Guidelines and Guidance

Guideline Synthesis

National Guideline Clearinghouse (NGC) Guideline Synthesis [US]

Diagnosis and Management of Stable Chronic Obstructive Pulmonary Disease (COPD)

Guidelines Being Compared:


Journal articles

Thorax, July 2014, Volume 69, Issue 7

Editorials

The devastating power of platelets in COPD exacerbations: can aspirin save lives in COPD?
Don D Sin
Thorax 2014;69:603-604
[Extract]

Using absolute risks to assess the risks and benefits of treatment
Mitchell H Gail
Thorax 2014;69:604-605
[Extract]

Red, amber and green: the role of the lung in de-priming active systemic neutrophils
Chronic obstructive pulmonary disease

Original article: Thrombocytosis is associated with increased short and long term mortality after exacerbation of chronic obstructive pulmonary disease: a role for antiplatelet therapy?
Michelle T Harrison, Philip Short, Peter A Williamson, Aran Singanayagam, James D Chalmers, Stuart Schembri
Thorax 2014;69:609-615
[Abstract]

Original article: Benefits and harms of roflumilast in moderate to severe COPD
Tsung Yu, Kevin Fain, Cynthia M Boyd, Sonal Singh, Carlos O Weiss, Tianjing Li, Ravi Varadhan, Milo A Puhan
Thorax 2014;69:616-622
[Abstract]

Critical care

Original article: Pulmonary retention of primed neutrophils: a novel protective host response, which is impaired in the acute respiratory distress syndrome
Charlotte Summers, Nanak R Singh, Jessica F White, et al.
Thorax 2014;69:623-629
[Abstract][Full text][PDF][Supplementary Data][Request permissions]
Editor's choice FREE OPEN ACCESS

Lung cancer

Original article: Systemic but not topical TRAIL-expressing mesenchymal stem cells reduce tumour growth in malignant mesothelioma
Elizabeth K Sage, Krishna K Kolluri, Katrina McNulty, et al.
Thorax 2014;69:638-647
[Abstract][Full text][PDF][Supplementary Data][Request permissions]
OPEN ACCESS

Original article: Atypical carcinoid tumours of the lung: prognostic factors and patterns of recurrence
M A Cañizares, J M Matilla, A Cueto, et al. EMETNE-SEPAR Members
Thorax 2014;69:648-653
[Abstract]

Respiratory epidemiology

Original article: Epidemiological time series studies of PM$_{2.5}$ and daily mortality and hospital admissions: a systematic review and meta-analysis
R W Atkinson, S Kang, H R Anderson, I C Mills, H A Walton
Thorax 2014;69:660-665
[Abstract][Full text][PDF][Supplementary Data][Request permissions]
OPEN ACCESS

Review

Lessons from ECLIPSE: a review of COPD biomarkers
Thorax 2014;69:666-672
[Abstract]
Research letter

The impact of azithromycin therapy on the airway microbiota in asthma
Mariel Slater, Damian W Rivett, Lisa Williams, et al.
Thorax 2014;69:673-674
[Extract][Full text][PDF][Supplementary Data][Request permissions]
OPEN ACCESS

Chest clinic

Audit, research and guideline update

Audit, research and guideline update: Cost effectiveness of endosonography versus surgical staging in potentially resectable lung cancer: a health economics analysis of the ASTER trial from a European perspective
Robert C Rintoul, Matthew J Glover, Christopher Jackson et al.
Thorax 2014;69:679-681
[Abstract]

Basic science for the chest physician

Basic science for the chest physician: Protease-mediated ectodomain shedding
Peter Clark
Thorax 2014;69:682-684
[Abstract]

Case based discussions

Case based discussions: Recurrent pneumothoraces in a 17-year-old man with mixed connective tissue disease
Claire McBrien, Andrea Penketh, Hilary Johnson, Andrew G Nicholson, Athol Wells
Thorax 2014;69:685-686
[Extract]

American Journal of Respiratory and Critical Care Medicine
Volume 190, Issue 1 (July 1, 2014)

Macrolide Antibiotics for Prevention of Chronic Obstructive Pulmonary Disease Exacerbations: Are We There Yet?
Marcos I. Restrepo, and Antonio Anzueto

Reduced Antibacterial Immunity in Chronic Obstructive Pulmonary Disease: A Key Role for Lymphocytes?
Dave Singh
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 1: 3-4.

Untangling the Healthcare Use Patterns of Severe Sepsis Survivors
Hannah Wunsch

Tuberculosis, Pulmonary Cavitation, and Matrix Metalloproteinases
Catherine W. M. Ong, Paul T. Elkington,, and Jon S. Friedland
Update in Lung Transplantation 2013
Jamie L. Todd, Jason D. Christie, and Scott M. Palmer

Update in Sepsis and Pulmonary Infections 2013
Richard G. Wunderink and Keith R. Walley

Increased 1-Year Healthcare Use in Survivors of Severe Sepsis
Hallie C. Prescott, Kenneth M. Langa,, Vincent Liu, Gabriel J. Escobar, and Theodore J. Iwashyna,,

Oxygenation Response to Positive End-Expiratory Pressure Predicts Mortality in Acute Respiratory Distress Syndrome. A Secondary Analysis of the LOVS and ExPress Trials
Ewan C. Goligher, Brian P. Kavanagh, Gordon D. Rubenfeld, et al.
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 1: 70-76.

Study of Active Duty Military for Pulmonary Disease Related to Environmental Deployment Exposures (STAMPEDE)
Michael J. Morris, Darrel W. Dodson, Pedro F. Lucero, et al.
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 1: 77-84.

Pulmonary Arterial Mycotic Pseudoaneurysms in a Patient with Invasive Pulmonary Aspergillosis. Successful Occlusion by Coils

Placental Transmogrification of the Lung: A Rare Cause of Unilateral Bullous Disease
Michael P. Mohning, Marvin I. Schwarz, and Sarah J. McKinley

Mounier-Kuhn Syndrome. Imaging and Bronchoscopic Findings
Karim El-Kersh, Muhammad Yasin, Rodrigo Cavallazzi, and Rafael L. Perez
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 1: e2-e3.

Sleep-related Periodic Breathing Does Not Acclimatize to Chronic Hypobaric Hypoxia: A 1-Year Study at High Altitude in Antarctica
Helio Fernandez Tellez, Olivier Mairesse, Eoin Macdonald-Nethercott, et al.

American Journal of Respiratory and Critical Care Medicine
Volume 190, Issue 2 (July 15, 2014)

Inhaled Interferon: A Novel Treatment for Virus-induced Asthma?
Daniel J. Jackson,
The Lipidome: A New Player in Chronic Obstructive Pulmonary Disease Pathophysiology?
Louise E. Donnelly,

A New Player in the Game: Epithelial Cathepsin S in Early Cystic Fibrosis Lung Disease
Marcus A. Mall, and Carsten Schultz

Ivacaftor: From Bench to Bedside . . . and Back Again
Kevin Molloy, and Noel G. McElvaney

Pulmonary Hypertension due to Fibrotic Lung Disease: Hidden Value in a Neutral Trial
Steven D. Nathan, and Roberto G. Carbone,

Sleep Apnea and Diabetes: Good Friends or Something More?
Jessie P. Bakker, and Sanjay R. Patel,
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 2: 133-134.

Using Pulmonary Imaging to Move Chronic Obstructive Pulmonary Disease beyond FEV1
Harvey O. Coxson, Jonathon Leipsic, Grace Parraga, and Don D. Sin
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 2: 135-144.

The Effect of Inhaled IFN-β on Worsening of Asthma Symptoms Caused by Viral Infections. A Randomized Trial
Ratko Djukanovic, Tim Harrison, Sebastian L. Johnston, et al., and the INTERCIA Study Group

Untargeted Lipidomic Analysis in Chronic Obstructive Pulmonary Disease. Uncovering Sphingolipids
Eef D. Telenga, Roland F. Hoffmann, Ruben ‘t Kindt, et al.

Respiratory Syncytial Virus Increases the Virulence of Streptococcus pneumoniae by Binding to Penicillin Binding Protein 1a. A New Paradigm in Respiratory Infection
Claire M. Smith, Sara Sandrini, Sumit Datta, et al.
American Journal of Respiratory and Critical Care Medicine, Vol. 190, No. 2: 196-207.

Bosentan in Pulmonary Hypertension Associated with Fibrotic Idiopathic Interstitial Pneumonia
Tamer J. Corte, Gregory J. Keir, Konstantinos Dimopoulos, et al.; for the BPHIT Study Group

Obstructive Sleep Apnea and Incident Diabetes. A Historical Cohort Study
Tetyana Kendzerska, Andrea S. Gershon, Gillian Hawker, George Tomlinson, and Richard S. Leung
Endobronchial Tuberculosis with Anthracofibrosis
Laura M. Paulin, Natalie E. West, Jason A. Akulian, and Brian T. Garibaldi

Bronchial Chloroma
Saadia A. Faiz, Nelson G. Ordonez, Rodolfo C. Morice, Lara Bashoura, and Carlos A. Jimenez

Neural Respiratory Drive and Ventilation in Patients with Chronic Obstructive Pulmonary Disease during Sleep
Yuan-Ming Luo, Bai-Ting He, Yin-Xin Wu, Hong Yuan, Jing Xu, John Moxham, and Michael Polkey

Nuclear Magnetic Resonance–based Metabolomics Discriminates Primary Ciliary Dyskinesia from Cystic Fibrosis
Paolo Montuschi, Debora Paris, Silvia Montella, et al.

Patients with Asthma Demonstrate Airway Inflammation after Exposure to Concentrated Ambient Particulate Matter
Neil E. Alexis, Yuh Chin T. Huang, Ana G. Rappold, Howard Kehrl, Robert Devlin, and David B. Peden,

European Respiratory Journal
July 1, 2014; 44 (1)

Editorials

Ensuring that the diagnosis of tuberculosis accelerates progress towards the Millennium Development Goals
Christy Hanson, Giovanni Sotgiu, and Robert Loddenkemper
Eur Respir J 2014 44:1-4
http://erj.ersjournals.com/content/44/1/1.extract

Good news about a bad subject: scientific evidence to help defeat multidrug/extensively drug-resistant tuberculosis
Giovanni Sotgiu and Mark Woodhead
Eur Respir J 2014 44:5-7
http://erj.ersjournals.com/content/44/1/5.extract

COPD in nonsmokers: the biomass hypothesis – to be or not to be?
Louisa Gnatiuc and Gaetano Caramori
Eur Respir J 2014 44:8-10
http://erj.ersjournals.com/content/44/1/8.extract

Viral, bacterial or both? Regardless, we need to treat infection in COPD
Tobias Welte and Marc Miravitlles
Eur Respir J 2014 44:11-13
http://erj.ersjournals.com/content/44/1/11.extract

Airway and systemic eosinophilia in asthma: does site matter?
Konstantinos Kostikas, Eleftherios Zervas, and Mina Gaga
Eur Respir J 2014 44:14-16
Oxidative stress in cystic fibrosis lung disease: an early event, but worth targeting?
Andreas Hector, Matthias Griese, and Dominik Hartl
Eur Respir J 2014 44:17-19

European Lung Corner

www.smokehaz.eu – a review of the evidence on smoking and lung health
Brian Ward
Eur Respir J 2014 44:20-22

Consensus Statement

Tuberculosis

Management of patients with multidrug-resistant/extensively drug-resistant tuberculosis in Europe: a TBNET consensus statement
Christoph Lange, Ibrahim Abubakar, Jan-Willem C. Alffenaar, et al., for the TBNET
Eur Respir J 2014 44:23-63
OPEN ACCESS ARTICLE
http://erj.ersjournals.com/content/44/1/23.abstract

Original Articles

Epidemiology

Prevalence and correlates of airflow obstruction in ~317 000 never-smokers in China
Margaret Smith, Liming Li, Mareli Augustyn et al., on behalf of the China Kadoorie Biobank collaborative group
Eur Respir J 2014 44:66-77
OPEN ACCESS ARTICLE
http://erj.ersjournals.com/content/44/1/66.abstract

COPD

Performance of the BODE index in patients with α1-antitrypsin deficiency-related COPD
Gabriel Thabut, Jean-François Mornex, Christophe Pison, et al.
Eur Respir J 2014 44:78-86
http://erj.ersjournals.com/content/44/1/78.abstract

COPD and respiratory infections

Human rhinovirus infection during naturally occurring COPD exacerbations
Siobhán N. George, Davinder S. Garcha, Alexander J. Mackay, et al.
Eur Respir J 2014 44:87-96
http://erj.ersjournals.com/content/44/1/87.abstract

Asthma

Importance of concomitant local and systemic eosinophilia in uncontrolled asthma
Florence Nicole Schleich, Anne Chevremont, Virginie Paulus et al.
Eur Respir J 2014 44:97-108
http://erj.ersjournals.com/content/44/1/97.abstract

Sleep
Sleep apnoea severity independently predicts glycaemic health in nondiabetic subjects: the ESADA study
Brian D. Kent, Ludger Grote, Maria R. Bonsignore, et al., on behalf of the European Sleep Apnoea Database collaborators
Eur Respir J 2014 44:130-139
http://erj.ersjournals.com/content/44/1/130.abstract

Zonisamide reduces obstructive sleep apnoea: a randomised placebo-controlled study
Davoud Eskandari, Ding Zou, Mahssa Karimi, Kaj Stenlög, Ludger Grote, and Jan Hedner
Eur Respir J 2014 44:140-149
http://erj.ersjournals.com/content/44/1/140.abstract

Pulmonary vascular diseases

Predicting the size of pulmonary arteriovenous malformations on chest computed tomography: a role for transthoracic contrast echocardiography
Eur Respir J 2014 44:150-159
http://erj.ersjournals.com/content/44/1/150.abstract

Respiratory infections

Prolonged shedding of rhinovirus and re-infection in adults with respiratory tract illness
Kalina T. Zlateva, Jutte J.C. de Vries, Frank E.J. Coenjaerts, et al., on behalf of the GRACE Study Group
Eur Respir J 2014 44:169-177
http://erj.ersjournals.com/content/44/1/169.abstract

Interstitial lung diseases

Lung transplantation in telomerase mutation carriers with pulmonary fibrosis
OPEN ACCESS ARTICLE
http://erj.ersjournals.com/content/44/1/178.abstract

Acute lung injury and critical care

Exhaled breath metabolomics as a noninvasive diagnostic tool for acute respiratory distress syndrome
Lieuwe D.J. Bos, Hans Weda, Yuanyue Wang, et al.
Eur Respir J 2014 44:188-197
http://erj.ersjournals.com/content/44/1/188.abstract

Scientific Assembly Update

Clinical highlights from the 2013 ERS Congress in Barcelona
Martijn A. Spruit, Maurizio Marvisi, Johan Coolen, et al.
Eur Respir J 2014 44:198-206
http://erj.ersjournals.com/content/44/1/198.abstract

Review

Microparticles and vascular dysfunction in obstructive sleep apnoea
Wojciech Trzepizur, Maria Carmen Martinez, Pascaline Priou, et al.
Eur Respir J 2014 44:207-216
http://erj.ersjournals.com/content/44/1/207.abstract

Series
Number 2 in the series “Challenges and Controversies in Thoracic Oncology”: Screening for lung cancer: time for large-scale screening by chest computed tomography
Dekel Shlomi, Ronny Ben-Avi, Gingy Ronen Balmor, Amir Onn, and Nir Peled
Eur Respir J 2014 44:217-238
http://erj.ersjournals.com/content/44/1/217.abstract

Agora

Research letters

The role of mepolizumab in atopic and nonatopic severe asthma with persistent eosinophilia
Hector Ortega, Geoffrey Chupp, Philip Bardin, et al.
Eur Respir J 2014 44:239-241
http://erj.ersjournals.com/content/44/1/239.extract

Between-visit variability of small airway obstruction markers in patients with asthma
Sherif Gonem, Steven Corkill, Amisha Singapuri, et al.
Eur Respir J 2014 44:242-244
http://erj.ersjournals.com/content/44/1/242.extract

Job strain and COPD exacerbations: an individual-participant meta-analysis
Eur Respir J 2014 44:247-251
OPEN ACCESS ARTICLE
http://erj.ersjournals.com/content/44/1/247.extract

HIV and multidrug-resistant tuberculosis: overlapping epidemics
Anna S. Dean, Matteo Zignol, Dennis Falzon, Haileyesus Getahun, and Katherine Floyd
Eur Respir J 2014 44:251-254
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Rapid diagnosis of tuberculosis using ex vivo host biomarkers in sputum
Martin O.C. Ota, Joseph F. Mendy, Simon Donkor, Toyin Togun, Mohammed Daramy, Marie P. Gomez, Novel N. Chegou, Abdou K. Sillah, Olumuyiwa Owolabi, Beate Kampmann, Gerhard Walzl, and Jayne S. Sutherland
Eur Respir J 2014 44:254-257
http://erj.ersjournals.com/content/44/1/254.extract

Serial testing using interferon-γ release assays in nursing students in India
Alice Zwerling, Madhukar Pai, Joy Sarojini Michael, and Devasahayam J. Christopher
Eur Respir J 2014 44:257-260
http://erj.ersjournals.com/content/44/1/257.extract

CHEST: July 2014; Volume 146, Number 1

Editorials

Lung Protective Ventilation in Donors: An Ounce of Prevention
Julia A. Klesney-Tait; Michael Eberlein

Better Outcomes From Pneumococcal Pneumonia: How Good Is Your Care?
Grant W. Waterer

Interstitial Lung Abnormalities in Rheumatoid Arthritis Are Common and Important
Aryeh Fischer; Gregory P. Cosgrove
The Need for Humanomics in the Era of Genomics and the Challenge of Chronic Disease Management
J. Mark FitzGerald; Iraj Poureslami

Second Opinion

Commentary

**Bronchial Thermoplasty: Reappraising the Evidence (or Lack Thereof)**
Vivek N. Iyer; Kaiser G. Lim

Original Research: Chest Infections

**Decrease in Mortality in Severe Community-Acquired Pneumococcal Pneumonia: Impact of Improving Antibiotic Strategies (2000-2013)**
Simone Gattarello; Bárbara Borgatta; Jordi Solé-Violán; et al.; for the Community-Acquired Pneumonia en la Unidad de Cuidados Intensivos II Study Investigators

**Soluble Major Histocompatibility Complex Class I-Related Chain B Molecules Are Increased and Correlate With Clinical Outcomes During Rhinovirus Infection in Healthy Subjects**
Aurica G. Telcian; Mihnea T. Zdrenghea; Gaetano Caramori; et al.

Original Research: Diffuse Lung Disease

**Functional Impact of a Spectrum of Interstitial Lung Abnormalities in Rheumatoid Arthritis**
Tracy J. Doyle; Paul F. Dellaripa; Kerri Batra; et al.

Original Research: Critical Care

**Thrombosis Prophylaxis and Mortality Risk Among Critically Ill Adults**
Craig M. Lilly; Xinggang Liu; Omar Badawi; Christine S. Franey; Ilene H. Zuckerman

**Ventilator-Associated Pneumonia During Weaning From Mechanical Ventilation: Role of Fluid Management**
Armand Mekontso Dessap; Sandrine Katsahian; Ferran Roche-Campo; et al.

Original Research: Sleep Disorders

**OSA Is Common and Independently Associated With Hypertension and Increased Arterial Stiffness in Consecutive Perimenopausal Women**
Rodrigo P. Pedrosa; Isly M. L. Barros; Luciano F. Drager; et al.

**Left Atrial Size, Chemosensitivity, and Central Sleep Apnea in Heart Failure**
Andrew D. Calvin; Virend K. Somers; Bruce D. Johnson; Christopher G. Scott; Lyle J. Olson

Original Research: COPD

**Determinants of Gait Speed in COPD**
Craig Karpman; Zachary S. DePew; Nathan K. LeBrasseur; Paul J. Novotny; Roberto P. Benzo
Clinical Application of the COPD Assessment Test: Longitudinal Data From the COPD History Assessment in Spain (CHAIN) Cohort
Juan P. de Torres; Jose M. Marin; Cristina Martinez-Gonzalez; et al.; for the COPD History Assessment in Spain (CHAIN) Cohort

Original Research: Signs and Symptoms of Chest Disease

Attentional Modulation of Reflex Cough
Thomas Janssens; Mitchell Silva; Paul W. Davenport; Ilse Van Diest; Lieven J. Dupont; Omer Van den Bergh

Original Research: Genetic and Developmental Disorders

Pulmonary Medication Adherence and Health-care Use in Cystic Fibrosis
Alexandra L. Quittner; Jie Zhang; Maryna Marynchenko; et al.

Effects of Ivacaftor in Patients With Cystic Fibrosis Who Carry the G551D Mutation and Have Severe Lung Disease
Peter J. Barry; Barry J. Plant; Arjun Nair; et al.
_Chest._ 2014;146(1):152-158.

Original Research: Pulmonary Vascular Disease

Causes of Pulmonary Hypertension in the Elderly
Meredith E. Pugh; Lakshmi Sivarajan; Li Wang; Ivan M. Robbins; John H. Newman; Anna R. Hemnes
_Chest._ 2014;146(1):159-166.

Original Research: Lung Cancer

Impact of Histologic Subtyping on Outcome in Lobar vs Sublobar Resections for Lung Cancer: A Pilot Study
Francine R. Dembitzer; Raja M. Flores; Michael K. Parides; Mary Beth Beasley

Evidence-Based Medicine

Methodologies for the Development of CHEST Guidelines and Expert Panel Reports
Sandra Zelman Lewis; Rebecca Diekemper; Joseph Ornelas; Kenneth R. Casey

Recent Advances in Chest Medicine

Whooping Cough in 2014 and Beyond: An Update and Review
Joshua D. Hartzell; Jason M. Blaylock

Contemporary Reviews in Critical Care Medicine

Mechanical Ventilatory Support in Potential Lung Donor Patients
Ruchi Bansal; Adebayo Esan; Dean Hess; Luis F. Angel; Stephanie M. Levine; Tony George; Suhail Raoof

Contemporary Reviews in Sleep Medicine

Sleep-Disordered Breathing in Hypertrophic Cardiomyopathy: Challenges and Opportunities
Chest Imaging and Pathology for Clinicians

**A 70-Year-Old Woman With Dyspnea and Chest Pain**
Aarthi Ganesh; Michael Flores; Isabel Oliva; Gordon E. Carr

Pulmonary, Critical Care, and Sleep Pearls

**A 26-Year-Old Man With a Slowly Growing Heterogeneous Intrathoracic Mass**
Julianne Nichols; Natalie Berger; Vanessa Yap; Daniel Fusco; Debapriya Datta

Articles from Other Journals

**Epidemiology and clinical management of Legionnaires' disease.**

An early rehabilitation intervention to enhance recovery during hospital admission for an exacerbation of chronic respiratory disease: randomised controlled trial
Neil J Greening, Johanna E A Williams, Syed F Hussain, et al.
*BMJ* 2014;349:g4315
http://www.bmj.com/content/349/bmj.g4315?etoc=

**Educational, supportive and behavioural interventions to improve usage of continuous positive airway pressure machines in adults with obstructive sleep apnoea.**
Wozniak DR, Lasserson TJ, Smith I.

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