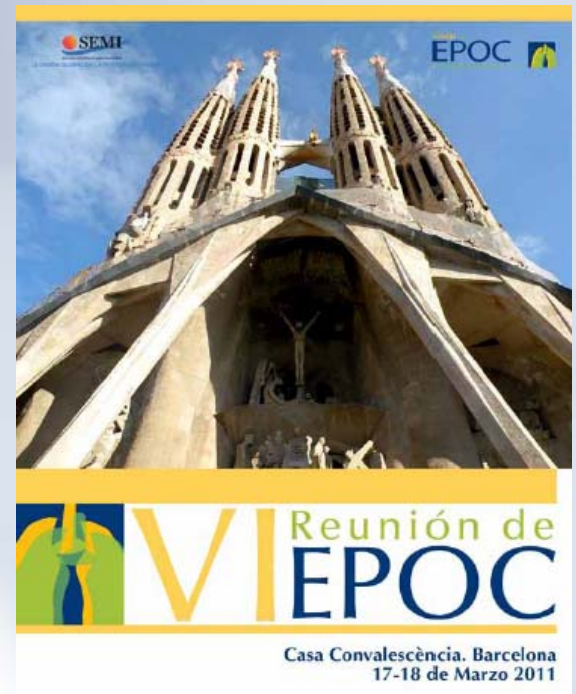


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ACTUALIZACION BIBLIOGRAFICA EN EPOC.

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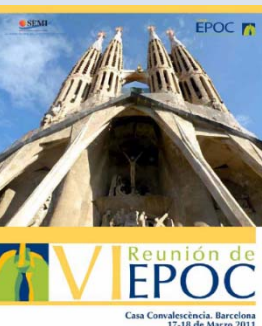
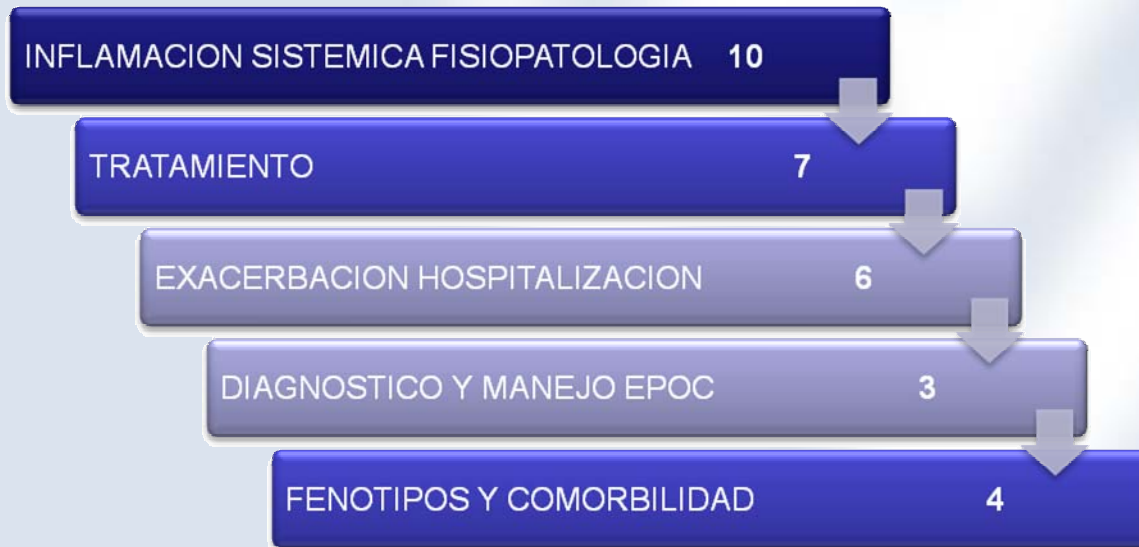
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MANEJO AGUDIZACIÓN

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Thorax 2011;66:43-48 doi:10.1136/thx.2010.153114

Chronic obstructive pulmonary disease

Original article

Acidosis, non-invasive ventilation and mortality in hospitalised COPD exacerbations

C M Roberts^{1,2}, R A Stone^{1,3}, R J Buckingham¹, N A Pursey¹, D Lowe¹ On behalf of the National Chronic Obstructive Pulmonary Disease Resources and Outcomes Project (NCROP) implementation group

Abstract

Background Reports of non-invasive ventilation (NIV) use in clinical practice reveal higher mortality rates than in corresponding randomised clinical trials.

Aim To explore factors related to chronic obstructive pulmonary disease (COPD) admissions and NIV use that may explain some of the previously reported high mortality rates.

Methods National UK audit of clinical care of consecutive COPD admissions from March to May 2008. Retrospective case note audit with prospective case ascertainment. Participating units completed a web-based audit proforma of process and outcomes of clinical care.

Results 232 hospital units collected data on 9716 patients, mean age 73, 50% male. 1678 (20%) of those with gases recorded on admission were acidotic and another 6% became acidotic later. 1077 patients received NIV, 55% had a pH<7.26 and 49% (305/618) had or were still receiving high flow oxygen. 30% (136/453) patients with persisting respiratory acidosis did not receive NIV while 11% (15/131) of acidotic admissions had a pure metabolic acidosis and did. Hospital mortality was 25% (270/1077) for patients receiving NIV but 39% (86/219) for those with late onset acidosis and was higher in all acidotic groups receiving NIV than those treated without. Only 4% of patients receiving NIV who died had invasive mechanical ventilation.

Conclusions COPD admissions treated with NIV in usual clinical practice were severely ill, many with mixed metabolic acidosis. Some eligible patients failed to receive NIV, others received it inappropriately. NIV appears to be often used as a ceiling of treatment including patient groups in whom efficacy of NIV is uncertain. The audit raises concerns that challenge the respiratory community to lead appropriate clinical improvements across the acute sector.



MANEJO AGUDIZACIÓN

La ventilación no invasiva (VMNI) presenta evidencia científica en el tratamiento de la acidosis respiratoria Aguda en la exacerbación de la EPOC.

En el 2003 se realizó una auditoría en el Reino Unido que valoraba el uso de la VMNI en los pacientes EPOC en la práctica clínica.

En este estudio se realiza una nueva auditoría, realizada en el 2008, en relación al uso de la VMNI en los pacientes EPOC.

Se recogen 60 pacientes atendidos de forma consecutiva. Se realiza un seguimiento de 90 días posteriores al ingreso hospitalario. Variables: gasometría arterial, uso de VMNI y mortalidad.

9716 pacientes. 73 años. 51% hombres. FEV1% 42% (53% datos).

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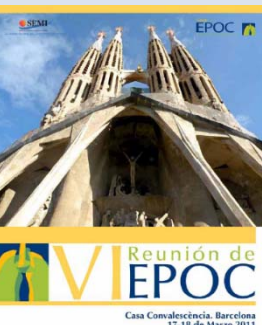
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**CONSORCI SANITARI
DEL MARESME**

MANEJO AGUDIZACIÓN

GASOMETRIA ARTERIAL

87% pacientes (20% acidosis en el ingreso)

Acidosis respiratoria en el ingreso, 45% VMNI.

50% oxigenoterapia (30% > 28%/4lx'). Alto flujo oxígeno asociado a VMNI.

VMNI

12% pacientes recibieron soporte ventilatorio (VMNI/VMI) .

70% pacientes con acidosis respiratoria recibieron VMNI.

8% de los pacientes con acidosis en el ingreso tenían una paCO_2 normal (acidosis metabólica)

MORTALIDAD

Mortalidad hospitalaria en los pacientes VMNI 25%.

Mortalidad: frecuencia respiratoria, bicarbonato bajo.

Pacientes con acidosis, mortalidad 26% con VMNI y 14% sin VMNI.

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TRATAMIENTO

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Thorax 2010;65:1086-1091 doi:10.1136/thx.2010.139113

Chronic obstructive pulmonary disease

Original article

QVA149 demonstrates superior bronchodilation compared with indacaterol or placebo in patients with chronic obstructive pulmonary disease

Jan A van Noord¹, Roland Buhl², Craig LaForce³, Carmen Martin⁴, Francis Jones⁴, Michael Dolker⁵, Tim Overend⁴



Abstract

Background This randomised, double-blind, placebo controlled, four-period crossover study assessed the efficacy and safety of once-daily QVA149, a dual bronchodilator consisting of the long-acting β_2 -agonist indacaterol and the long-acting muscarinic antagonist glycopyrronium (NVA237), in patients with moderate to severe chronic obstructive pulmonary disease (COPD).

Methods Patients (N=154) were randomly assigned to receive QVA149 (indacaterol/NVA237) 300/50 μ g, indacaterol 300 μ g, indacaterol 600 μ g, or placebo, once daily for 7 days with a 7-day washout period between each treatment. The primary endpoint was trough forced expiratory volume in 1 s (FEV₁) (mean of 23 h 15 min and 23 h 45 min post-dose values) on day 7. Other endpoints included trough FEV₁ on day 1, individual time point FEV₁ and monitoring and recording of all adverse events.

Results A total of 135 (87.7%) patients completed the study (all randomly assigned patients: mean age 61.7 years, 61.4% male, post-bronchodilator FEV₁ 52.2% predicted, FEV₁/forced vital capacity 47.6%). The estimated treatment difference (95% CI) for trough FEV₁ on day 7 between QVA149 and placebo was 226 ml (192 to 260; p<0.001). The estimated treatment difference between QVA149 and indacaterol 300 and 600 μ g was 123 ml (89 to 157; p<0.001) and 117 ml (83 to 150; p<0.001), respectively. The improvements in mean trough FEV₁ exceeded the predefined minimal clinically important differences of 100–140 ml for QVA149 versus placebo and indacaterol. Similar results were observed on day 1. All treatments were well tolerated.

Conclusions QVA149 demonstrated rapid and sustained bronchodilation with significant improvements compared with indacaterol monotherapy and placebo in patients with COPD.

Clinical trial registration NCT00570778.

TRATAMIENTO

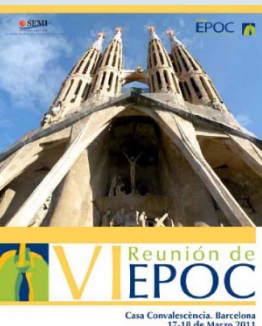
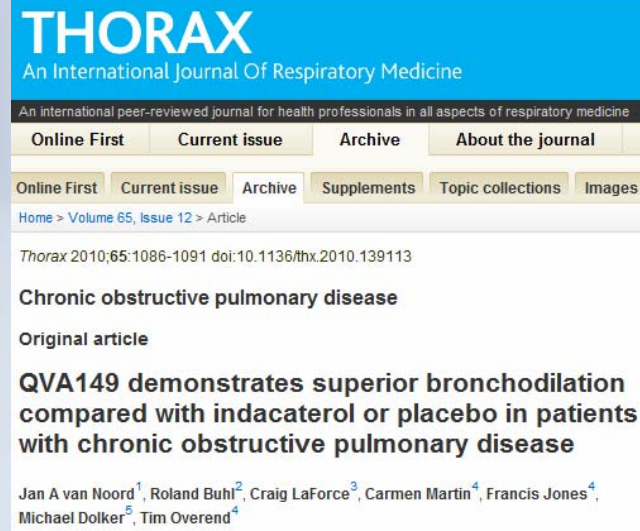
Mayor broncodilatación en la combinación (LABA/LAMA)

La combinación de LABA y LAMA de unidosis podría dar mejoría más allá de 24 horas.

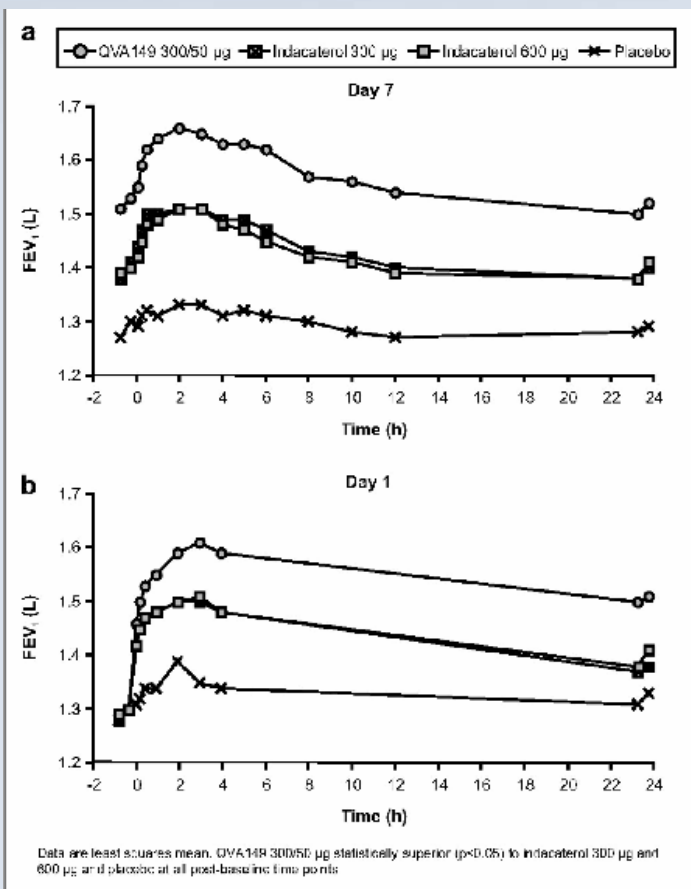
QVA149 es una combinación de dos broncodilatadores de 24-h, LABA (indacaterol) y LAMA (NVA237).

Objetivo: efecto broncodilatador y seguridad en pacientes EPOC moderada-severa.

Pacientes >40 años, EPOC moderada-severa, H^a tabaquismo 10 paq/año.
Criterios de exclusión: OCD, hospitalización 6 semanas previas, infección respiratoria, historia de asma.



TRATAMIENTO



Thorax 2010;65:1086-1091 doi:10.1136/thx.2010.139113

Chronic obstructive pulmonary disease

Original article

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Thorax doi:10.1136/thx.2010.154484

Chronic obstructive pulmonary disease

Identification and prospective validation of clinically relevant chronic obstructive pulmonary disease (COPD) subtypes

Judith Garcia-Aymerich^{1,2,3,4}, Federico P Gómez^{5,6}, Marta Benet^{1,2,4}, Eva Farrero⁷,
Xavier Basagaña^{1,2,4}, Àngel Gayete⁸, Carles Paré⁹, Xavier Freixa⁹, Jaume Ferrer^{6,10},
Antoni Ferrer^{2,6,11,16}, Josep Roca^{5,6}, Juan B Gáldiz¹², Jaume Sauleda^{6,13,14},
Eduard Monsó^{6,11,15}, Joaquim Gea^{2,3,6,16}, Joan A Barberà^{5,6}, Àlvar Agustí^{5,6,14},
Josep M Antó^{1,2,3,4} on behalf of the PAC-COPD Study Group



Abstract

Background Chronic obstructive pulmonary disease (COPD) is increasingly considered a heterogeneous condition. It was hypothesised that COPD, as currently defined, includes different clinically relevant subtypes.

Methods To identify and validate COPD subtypes, 342 subjects hospitalised for the first time because of a COPD exacerbation were recruited. Three months after discharge, when clinically stable, symptoms and quality of life, lung function, exercise capacity, nutritional status, biomarkers of systemic and bronchial inflammation, sputum microbiology, CT of the thorax and echocardiography were assessed. COPD groups were identified by partitioning cluster analysis and validated prospectively against cause-specific hospitalisations and all-cause mortality during a 4 year follow-up.

Results Three COPD groups were identified: group 1 (n=126, 67 years) was characterised by severe airflow limitation (postbronchodilator forced expiratory volume in 1 s (FEV₁) 38% predicted) and worse performance in most of the respiratory domains of the disease; group 2 (n=125, 69 years) showed milder airflow limitation (FEV₁ 63% predicted); and group 3 (n=91, 67 years) combined a similarly milder airflow limitation (FEV₁ 58% predicted) with a high proportion of obesity, cardiovascular disorders, diabetes and systemic inflammation. During follow-up, group 1 had more frequent hospitalisations due to COPD (HR 3.28, p<0.001) and higher all-cause mortality (HR 2.36, p=0.018) than the other two groups, whereas group 3 had more admissions due to cardiovascular disease (HR 2.87, p=0.014).

Conclusions In patients with COPD recruited at their first hospitalisation, three different COPD subtypes were identified and prospectively validated: 'severe respiratory COPD', 'moderate respiratory COPD', and 'systemic COPD'.

FENOTIPOS DE LA EPOC

THE PHENOTYPE AND COURSE OF COPD (PAC-COPD) STUDY

342 pacientes hospitalizados por primera vez EA-EPOC.

Seguimiento 4 años.

9 hospitales docentes en España. Enero 2004-Marzo 2006.

93% hombres, 68 años, FEV1 PBD 52%

SEVER RESPIRATORY

- Síntomas respiratorios.
- Calidad de vida.
- Función pulmonar.
- Capacidad de ejercicio.
- Densidad pulmonar.
- Paredes pulmonares.

MODERATE RESPIRATORY

- Síntomas respiratorios.
- Calidad de vida.
- Función pulmonar.
- Capacidad de ejercicio.
- Densidad pulmonar.
- Paredes pulmonares.

SYSTEMIC

- Síntomas respiratorios.
- Calidad de vida.
- Función pulmonar.
- Capacidad de ejercicio.
- Densidad pulmonar.
- Paredes pulmonares.
- Sobrepeso, inflamación sistémica, FRCV i DM



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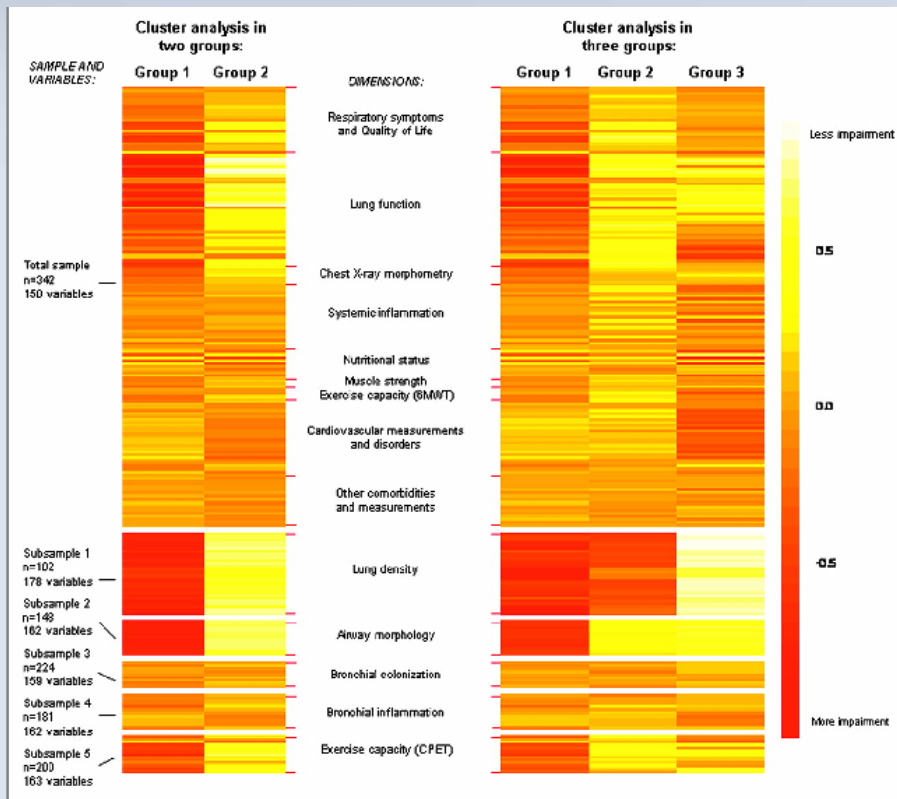
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FENOTIPOS DE LA EPOC



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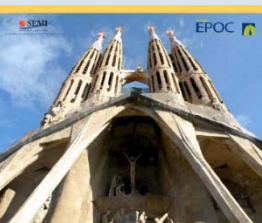
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3 groups: severe airflow limitation
milder airflow limitation
comorbidity.

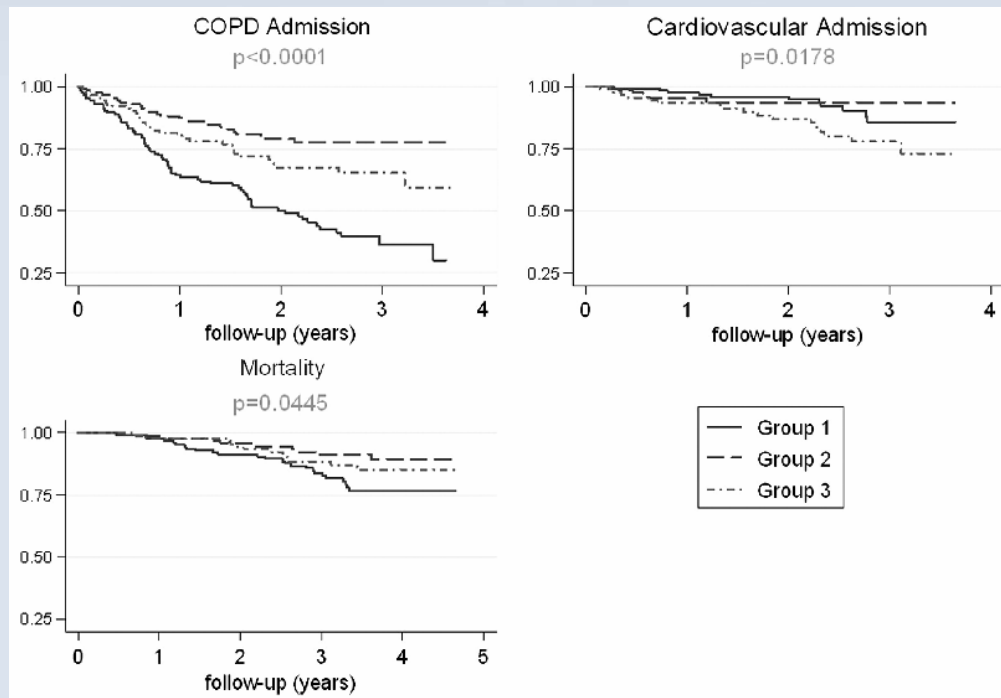
224 VARIABLES – 10 VARIABLES

- DYSPNOEA (MMRC)
- SGRQ-Activity
- FEV1% PREBRONCHODILATOR
- FEV1% POSTBRONCHODILATOR
- THORACIC GAS VOLUME (TGV%)
- INSPIRATORY TOTAL LUNG CAPACITY (IC/TLC)
- PaO₂
- PERIPHERAL BLOOD NEUTROPHIL COUNT
- BODY WEIGHT
- BODY MASS INDEX (BMI)

ALL GROUPS SIMILAR AGE AND SMOKE STATUS.



FENOTIPOS DE LA EPOC



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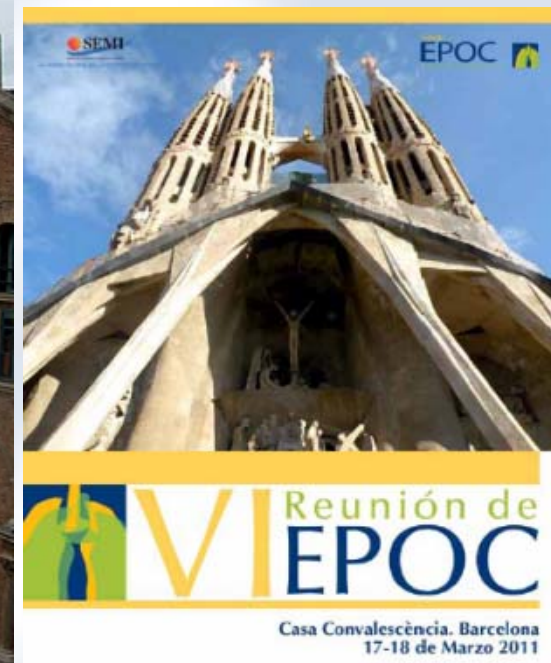
Severe airflow limitation

↑ ADMISSIONS
MORTALITY

Comorbidity.

↑ CARDIOVASCULAR
ADMISSIONS





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