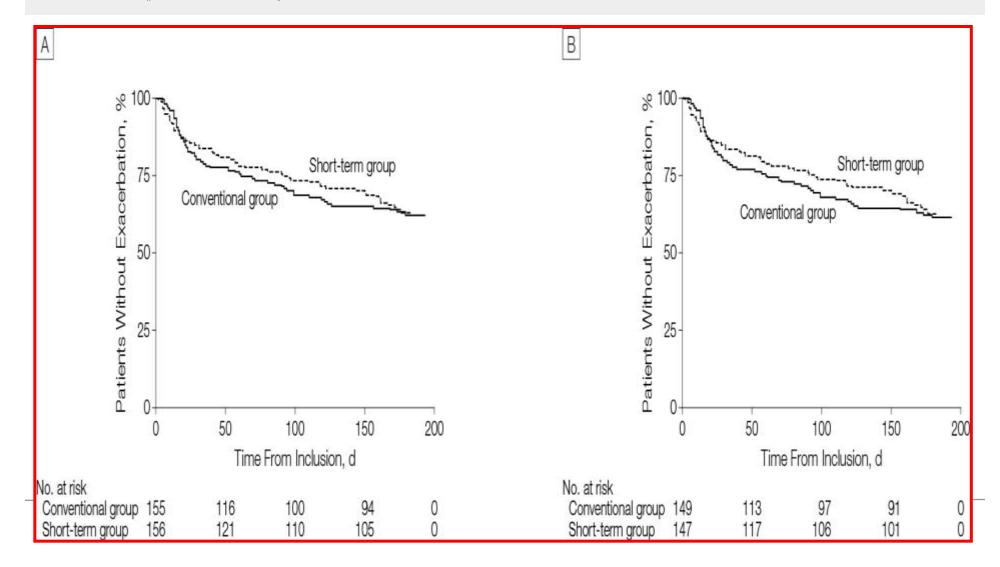
Αναγνώριση λοίμωξης -θεραπεία: Η Γαλλική άποψη

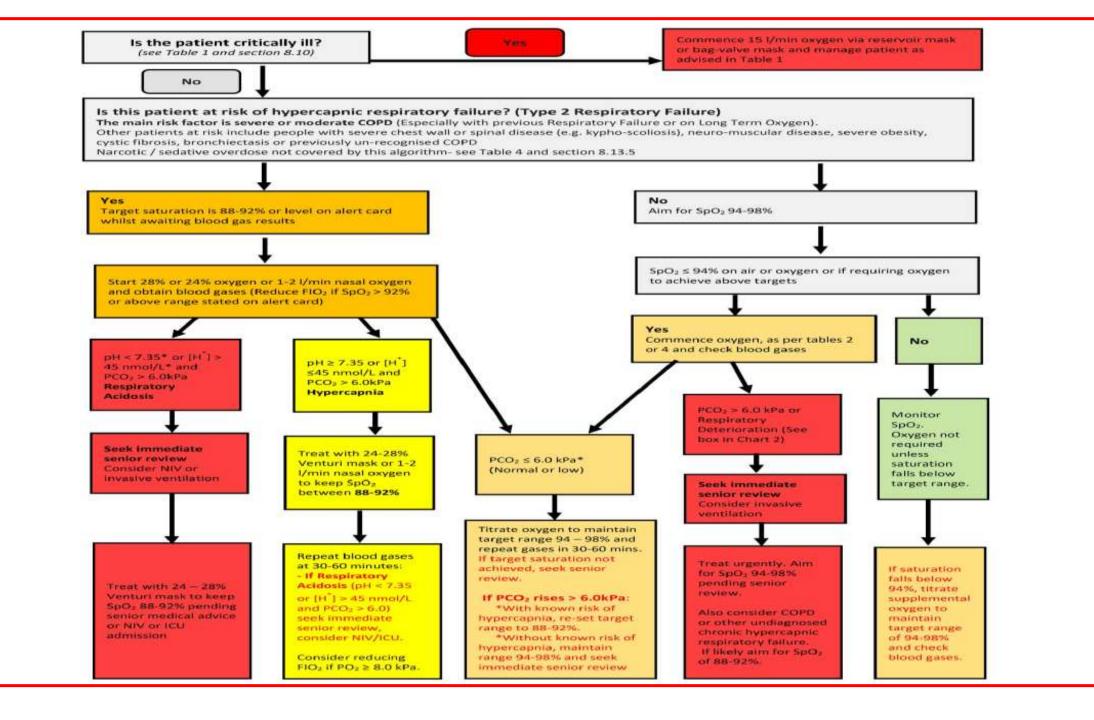


Ελβετική ανακάλυψη

From: Short-term vs Conventional Glucocorticoid Therapy in Acute Exacerbations of Chronic Obstructive Pulmonary Disease: The REDUCE Randomized Clinical Trial

JAMA. 2013;():1-9. doi:10.1001/jama.2013.5023



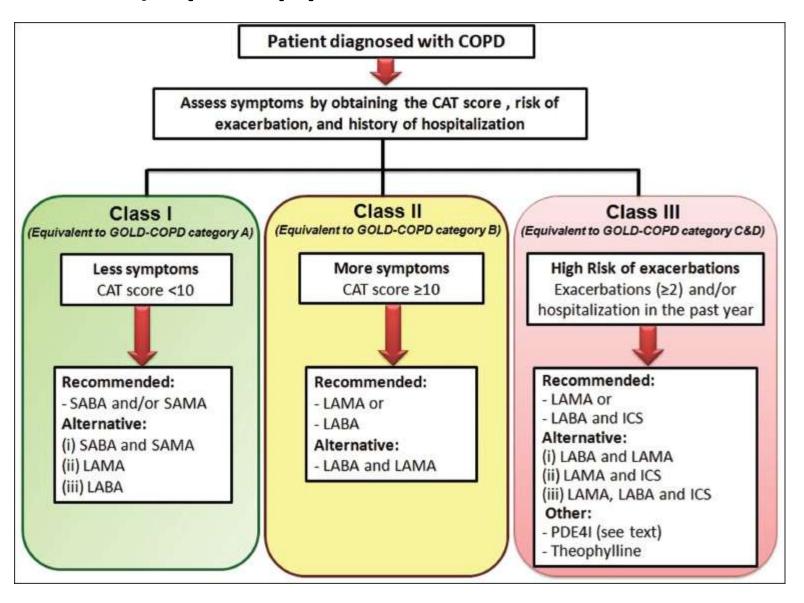


Ορισμός από Ασιατική πλευρά

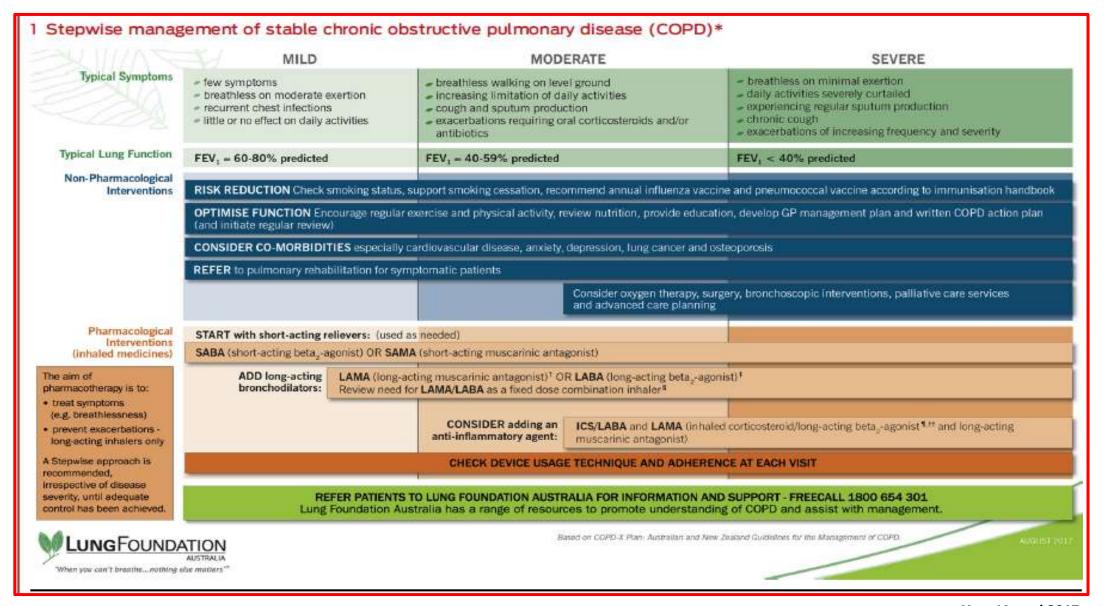
 COPD is a chronic lung disease that includes emphysema, chronic bronchitis, or a combination of these. It may develop due to exposure to cigarette smoke or other forms of noxious materials and pollution that leads to a chronic bronchial inflammatory response and parenchymal damage. COPD is characterized by persistent irreversible or potentially reversible airway obstruction that is associated with chronic symptoms (dyspnea, productive cough, and wheezing) and bouts of exacerbations.

Απλότητα? Η κινέζικη άποψη

Class	Characteristics	Exacerbation in the past year	CAT score	GOLD equivalent	
Class I Less symptoms At low risk of exacerbation		0-1	≤10	Group A	
Class II	More symptoms At low risk of exacerbation	0-1	≥10	Group B	
Class III	At high risk of exacerbation	≥2	Any score	Group C and D	



Διαστρωμάτωση και συνολική αντιμετώπιση: Αυστραλία



Παραπομπή στον ειδικό: Αυστραλία

Reason prompting referral	Purpose of referral	
Diagnostic uncertainty and exclusion of asthma	Establish diagnosis and optimise treatment Obtain more detailed lung function testing	
Unusual symptoms such as haemoptysis	Investigate cause urgently, including exclusion of malignancy	
Rapid decline in functional performance	Optimise management and exclude other conditions	
Persistent symptoms	Optimise management and exclude other conditions	
Frequent chest infections (ie, more than annually)	Assess preventable factors and rule out coexisting bronchiectasis, optimise treatment	
Onset of ankle oedema	Assess for cor pulmonale and optimise treatment	
Spo ₂ < 92% when stable	Optimise management, measure arterial blood gases and prescribe oxygen therapy if needed	
Assessing suitability for pulmonary rehabilitation, if uncertain	Optimise treatment and refer to specialist or community-based rehabilitation service	
Bullous lung disease on CXR or CT	Confirm diagnosis and refer to medical or surgical units for bullectomy if needed	
Patient with COPD aged < 40 years	Establish diagnosis and exclude α_1 -antitrypsin deficiency	
Persistent dyspnoea, marked hyperinflation, severe airflow limitation or emphysema (refer for assessment for lung transplantation, or bronchoscopic or surgical lung volume reduction procedures)	Identify criteria for referral to transplant, thoracic surgery or interventional bronchoscopy centres	
Dyspnoea associated with chest tightness, anxiety or dizziness (refer for consideration of dysfunctional breathing*)	Establish diagnosis and refer for further investigation to exclude other causes of these symptoms	
Daytime sleepiness, complaints by partner of heavy snoring	Assess for sleep disordered breathing and refer for sleep studies if needed	
Indications for hospitalisation of patients with COPD	Marked increase in intensity of symptoms Patient has an exacerbation characterised by increased dyspnoea, cough or sputum production, plus one or more of the following: Inadequate response to appropriate community-based management;	
	 inability to walk between rooms when previously mobile; 	
	Inability to eat or sleep because of dyspnoea;	
	cannot manage at home even with homecare resources;	
	high-risk comorbid condition (pulmonary or non-pulmonary);	
	 altered mental status suggestive of hypercapnia; worsening hypoxaemia or cor pulmonale; 	
	newly occurring arrhythmia; or	
	newly occurring hypoxaemia (Spo ₂ < 92%)	

covering breathlessness, hyperventilation, chest tightness, paraesthesiae, anxiety or dizziness. .

Μηνύματα για το σπίτι

- Υπάρχουν σαφείς αποστάσεις από τα GOLD
- Σπιρομέτρηση : Λείπει
- Διαστρωμάτωση : Διχοτόμηση
- Η μεγαλύτερη συμφωνία επιτυγχάνεται στην διαχείριση της παρόξυνσης
- Γιατί η καθημερινότητα δεν τις ακολουθεί? Ανασφάλεια-άγνοια?
- Όλα δεν είναι κουτάκια
- Ήρθε η ώρα της Ελλάδας.....