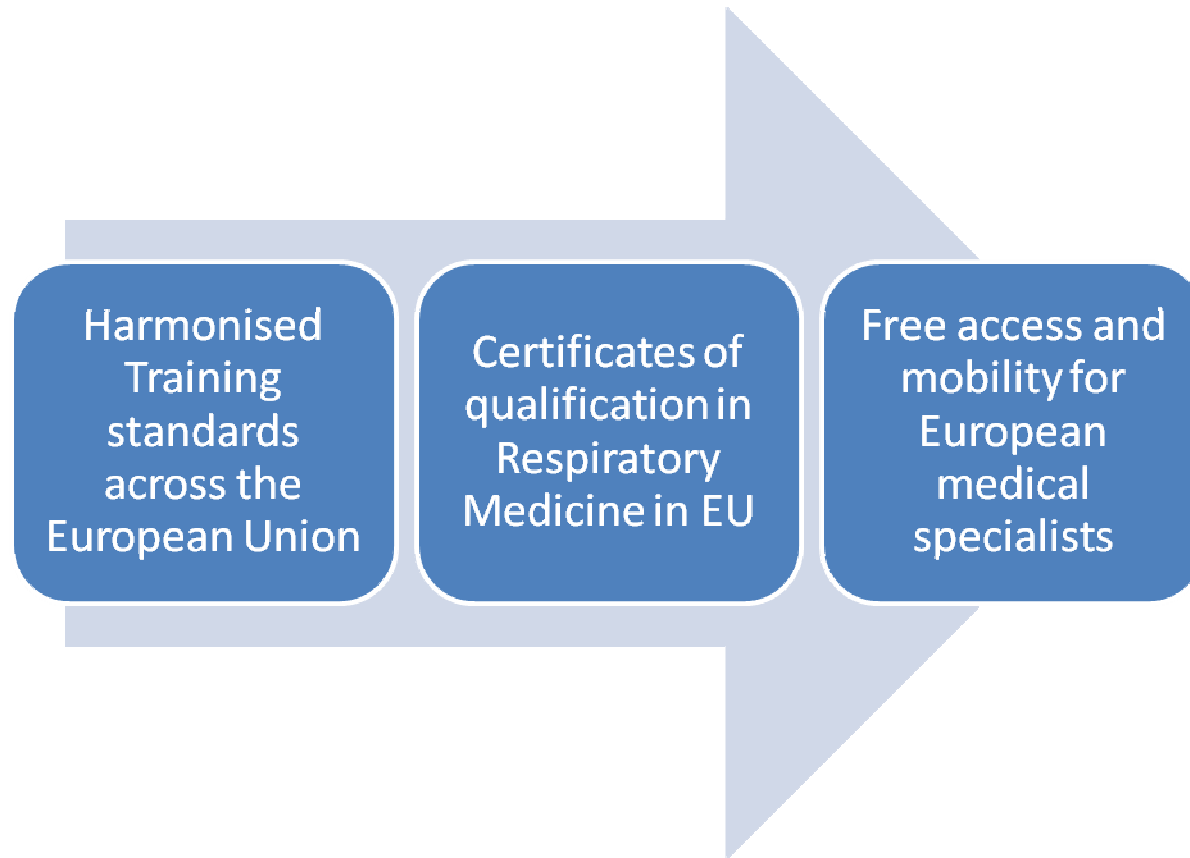




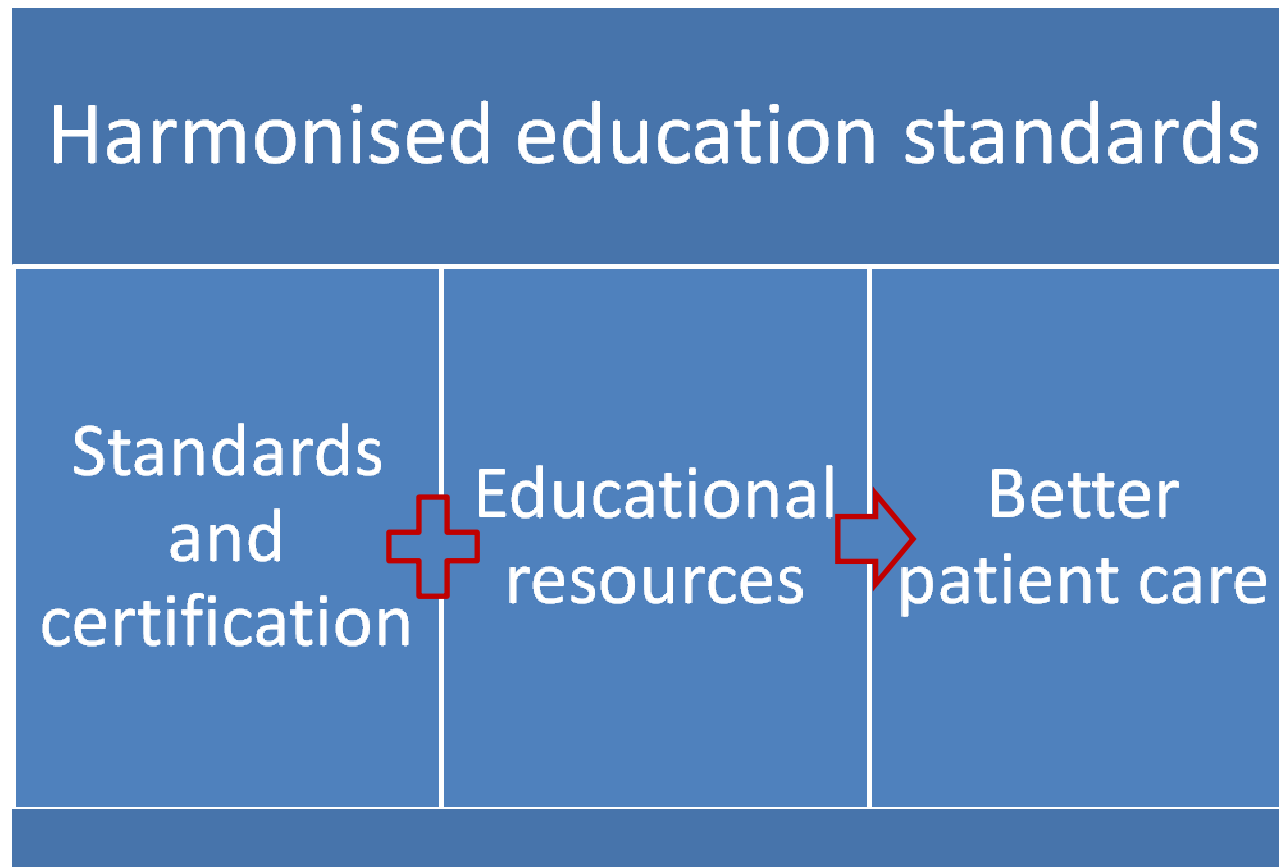
# THE HERMES INITIATIVE: HARMONISED EDUCATION IN RESPIRATORY MEDICINE FOR EUROPEAN SPECIALISTS

**Mina Gaga**  
**Secretary General**  
**European Respiratory Society**

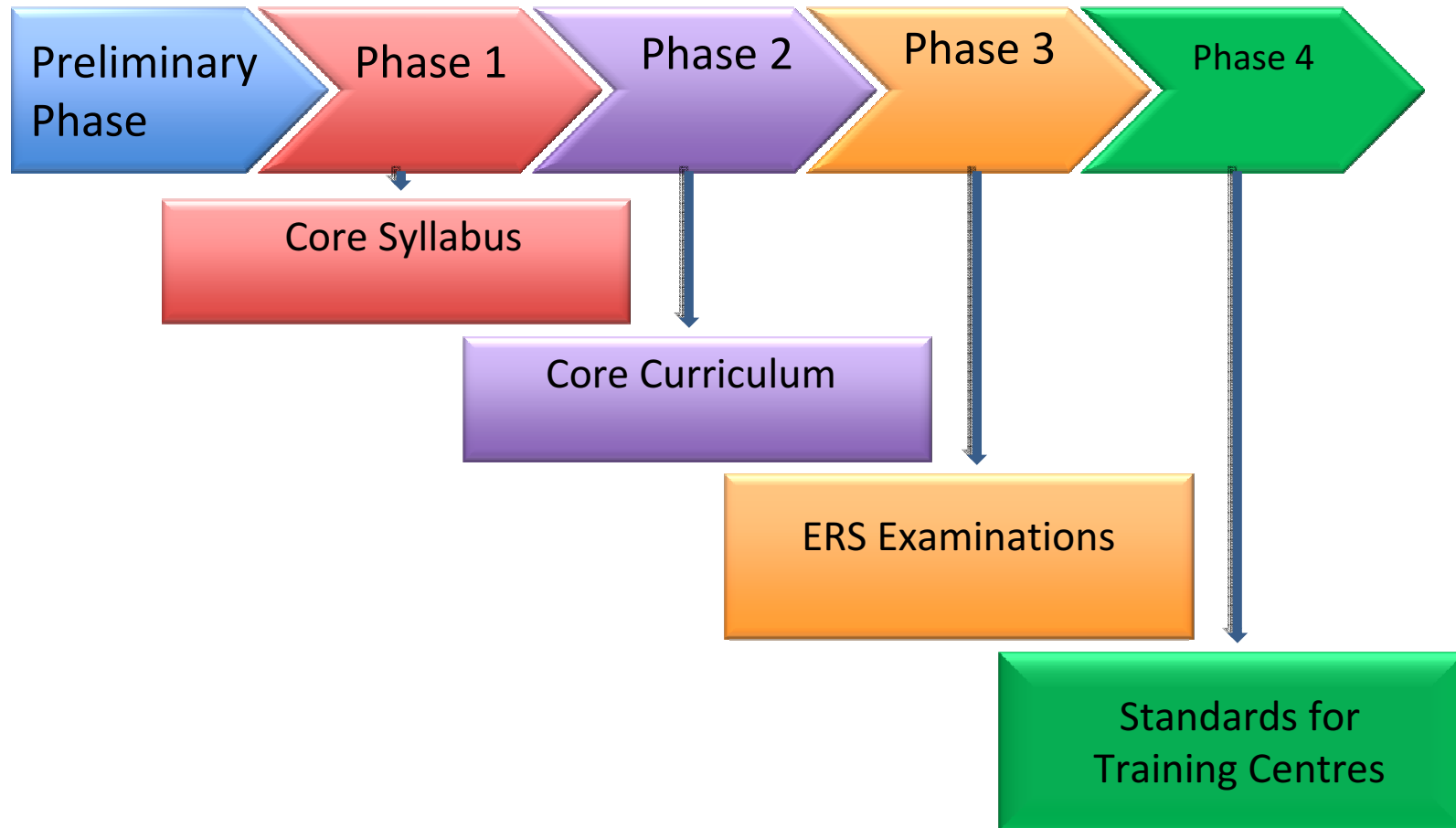
## MISSION OF THE HERMES INITIATIVE



## GOALS OF THE HERMES INITIATIVE



# HERMES Project Phases



# METHODOLOGY



## Task Force to define Syllabus

- Task Force meetings facilitated and supported by the ERS Headquarters Staff
- Experts suggest items to be considered



## Modified Delphi Surveys

- Consultation with experts on content of standards through surveys
- 2 Delphi rounds
- Designed to lead to consensus



## Plenary Meeting

- after the second Delphi round allowing experts to discuss issues raised and elaborate their views.

# HERMES PLENARY MEETING - PARTICIPANTS

- *Munich, 8 May 2006: Task Force members and national respondents met to discuss the outcomes of Delphi rounds 1 and 2*



## SYLLABUS SECTIONS

- **A. Structure and function of the respiratory system;**
- **B. Knowledge of respiratory diseases;**
- **C. Symptoms and signs;**
- **D. Diagnostic procedures including monitoring techniques;**
- **E. Treatment modalities and prevention measures;**
- **F. Core generic abilities;** ethics, communication, research, teaching, audit, literature appraisal
- **G. Competence in fields shared with other specialties;** ICU, HDU
- **H. Knowledge of associated fields relevant to adult respiratory medicine;** surgery, radiotherapy
- **I. Further areas relevant to respiratory medicine;** epidemiology, statistics, health economics, legal issues

## DEFINITIONS USED IN THE SYLLABUS

- **The following definitions have been used in the syllabus:**
    - Optional items :It is recommended that this item be included in the core syllabus but is not mandatory.
    - Mandatory items: It is required that this item be included in the core syllabus.
    - Level 1: awareness sufficient to recognise and know when to refer.
    - Level 2: knowledge sufficient to manage with supervision (or refer).
    - Level 3: advanced knowledge to manage (or refer).
- The HERMES syllabus represents the level which should be reached by young doctors who have just finished training as specialists in adult respiratory medicine.

# HERMES SYLLABUS: EXAMPLE 1

<b>HERMES European Core Syllabus in Adult Respiratory Medicine</b>	<i>Opt</i>	<i>Man</i>	<i>Level 1</i>	<i>Level 2</i>	<i>Level 3</i>
<b>Module B.6: Occupational and environmental diseases</b>					
B.6.1 occupational asthma		●			●
B.6.2 reactive airway dysfunction syndrome		●			●
B.6.3 pneumoconiosis and asbestos-related disease		●			●
B.6.4 hypersensitivity pneumonitis		●			●
B.6.5 dust and toxic gas inhalation disease		●			●
B.6.6 indoor pollution related disease		●			●
B.6.7 outdoor pollution related disease		●			●
B.6.8 smoking related disease		●			●
B.6.9 high-altitude disease		●		●	
B.6.10 diving-related disease		●		●	
<i>See also modules: B.1, B.2, B.3, B.4, B.7, B.9, B.10, B.11, B.17, B.18</i>					

# HERMES SYLLABUS: EXAMPLE 2

HERMES European Core Syllabus in Adult Respiratory Medicine	Opt	Man	Level 1	Level 2	Level 3
<b>D.2. Other procedures</b>					
D.2.1 Blood tests and serology relevant to respiratory medicine - <i>interpretation</i>		●			●
D.2.2 analysis of exhaled breath components including NO, CO and breath condensate		●		●	
D.2.3 sputum induction		●			●
D.2.4 sputum analysis		●			●
D.2.5 tuberculin skin testing		●			●
D.2.6 allergy skin testing		●			●
D.2.7 pleural ultrasound imaging		●			●
D.2.8 thoracentesis		●			●
D.2.9 closed pleural needle biopsy		●			●
D.2.10 pleuroscopy (medical thoracoscopy)		●		●	
D.2.11 flexible bronchoscopy		●			●
D.2.12 transbronchial lung biopsy		●			●
D.2.13 transbronchial needle aspiration		●			●
D.2.14 endobronchial ultrasound	●*			●	
D.2.15 broncho-alveolar lavage		●			●

\* The Task Force feels these items should be re-evaluated in the near future.

# HERMES SYLLABUS: EXAMPLE 3

HERMES European Core Syllabus in Adult Respiratory Medicine	Opt	Man	Level 1	Level 2	Level 3
<b>E. Treatment modalities and prevention measures</b>					
E.1.1 systemic / inhaled drug therapy		●			●
E.1.2 chemotherapy		●			●
E.1.3. other systemic anti-tumour therapy		●			●
E.1.4 immunotherapy including de- / hyposensitisation		●		●	
E.1.5 oxygen therapy		●			●
E.1.6 ventilatory support (invasive / non-invasive / CPAP)		●			●
E.1.7 cardiopulmonary resuscitation		●			●
E.1.8 assessment for anaesthesia / surgery		●			●
E.1.9 endobronchial therapies	●			●	
E.1.10 intercostal tube drainage		●			●
E.1.11 pleurodesis		●			●
E.1.12 home care		●			●
E.1.13 palliative care		●			●
E.1.14 pulmonary rehabilitation		●			●
E.1.15 nutritional interventions		●		●	
E.1.16 surfactant therapy	●			●	
E.1.17 gene therapy	●			●	
E.1.18 principles of stem cell therapy	●		●		
E.1.19 smoking cessation		●			●
E.1.20 vaccination and infection control		●			●
E.1.21 other preventative measures		●			●

ath counts

# CURRICULUM- SLEEP DISORDERS

## Knowledge

- Definition, classification and aetiology of obstructive sleep apnoea syndrome (OSA), central sleep apnoea syndrome (CSA), periodic breathing (PB), obesity hypoventilation syndrome (OHS), periodic limb movement disorder and parasomnias
- Epidemiology and pathophysiology of OSA, CSA, PB, OHS
- Epidemiology, pathophysiology and aetiology of daytime hypersomnolence
- Relevant investigations (including screening overnight oximetry and sleep studies (respiratory polygraphy and polysomnography))
- Complications of OSA, CSA, PB, and OHS
- Methods of treatment (including ventilatory support and CPAP)
- Pharmacology of drugs used

## Skills

- Application of the above knowledge
- Non-invasive imaging modalities: chest x-ray, cephalometry, CT, MR
- Pulmonary function tests
- Sleep studies (screening overnight oximetry, respiratory polygraphy and polysomnography)
- Management of SRD (including treatment with CPAP)
- Organisation of services for SRD

## Behaviour and attitudes

- Multidisciplinary team approach

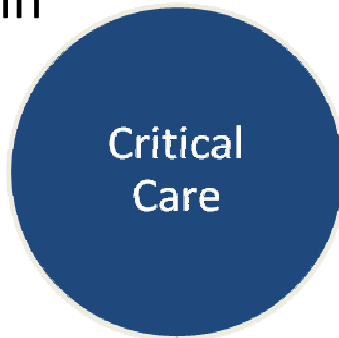
# HERMES FAMILY PICTURE

Accreditation process  
to accredit Training  
Centres 2011 - 2012

New project



Syllabus to be  
published in  
2012



Inaugural  
Examination  
2011



Syllabus  
published  
September  
2011

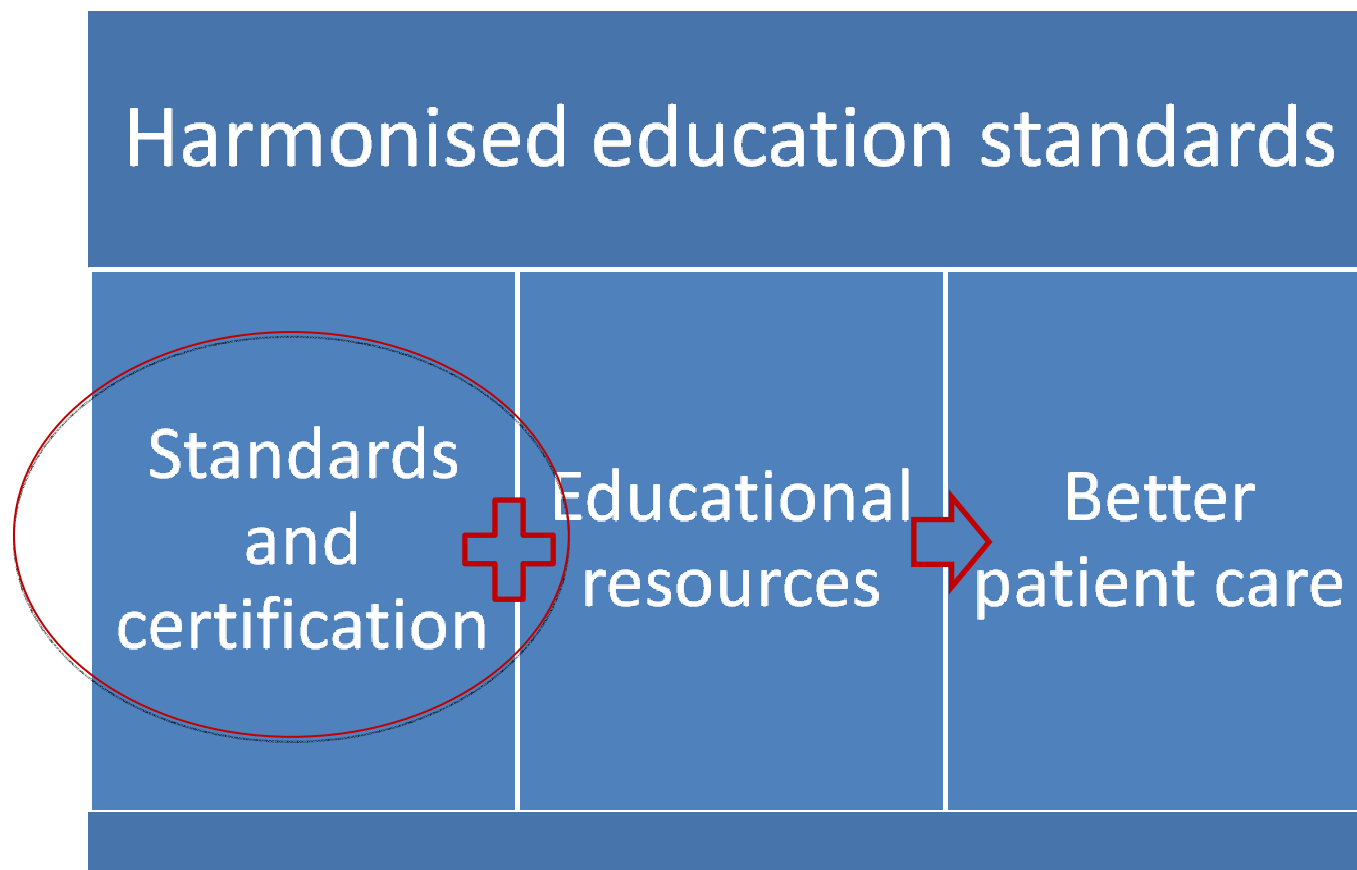


• First Spirometry  
Train the Trainer  
Congress 2012



# EUROPEAN EXAMINATION IN ADULT RESPIRATORY MEDICINE

## GOALS OF THE HERMES INITIATIVE



## *European Examination: Why?*

- Although the European Union allows freedom of movement across member states and the freedom to reside and work in different states, there are no officially agreed common standards for medical specialty training.
- European standards should facilitate free movement of respiratory specialists
- Better harmonised training and education programmes should raise the level of qualifications throughout Europe
- Benefit patients and the whole healthcare system



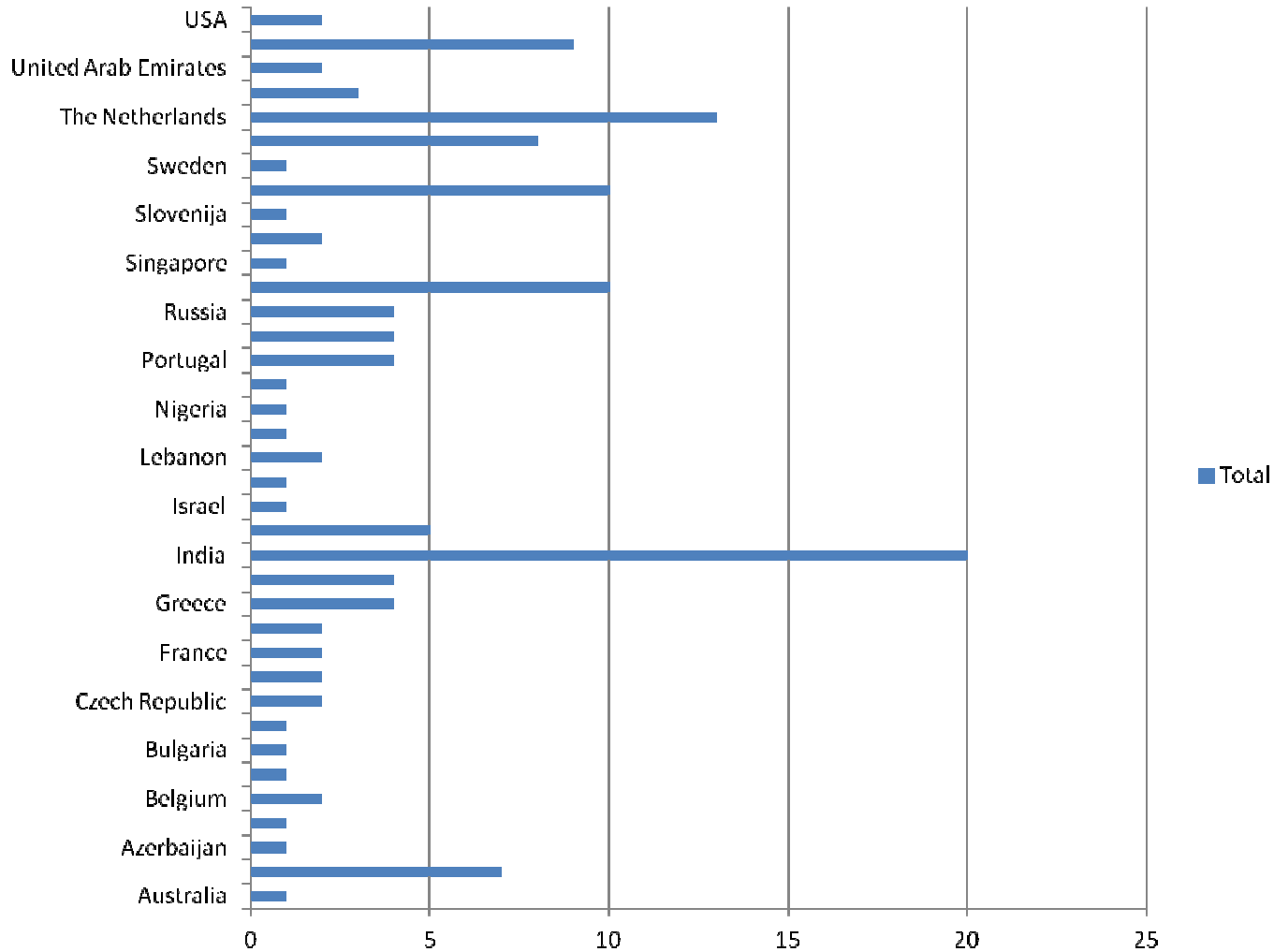
# 2011 EXAMINATIONS STATISTICS

**Saturday, September 24, 2011**  
**ERS Annual Congress Amsterdam**

## EXAMINATION STATISTICS

EXAM	REGISTERED	ONSITE
Diploma	116	101
Self-Assessment	3	3
In-training	18	18
<b>ADULT TOTALS</b>	<b>137</b>	<b>122</b>
Diploma	23	21
Self-Assessment	5	5
In-training	4	4
<b>PAEDIA TOTALS</b>	<b>32</b>	<b>30</b>
<b>TOTAL PARTICIPANTS</b>	<b>169</b>	<b>152</b>

# ADULT EXAMINATION COUNTRY PROFILES OF PARTICIPATION



## TOP 5 COUNTRIES

India	20
The Netherlands	13
Saudi Arabia	10
Spain	10
United Kingdom	9

## COUNTRIES REPRESENTED

37 countries represented

EU 24

Non-EU 13

Africa 2

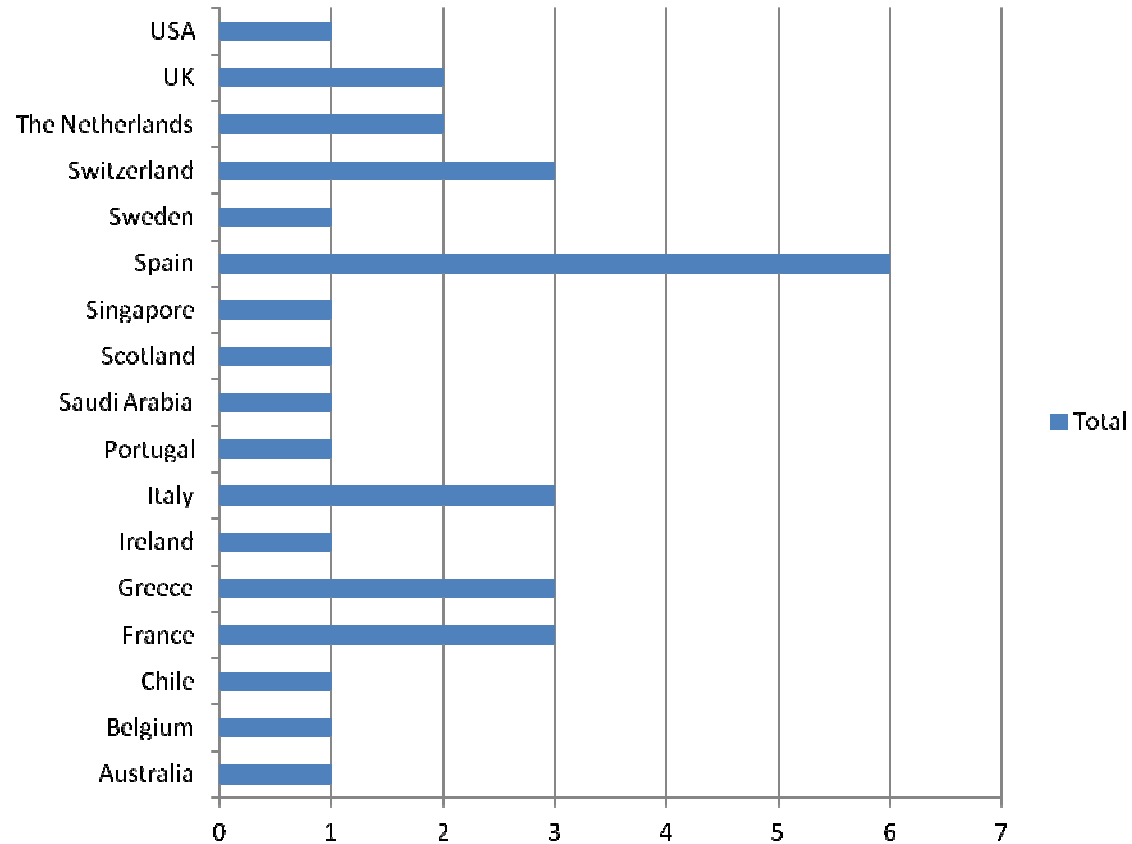
Asia 4

Americas 2

Middle East 5

# ERS PAEDIATRIC EXAMINATION COUNTRY PROFILES OF PARTICIPATION

## Total Participants by Country



# MODELS OF COUNTRY COLLABORATIONS

**Adoption of the HERMES Examination in various countries**

## SWITZERLAND: KNOWLEDGE PART FOR EXIT EXAMINATION

- **continuing knowledge part exit examination since 2008**
- **future adoption of a local intraining examination**

## NETHERLANDS: IN-TRAINING ASSESSMENT

- **In-training assessment pilot October 8, 2010 in Utrecht**
- **This year 129 intraining participants on October 8, 2011 in Utrecht**
- **yearly in-training examination**
- **possible exit examination**
- **future recertification examination**

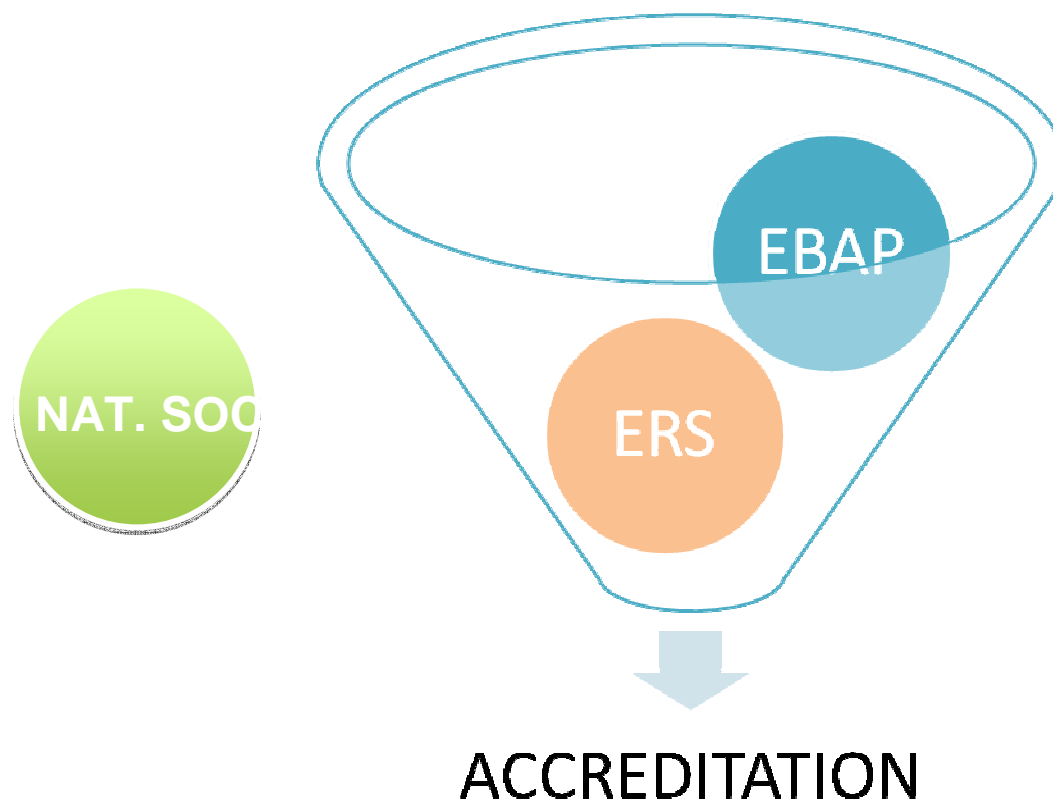
## AUSTRIA: LEGALLY EQUIVALENT TO NATIONAL EXIT EXAMINATION

- **Since June 2010, the HERMES examination was declared legally equivalent to the national examination**
- **Austrian Society of Pneumology encourages all trainees to pass the HERMES examination as first choice for exit**

# TRAINING CENTRE ACCREDITATION

## Next Steps

# COLLABORATIVE MODEL



## Step 1: Qualification for Accreditation

Qualification based on ERS Criteria for Accreditation Document

- Training Centres apply to EBAP supplying all necessary information
- EBAP qualifies those training centres who implement criteria at an ERS level as stipulated in the guidelines
- Subject to an application fee
- EBAP notifies the Training centre either of their qualification to continue to Step 2 or alternatively provide recommendations for improvement

## Step 2 – Visitation and Accreditation

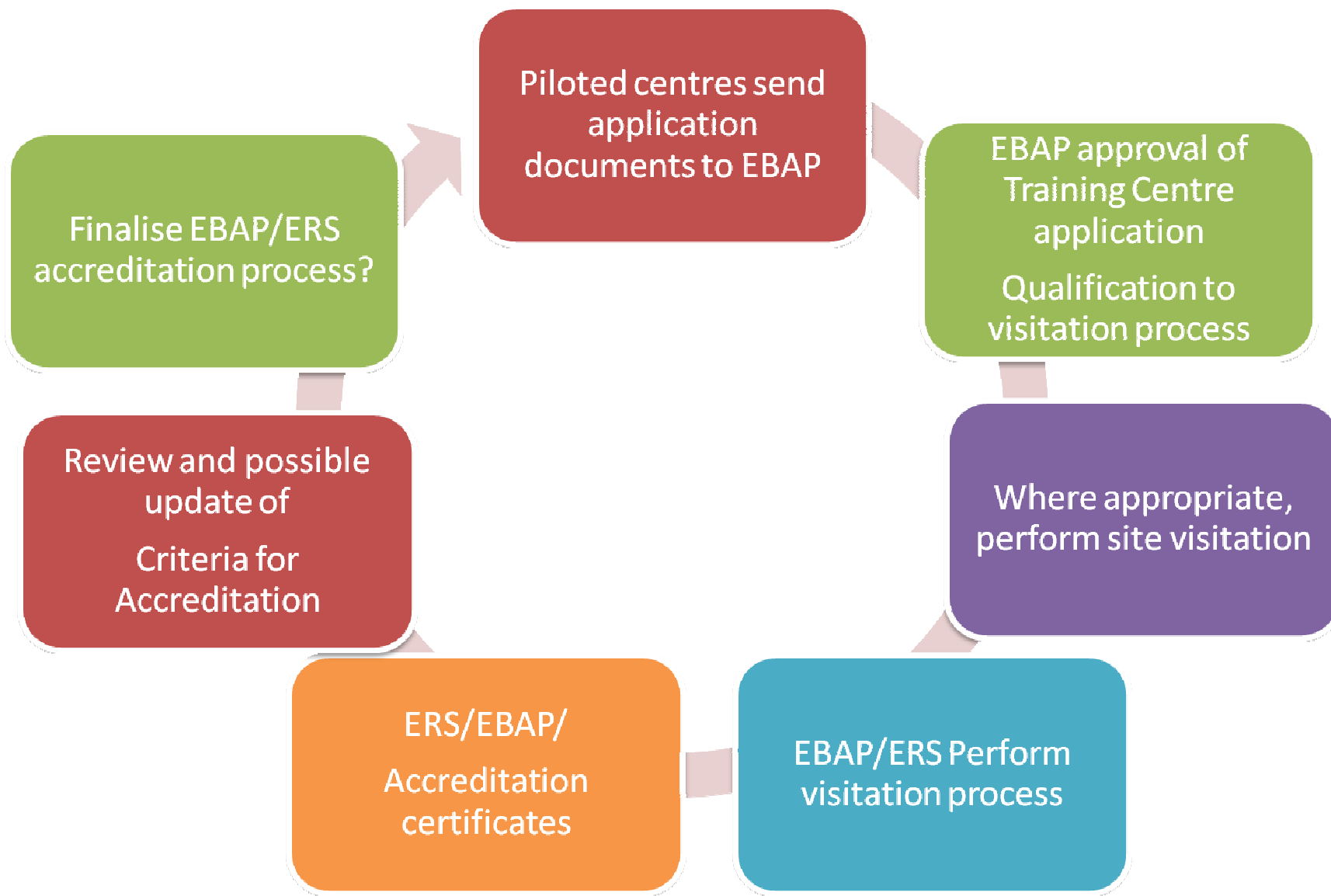
Accreditation based on monitoring and implementation of ERS criteria for accreditation

- Offer accreditation to those training centres who have implemented ERS criteria and been monitored through site visitation
- Subject to accreditation fee, cost of visitation covered by the training centre
- Centres receive accreditation certificate
- ERS and EBAP acknowledged on certificate



ERS

# EBAP/ERS ACCREDITATION PILOT PROCESS





# HERMES PUBLICATIONS

# GOALS OF THE HERMES INITIATIVE

Harmonised education standards

Standards  
and  
certification



Educational  
resources

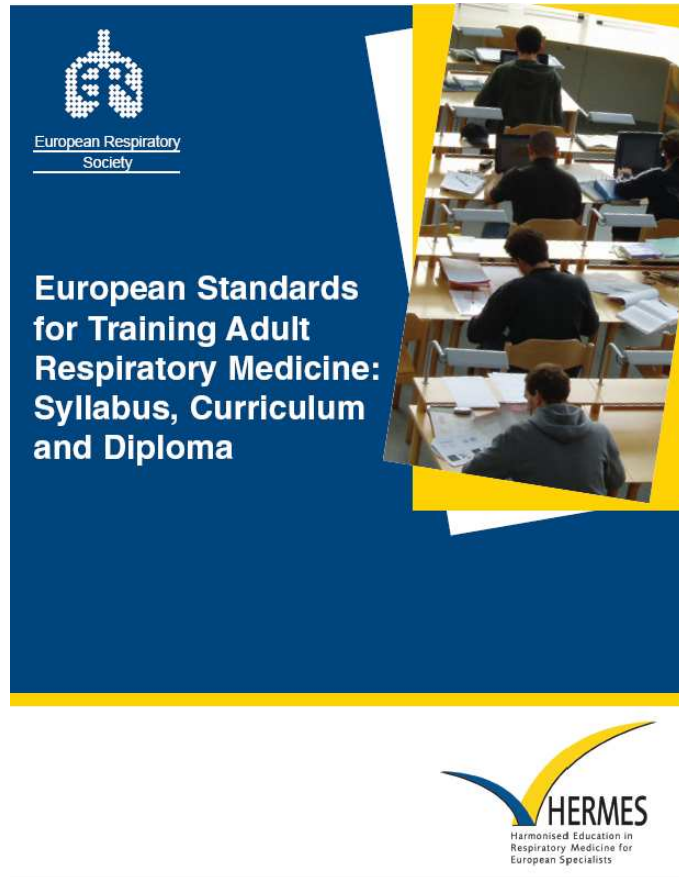


Better  
patient care

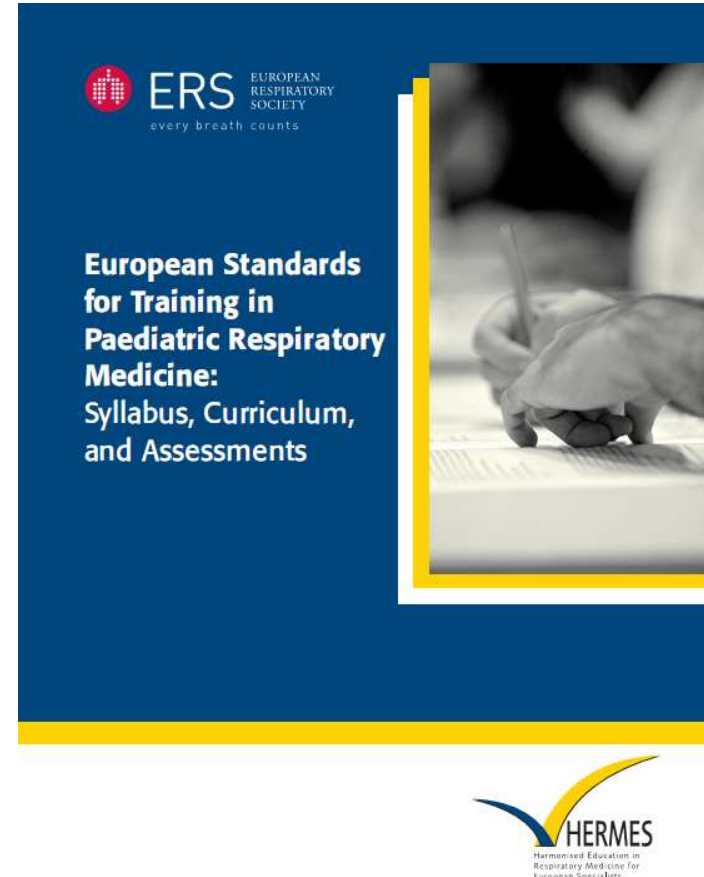


# HERMES Publications

## HERMES Adult Booklet

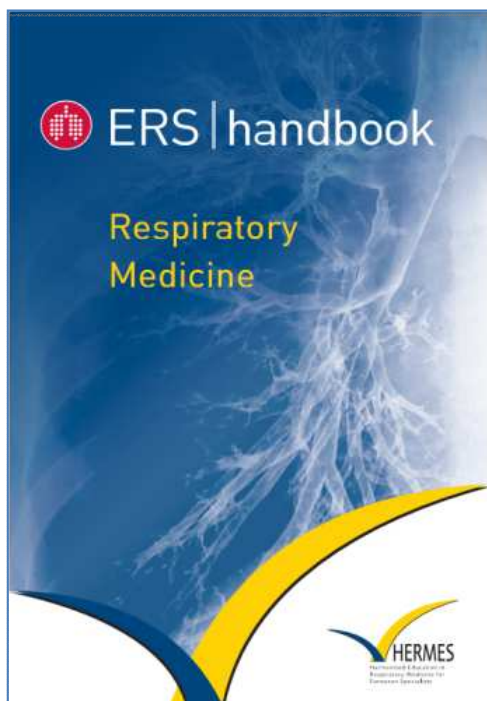


## HERMES Paediatric Booklet





# HERMES Publications



## **HERMES Handbook of Respiratory Medicine**

**Chief Editors: Paolo Palange, Anita Simonds**

**Second edition 2013**

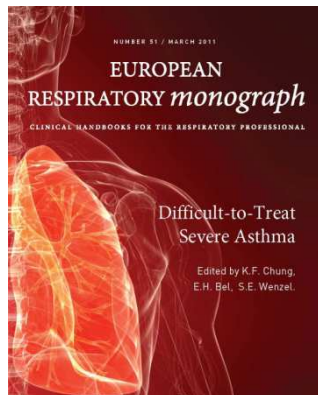


# Educational Publications



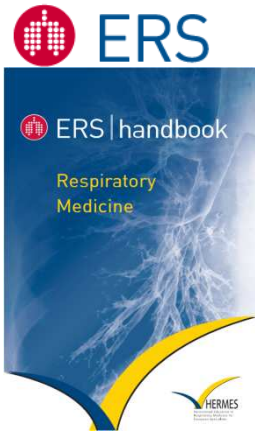
Breathe

Chief Editor: Leif Bjermer



Monograph

Chief Editor: Tobias Welte



## New Educational Publications

### The ERS Handbook Series

#### **NEW: The ERS Handbook of Respiratory Sleep Medicine**

Chief Editors: Wilfred de Backer  
Anita Simonds

Launch during ERS Congress, Vienna, 2012

#### **NEW: The ERS MCQ Handbook in Adult Respiratory Medicine**

Chief Editors: Konrad Bloch  
Anita Simonds  
Paolo Palange

Launch during ERS Congress, Vienna, 2012

THANK YOU FOR YOUR ATTENTION





european respiratory society every breath counts

[ersnet.org](http://ersnet.org)