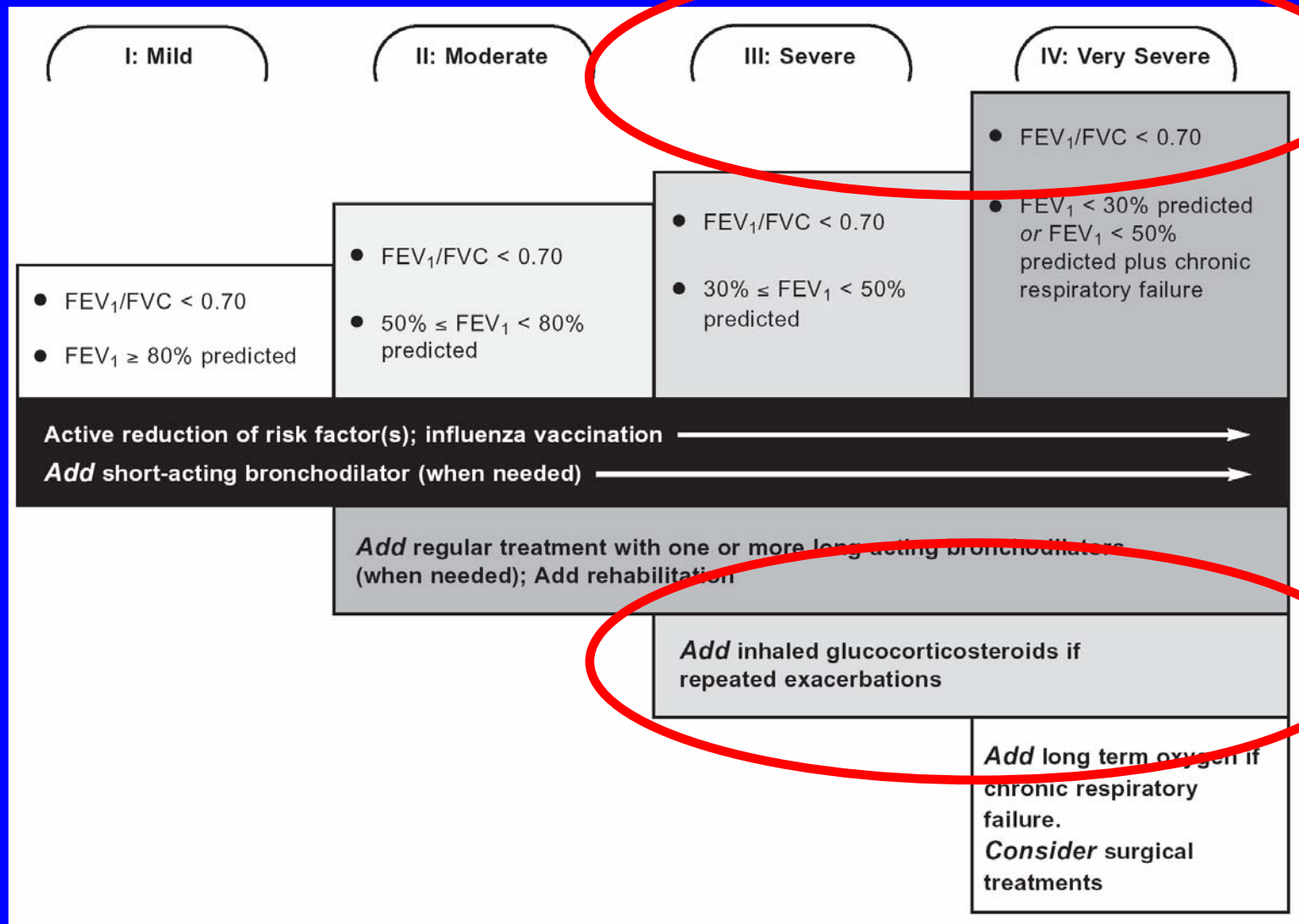


GesEPOC

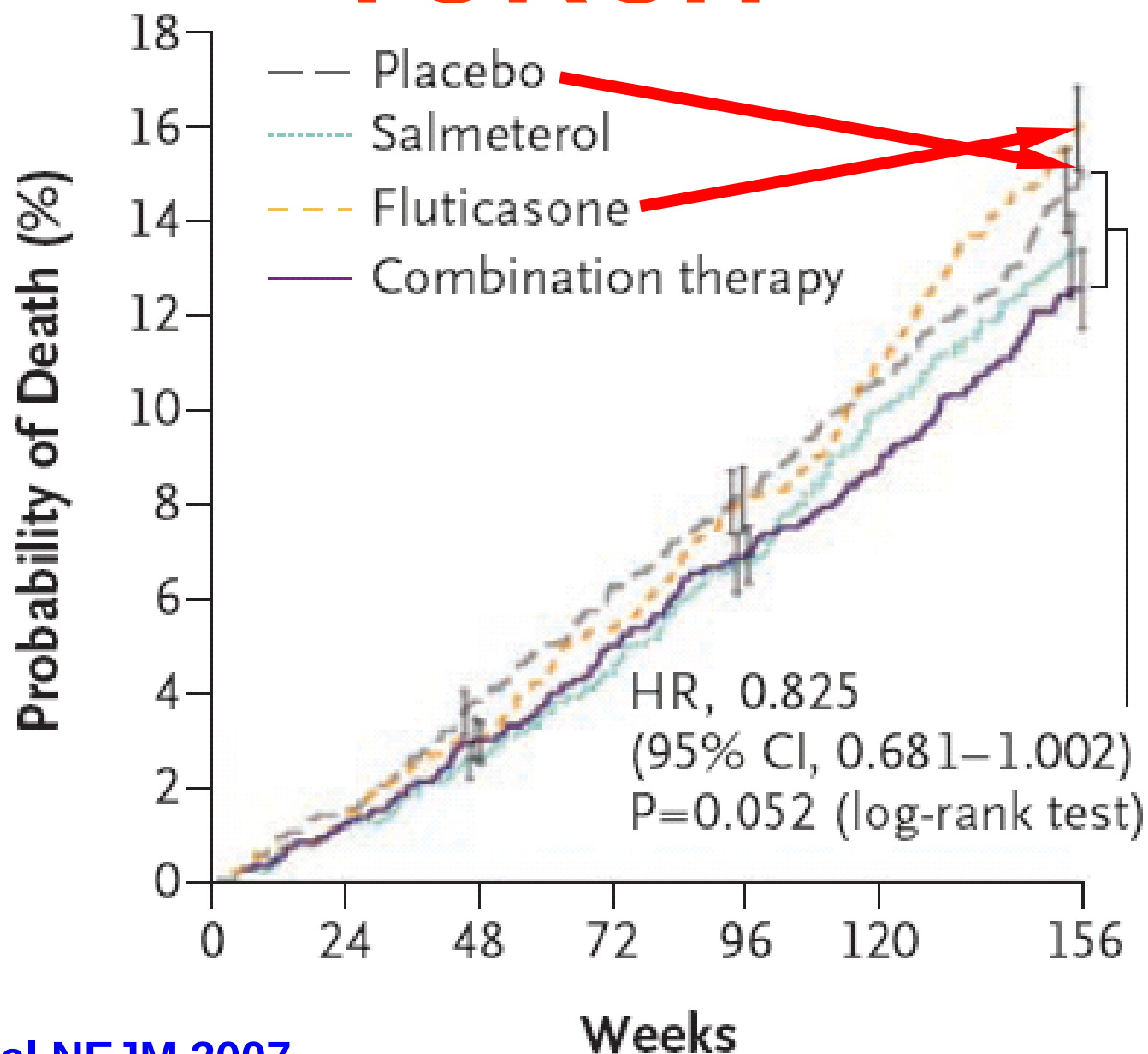
guía
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de la EPOC

Tratamiento de la EPOC



Death from Any Cause

TORCH



Response to ICs in COPD

On the whole, this study offers two major advances that benefit the patient with COPD. It provides the first possible evidence that lung function decline can be slowed with medications. It also provides further evidence that the use of inhaled corticosteroids, alone or in combination, in COPD is unnecessary and thus inappropriate.

Treatment of COPD

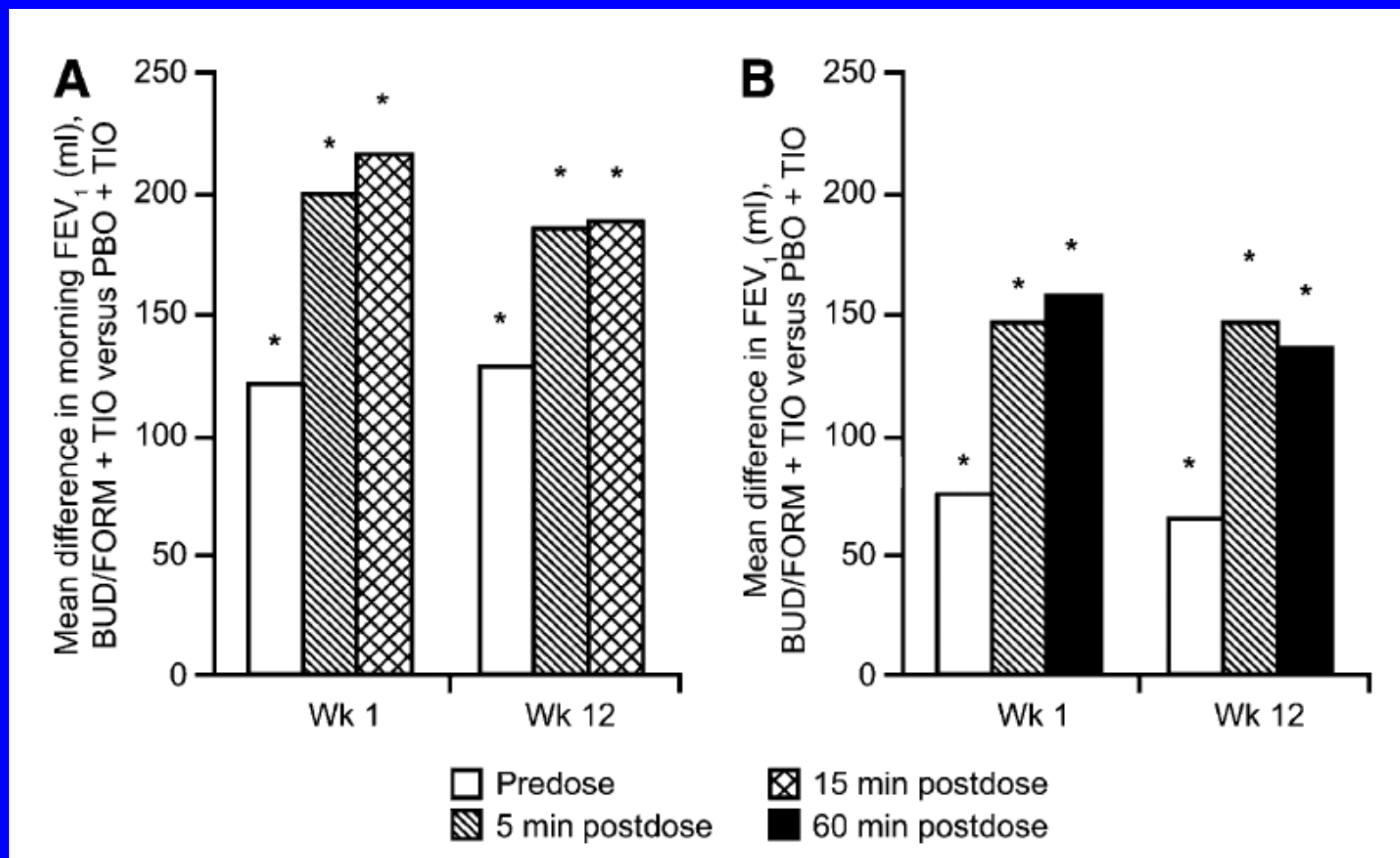
Table 3 Treatment administered for stable COPD

Variable	Global N = 833	Argentina N = 128	Ecuador N = 134	Spain N = 162	Hong Kong N = 153
Inhaled treatment, %					
SABA	74.8	85.6	69.5	75.3	97.4
Ipratropium	48.3	52.5	30.4	21.1	90.1
Tiotropium	35.5	33.9	40.6	73.9	1.9
LABA	9	2.5	13.3	9.1	2.6
ICS	21.8	12.7	31.2	5.6	44.7
LABA/ICS	45.9	72.8	35.9	68.3	12.5
Oral treatment, %					
Teophyllines	25.3	18.6	26.6	7.1	46.6
Mucolytics	10.1	5.9	13.2	20.4	1.3
Oral corticosteroids	4.4	3.4	11.7	3.5	0
Other, %					
LTOT	21.1	14.4	17.9	24.6	17.7
Rehabilitation	15.6	30.5	3.1	4.9	7.9
Antiinfluenza vaccine	58.6	72.0	22.6	80.3	48.7
Antipneumococcal vaccine	32.5	64.4	18.7	43.6	0.7

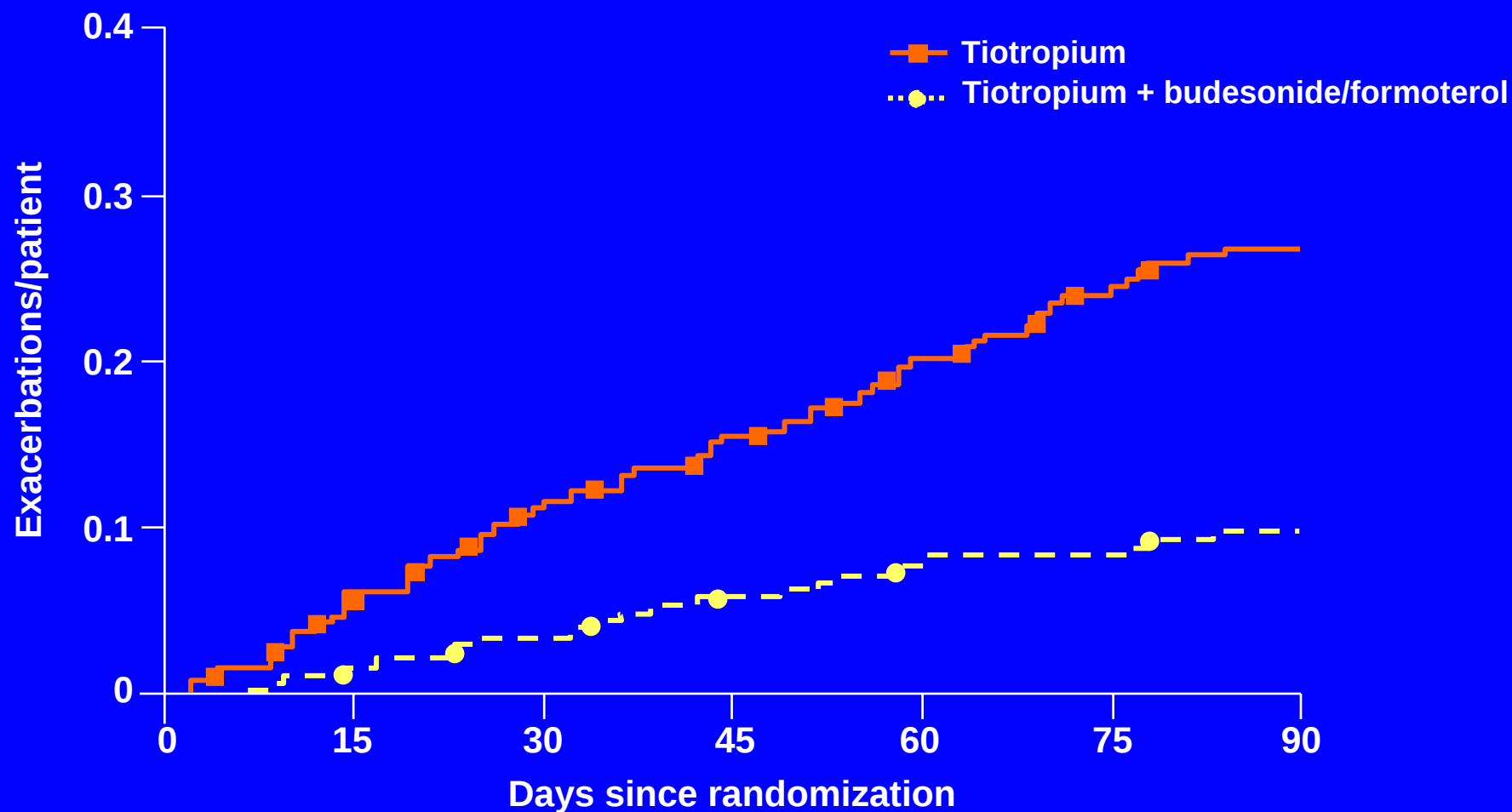
Corticoides inhalados en EPOC

Reasons named by GPs for prescribing ICS to patients who show a normal lung function or a medical history without (severe) complaints	Diagnostic assessment by a pulmonologist based on spirometry, medical history and the reasons named for prescribing ICS				
	Diagnosis = asthma	Diagnosis = unclear	Diagnosis = COPD	No asthma no COPD	Total
Obvious reasons, total	119	18	13	2	152
Previously shown reversible bronchial obstruction	39	6	5	1	51
Peak flow registration test shows asthma	10	4			14
Steroid test shows asthma	6				6
Diagnosis previously assessed by paediatrician/pulmonologist	56	5	8	1	70
Severe asthma in childhood	8	3			11
Unclear reasons, total	13	91	10	16	130
History of complaints from allergy or hyperactivity/smoking habits and dyspnoea	8	24	9	4	39
ICS prescribed by former GP	3	27	1	3	34
Reason unclear to prescribing GP	2	40		9	51
Total	133 (47%)	108 (38%)	23 (8%)	18 (7%)	282 (100%)
Advised to stop ICS	5	108	18	18	149

Tiotropio + Budesonida/formoterol



Tiotropium + budesonide/formoterol



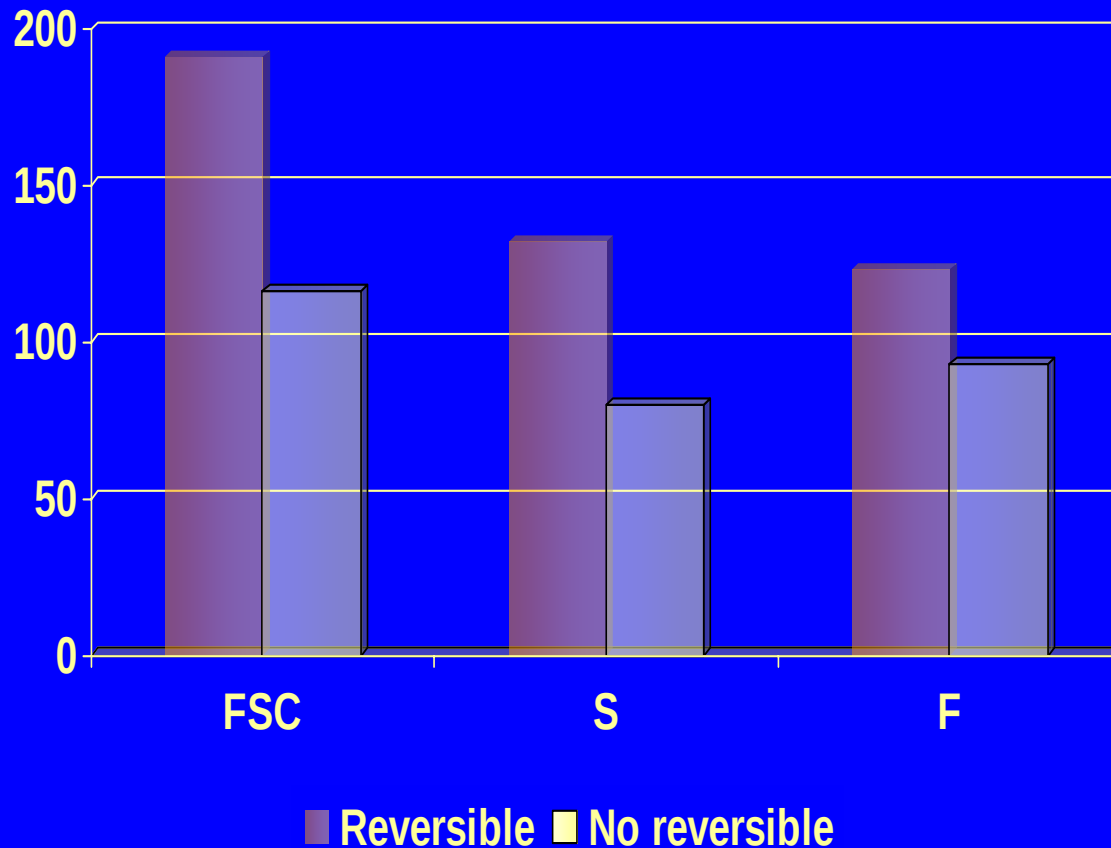
Tiotropio + Budesonida/formoterol

		Tio	Tio + Bud/For	Total
FEV ₁ (L)	Mean Range	1.097 0.29–2.01	1.082 0.40–1.83	1.089 0.29–2.01
FVC (L)	Mean Range	2.407 0.75–5.33	2.355 0.96–5.37	2.381 0.75–5.37
VC (L)	Mean Range	2.572 0.78–5.39	2.542 0.86–5.39	2.557 0.78–5.39
FEV ₁ (% PN)	Mean Range	38.1 10–58	37.7 16–51	37.9 10–58
FEV ₁ (% VC)	Mean Range	44.1 16–93	44.0 18–69	44.0 16–93
FEV ₁ (L) after Bricanyl	Mean Range	1.269 0.45–3.10	1.235 0.42–3.72	1.252 0.42–3.72
Reversibility (%)	Mean Range	16.6 -12–248	14.7 -24–284	15.6 -24–284
Reversibility (% PN)	Mean Range	5.9 -6–60	5.2 -10–89	5.6 -10–89

Welte, et al. AJRCCM 2009;180:741-750

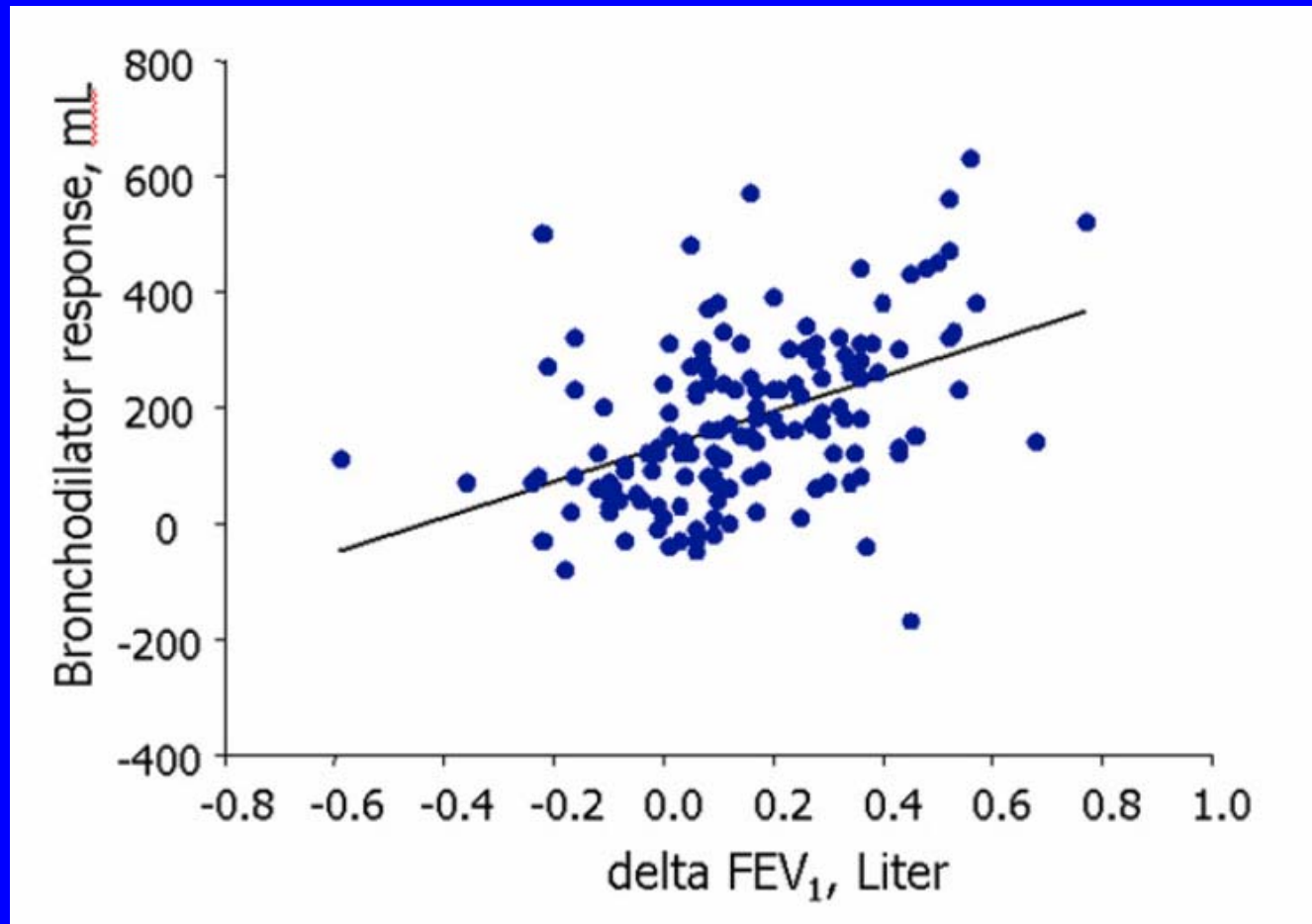
Tratamiento combinado en la EPOC

FEV1



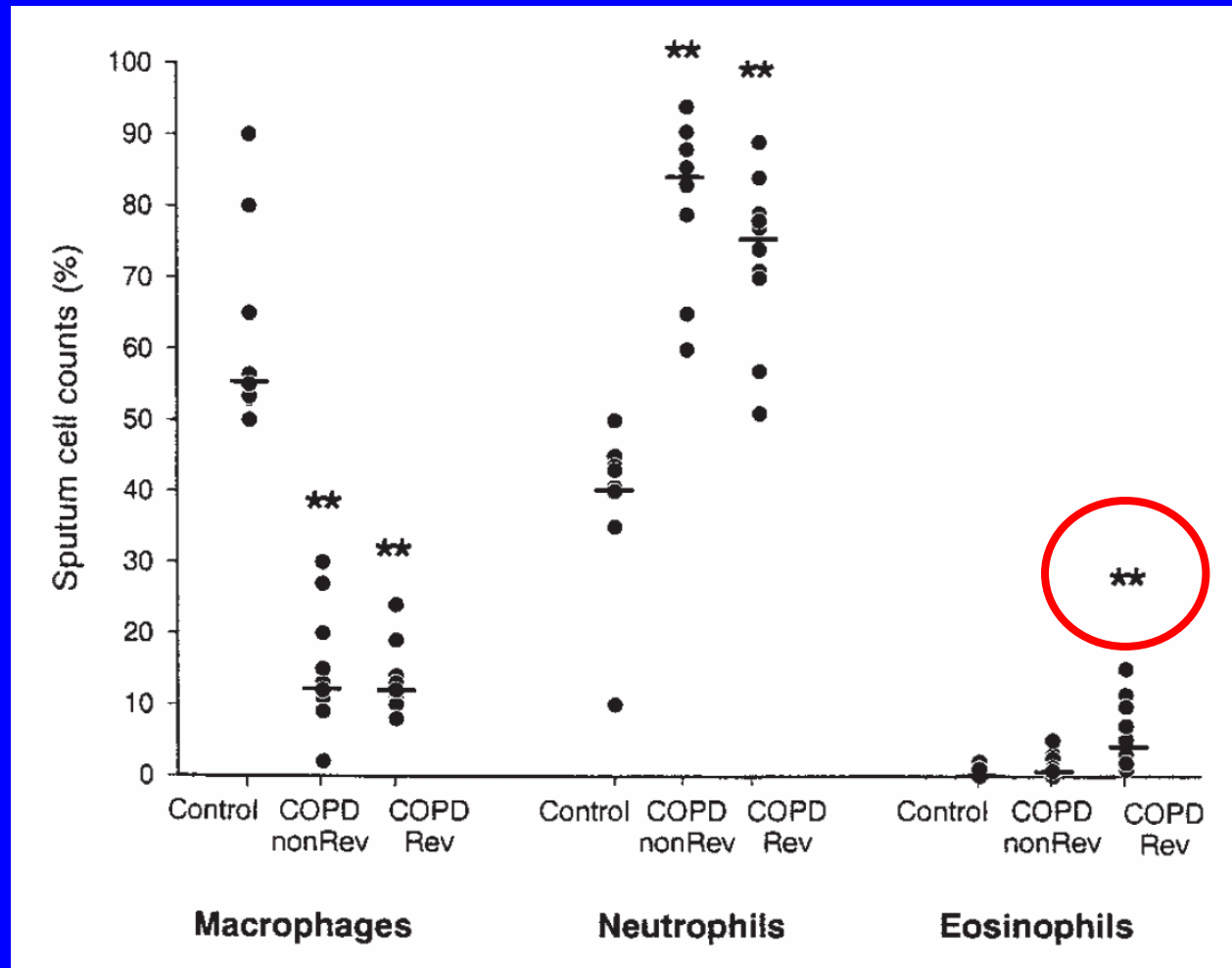
Respuesta del FEV1 valle según reversibilidad al albuterol.

Tipos de EPOC



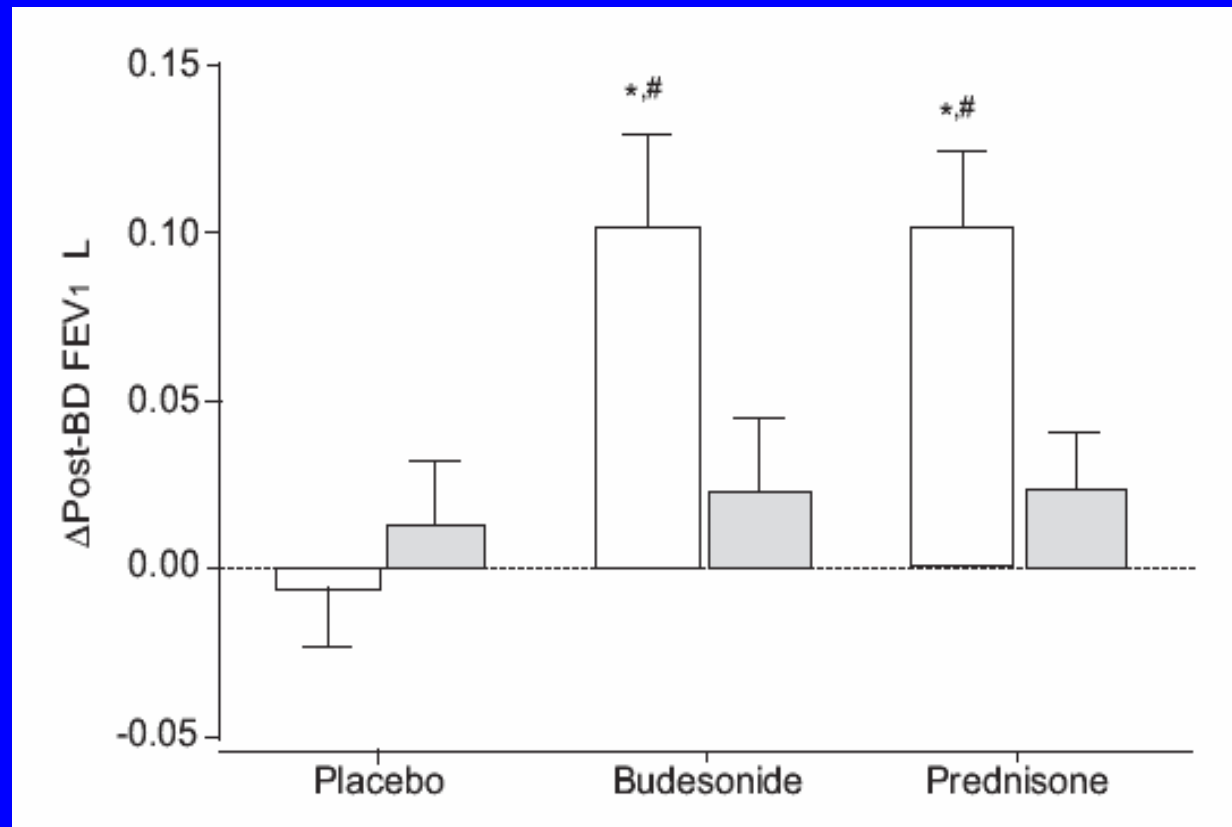
Lee *et al.* Respir Med 2010; 104: 542-549

Tipos de EPOC



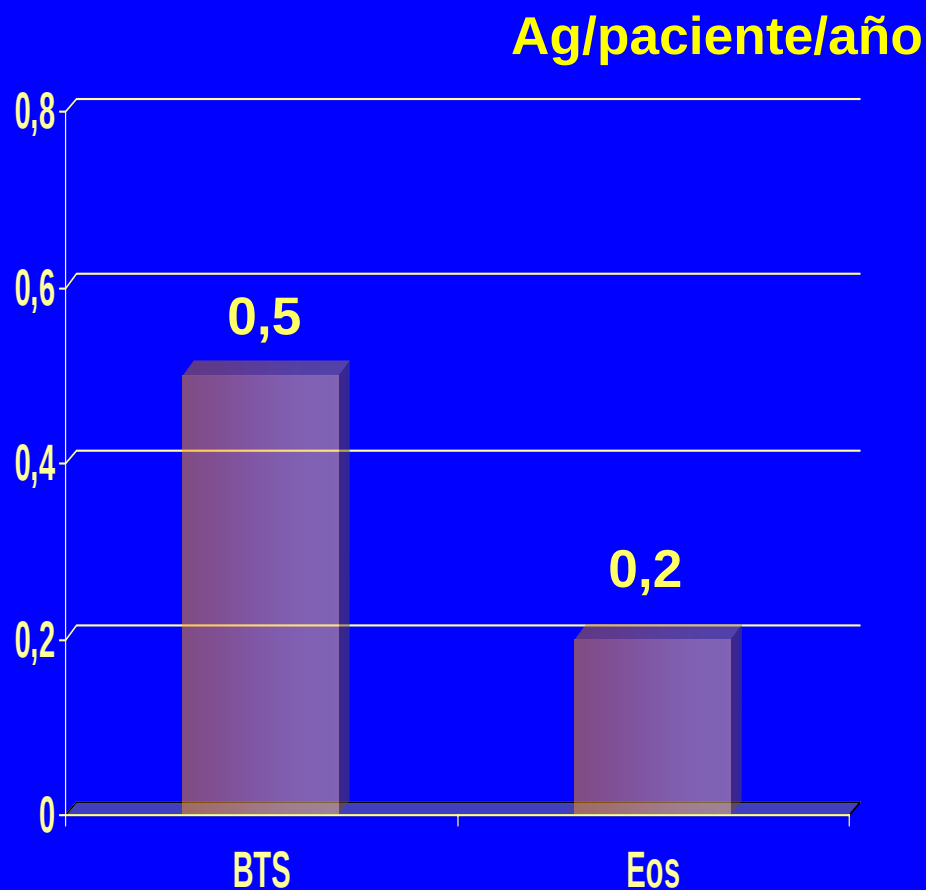
Corticoides inhalados en la EPOC

Cambio en
FEV1 post-BD
en pacientes
con o sin
eosinofilia en
esputo
($p < 0,05$)



Tratamiento dirigido de la EPOC

Pacientes aleatorizados a Tto. según BTS o según eosinofilia en esputo inducido. Objetivo mantener eosinofilia <3%
Reducción de agudizaciones del 62% (5-72%); $p=0,037$



Tipos de EPOC

Diagnóstico de asma	Casos	HRB	Sensibilización IgE	IgE Total	Sibilantes	Rinitis alérgica
Basal	19	71%	69%	1.83	63%	68%
Durante seguimiento	22	40%	61%	1.84	46%	50%
Nunca	123	19%	21%	1.38	29%	23%

Diferencias en las características basales de los casos incidentes de obstrucción crónica al flujo aéreo según la presencia de asma. Estudio ECRHS en 5.002 personas de 20-44 años seguidas 10 años.

El síndrome overlap

Review

The overlap syndrome of asthma and COPD: what are its features and how important is it?

P G Gibson,^{1,2} J L Simpson¹

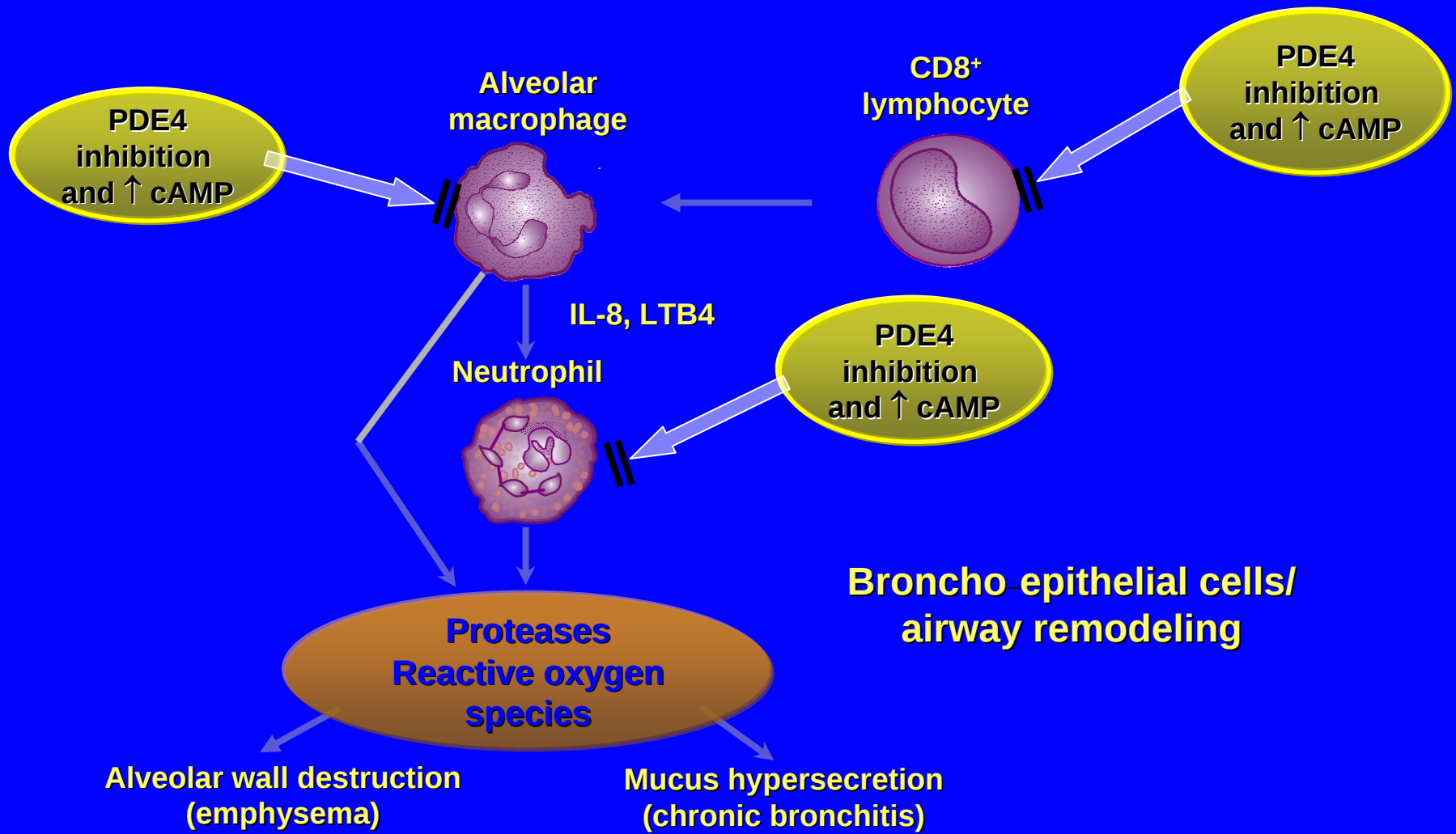
Normativa Canadiense

- In patients in whom the asthma component is prominent, early introduction of ICS may be justified
- ICS should not be used as monotherapy in COPD and when used should be combined with a LABA

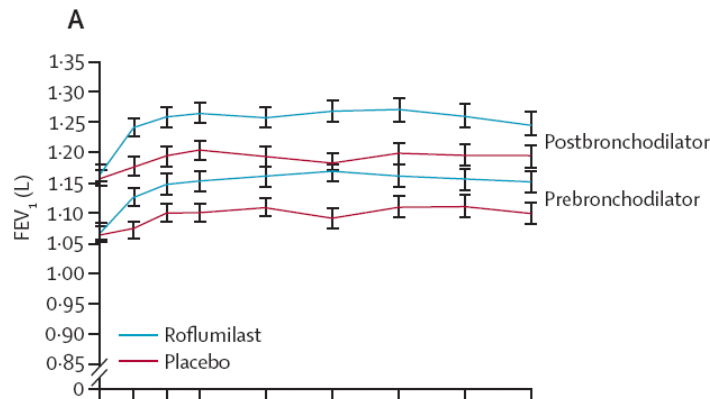
Cambio de paradigma

- **Paradigma actual:** CIs a dosis altas para todos los pacientes con EPOC, FEV1<50% (o 60%) y más de una agudización.
 - **Paradigma futuro:** CIs a la mínima dosis eficaz para todos los pacientes con fenotipo *overlap* sea cual sea su FEV1
-

PDE4 Inhibitors

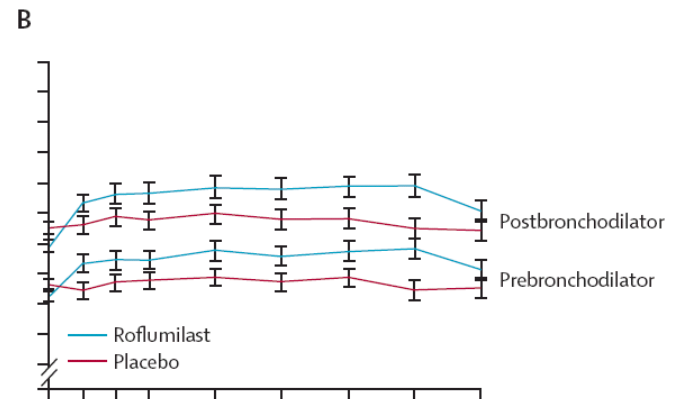


Roflumilast in COPD



Number at risk*

Prebronchodilator										
Roflumilast	764	743	667	625	604	571	542	517	499	
Placebo	758	744	694	667	633	600	566	537	521	
Postbronchodilator										
Roflumilast	757	728	661	622	598	569	540	510	497	
Placebo	753	733	691	662	626	597	562	532	513	



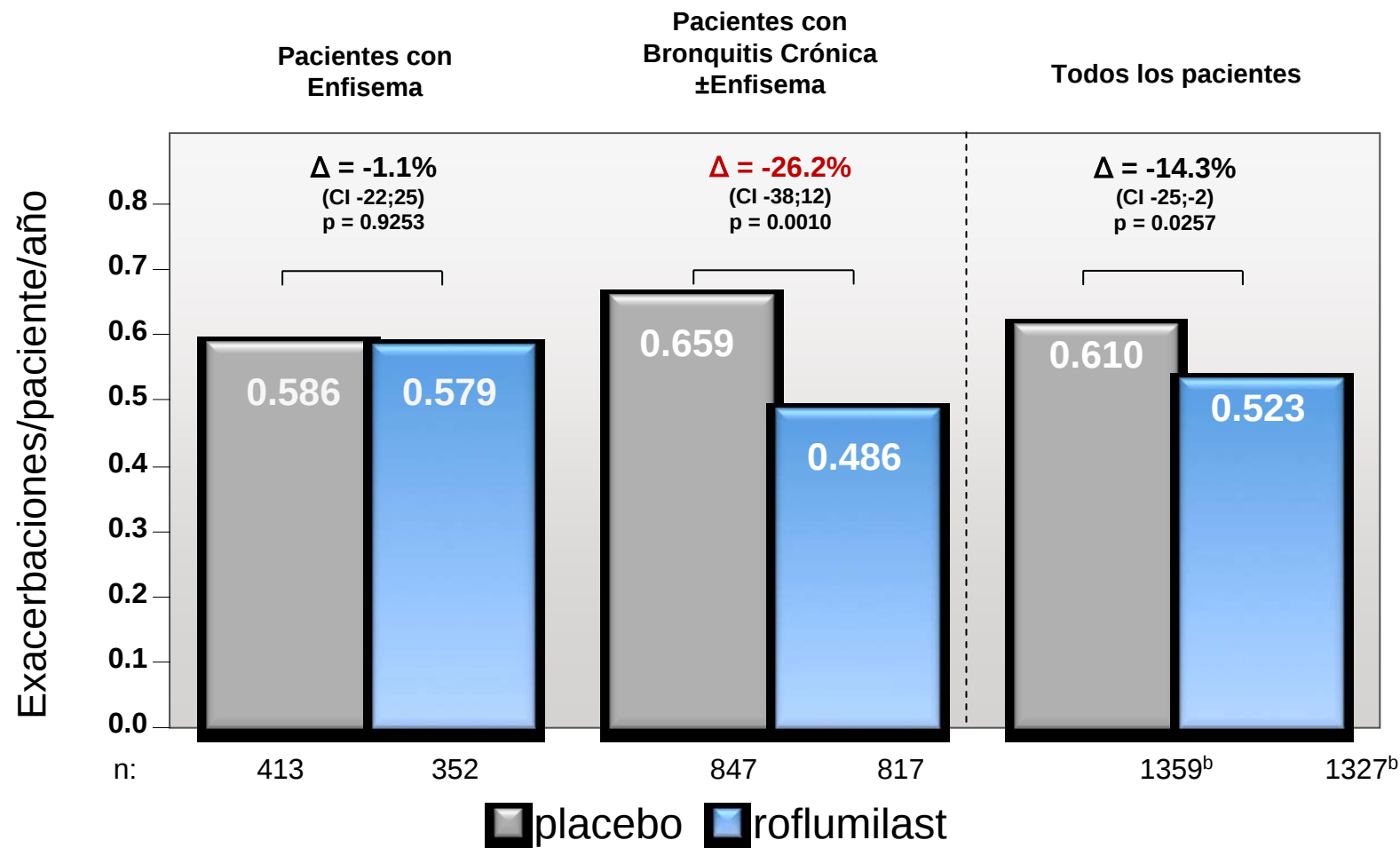
Number at risk*

Prebronchodilator										
Roflumilast	772	730	669	637	606	581	558	544	525	
Placebo	796	762	725	708	673	641	601	565	551	
Postbronchodilator										
Roflumilast	769	725	666	635	604	577	554	543	525	
Placebo	794	761	723	706	670	638	599	562	546	

Patients with COPD; FEV₁ < 50% predicted, chronic cough and sputum and at least one severe exacerbation previous year

TASAS DE EXACERBACIONES MODERADAS O GRAVES* - POR FENOTIPO

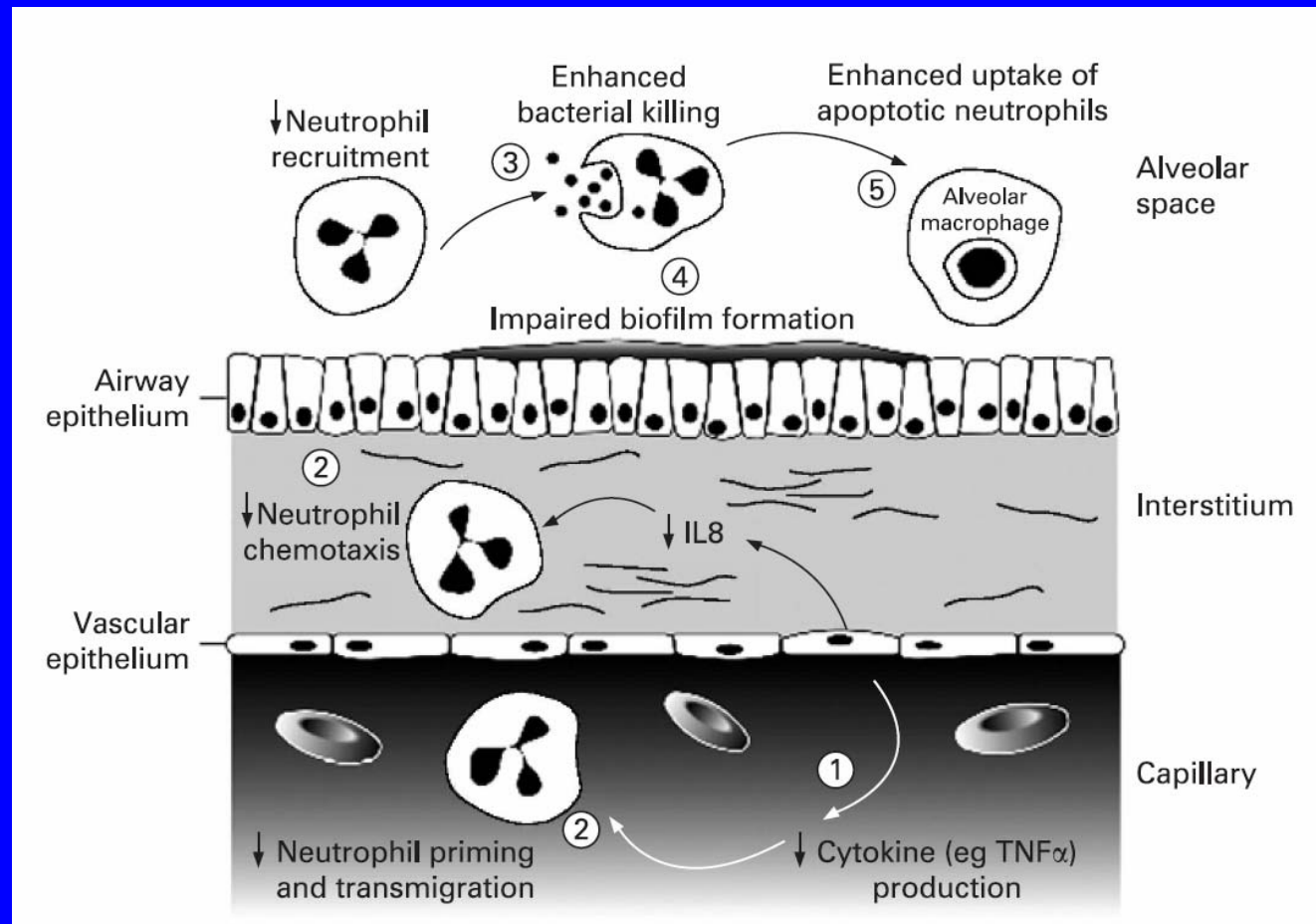
M2-111 & M2-112 – análisis conjunto



*exacerbaciones tratadas con esteroides sistémicos o que lleven a hospitalización o muerte

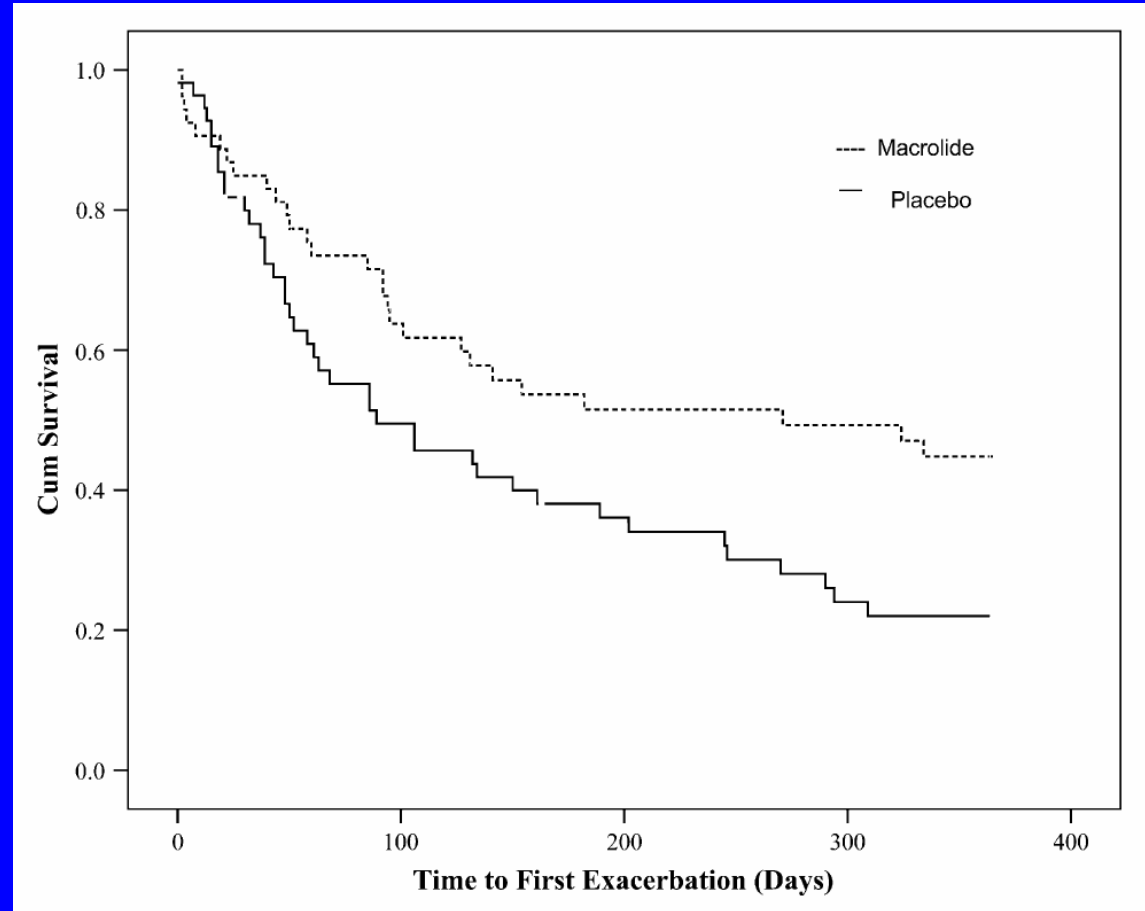
^b incluye también a pacientes en los que no está disponible las características de su enfermedad

Azithromycin and COPD



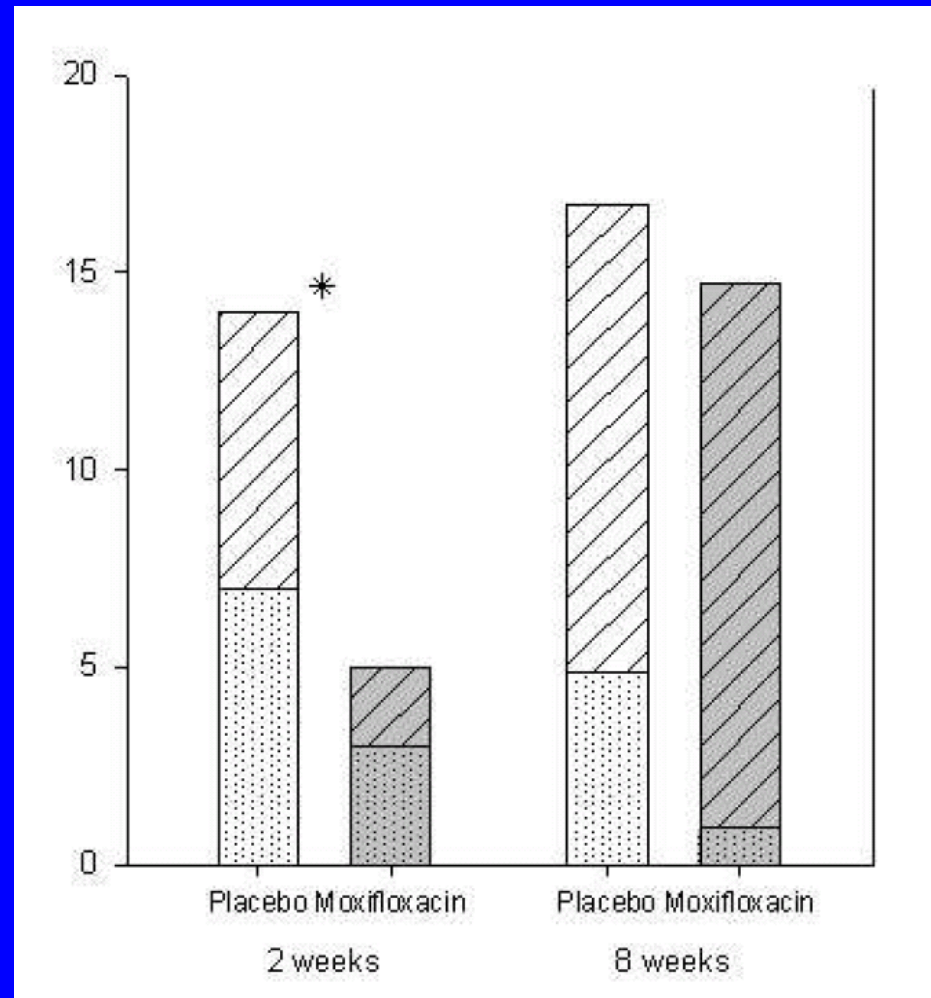
Prevention of exacerbations with macrolides

Proportion of patients without an exacerbation vs time to the first exacerbation in placebo and macrolide arms ($p=0.02$)



Treatment of colonisation

Colonisation at 2 and
8 weeks.
Bottom: persistence
Upper: acquired
* $p < 0.01$



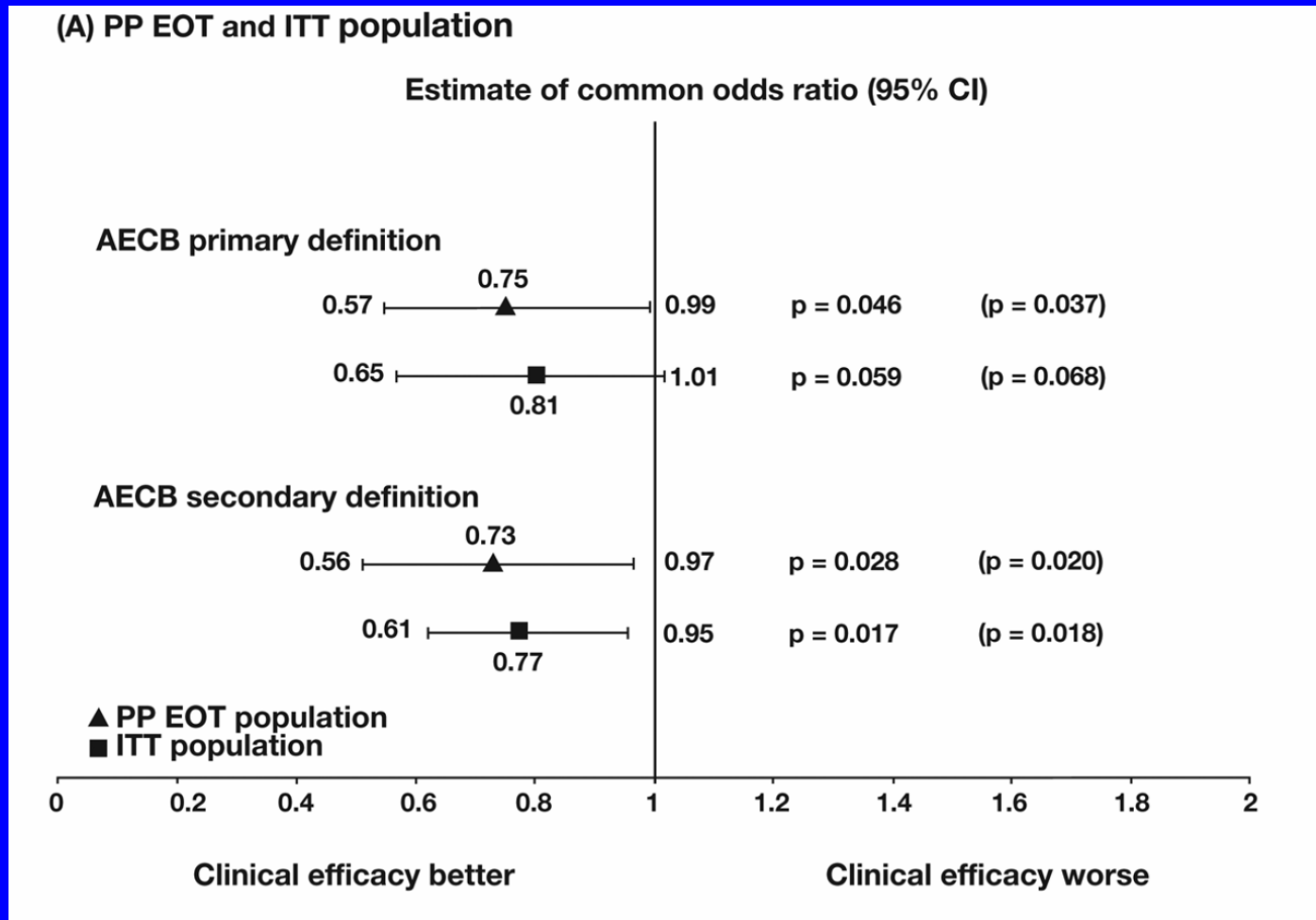
RESEARCH

Open Access

Pulsed moxifloxacin for the prevention of exacerbations of chronic obstructive pulmonary disease: a randomized controlled trial

Sanjay Sethi^{1*}, Paul W Jones², Marlice Schmitt Theron³, Marc Miravittles⁴, Ethan Rubinstein⁵, Jadwiga A Wedzicha⁶, Robert Wilson⁷, the PULSE Study group

Clinical efficacy - Per protocol



Non-purulent



Clear

Purulent



Yellow



Green



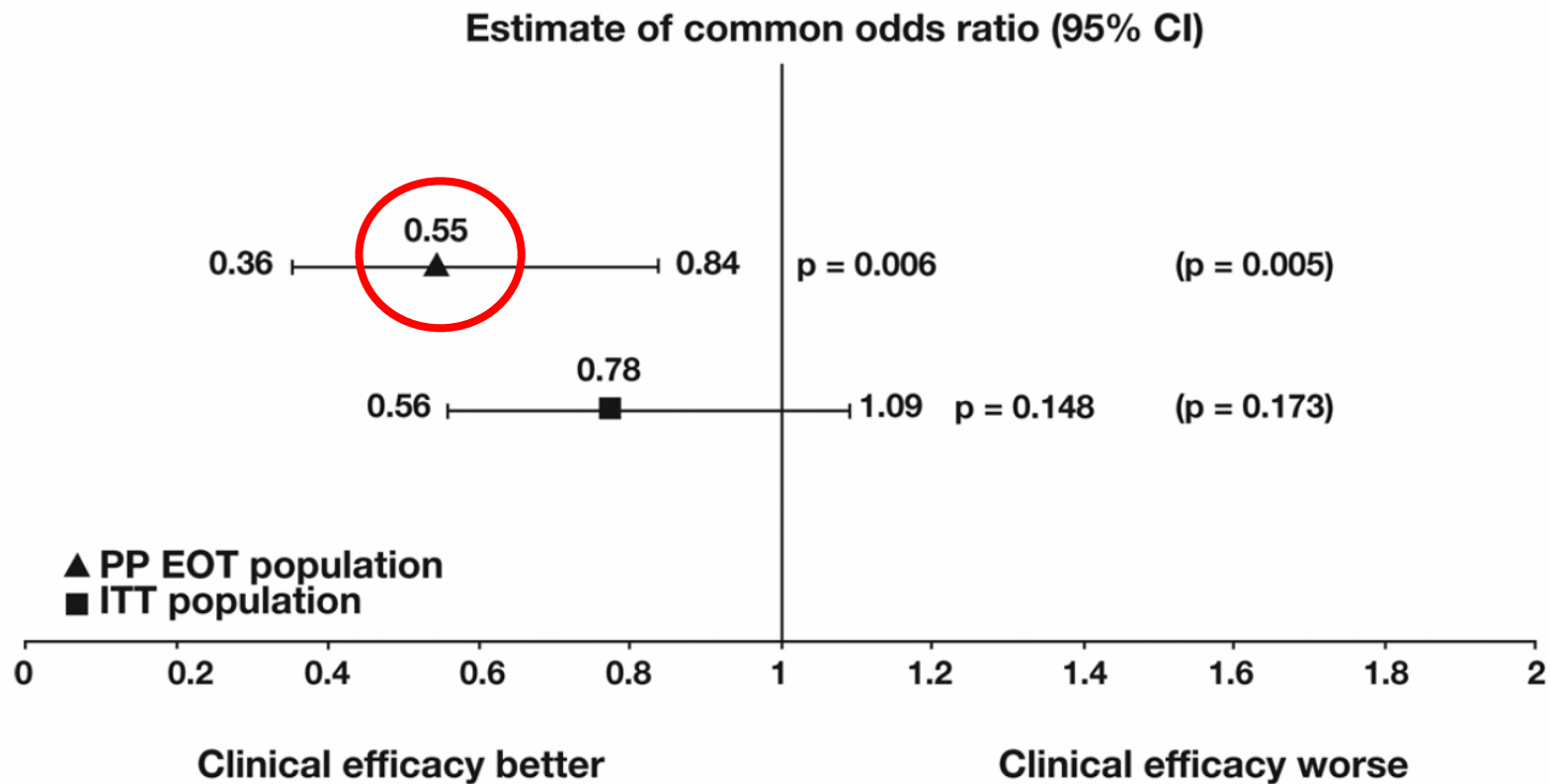
Rust

Courtesy of R. Wilson. Host Defence Unit. Royal
Brompton Hospital London, UK

Clinical efficacy

Purulent/muco-purulent sputum

(B) Mucopurulent/purulent sputum subgroup



ORIGINAL ARTICLE

Susceptibility to Exacerbation in Chronic Obstructive Pulmonary Disease

John R. Hurst, M.B., Ch.B., Ph.D., Jørgen Vestbo, M.D., Antonio Anzueto, M.D., Nicholas Locantore, Ph.D., Hana Müllerova, Ph.D., Ruth Tal-Singer, Ph.D., Bruce Miller, Ph.D., David A. Lomas, Ph.D., Alvar Agustí, M.D., Ph.D., William MacNee, M.B., Ch.B., M.D., Peter Calverley, M.D., Stephen Rennard, M.D., Emiel F.M. Wouters, M.D., Ph.D., and Jadwiga A. Wedzicha, M.D., for the Evaluation of COPD Longitudinally to Identify Predictive Surrogate Endpoints (ECLIPSE) Investigators*

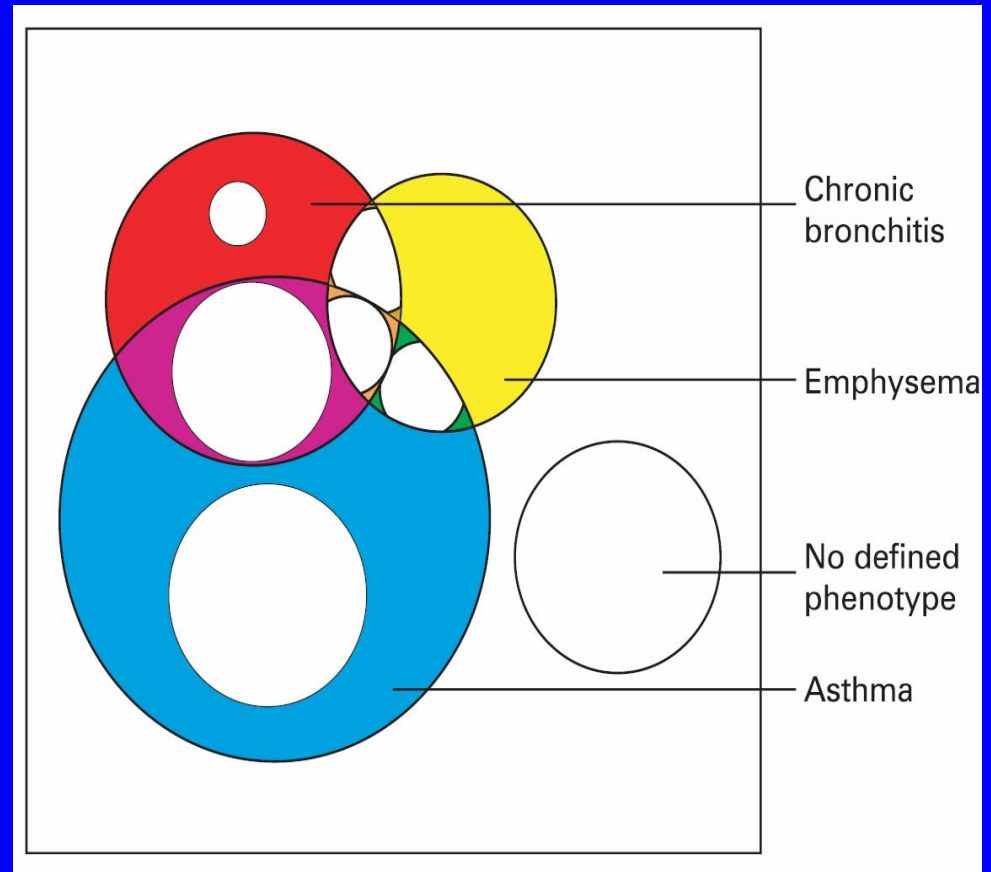
Frequent Exacerbations of Chronic Obstructive Pulmonary Disease — A Distinct Phenotype?

Donald P. Tashkin, M.D.

Diagrama de Venn de la EPOC

Los círculos representan la proporción de individuos con EPOC ($FEV_1/FVC < 70\%$).

Adultos mayores de 50 años en Nueva Zelanda (n= 469)



Tipos de EPOC



CHEST

The Many “Small COPDs”* **COPD Should Be an Orphan Disease**

Stephen I. Rennard, MD, FCCP; and Jørgen Vestbo, DrMedSci

Types of COPD: Cluster analysis

	Cluster				
	1	2	3	4	5
Pre-BD FEV ₁ /FVC %	-	-	+/-	+/-	+/-
Pre-BD FEV ₁ % pred	--	--	+/-	+/-	+/-
Reversibility %	++	--	+	--	+
DL _{CO} /VA [‡] % pred	--	--	+/-	+/-	+/-
FRC % pred	++	+	+/-	+/-	+/-
Log IgE g·L ⁻¹	++	--	++	+/-	+/-
Fe _{NO} ppb	+/-	--	++	--	+/-
Sputum production %	100	0	0	0	100
Smoking history pack-yrs	++	++	--	--	--

BD: bronchodilator; FEV₁: forced expiratory volume in 1 s; FVC: forced vital capacity; % pred: % predicted; DL_{CO}: diffusing capacity of the lung for carbon monoxide; VA: alveolar volume; FRC: functional residual capacity; Ig: immunoglobulin; Fe_{NO}: exhaled nitric oxide fraction, --: ≥20% below mean; -: ≥10% and <20% below mean; +/-: within 10% of mean; +: ≥10% and <20% above mean; ++: ≥20% above mean, #: n=175; ‡: adjusted for haemoglobin concentration

El síndrome overlap

Review

The overlap syndrome of asthma and COPD: what are its features and how important is it?

P G Gibson,^{1,2} J L Simpson¹

Inspiratory-to-Total Lung Capacity Ratio Predicts Mortality in Patients with Chronic Obstructive Pulmonary Disease

Ciro Casanova, Claudia Cote, Juan P. de Torres, Armando Aguirre-Jaime, Jose M. Marin, Victor Pinto-Plata, and Bartolome R. Celli

Respiratory Research Institute, Hospital Universitario Nuestra Señora de Candelaria, Tenerife; and Pulmonary Department, Hospital Miguel Servet, Zaragoza, Spain; Pulmonary Department, Bay Pines Veterans Affairs Medical Center, St. Petersburg, Florida; and Pulmonary and Critical Care Department, Caritas-St. Elizabeth's Medical Center, Boston, Massachusetts

Daily Physical Activity in Patients with Chronic Obstructive Pulmonary Disease Is Mainly Associated with Dynamic Hyperinflation

Francisco Garcia-Rio¹, Vanesa Lores¹, Olga Mediano², Blas Rojo², Angel Hernanz³, Eduardo López-Collazo⁴, and Rodolfo Alvarez-Sala¹

¹Servicio de Neumología, Hospital Universitario La Paz, Madrid; ²Sección de Neumología, Hospital Infanta Sofía, Madrid; ³Servicio de Bioquímica, Hospital Universitario La Paz, Madrid; and ⁴Investigation Unit, Hospital Universitario La Paz, Madrid, Spain

Responses to LABA + ICS

Table 2 Responses in lung function and dyspnea score following 3 months of treatment with combined long-acting beta-agonist and inhaled corticosteroid.

Subtype	Mild-mixed	Emphysema-dominant	Obstruction-dominant	Severe-mixed
Δ FEV ₁ , liters (% predicted)	0.169 ± 0.218 (5.1 ± 6.4)	$0.032 \pm 0.263^*$ ($0.9 \pm 9.3^*$)	$0.207 \pm 0.223^{\S}$ ($6.7 \pm 7.3^{\S}$)	$0.155 \pm 0.166^{\P}$ ($5.1 \pm 5.5^{\P}$)
Δ TLC, liters	-0.09 ± 0.52	0.09 ± 0.57	-0.41 ± 1.11	-0.16 ± 0.56
Δ IC, liters	0.07 ± 0.47	0.22 ± 0.48	0.11 ± 0.30	0.11 ± 0.33
Δ RV, liters	-0.20 ± 0.64	-0.11 ± 0.85	$-0.63 \pm 1.26^{\dagger\S}$	-0.31 ± 0.77
Δ MMRC score	-0.39 ± 1.02	-0.16 ± 0.55	$-0.68 \pm 1.03^{\S}$	-0.26 ± 0.74

Three phenotypes of obstructive lung disease in the elderly

K-W. Jo,* S. W. Ra,[†] E. J. Chae,[‡] J. B. Seo,[‡] N. K. Kim,[‡] J-H. Lee,[§] E-K. Kim,[§] Y. K. Lee,[¶] T-H. Kim,[#]
J. W. Huh,* W. J. Kim,** J. H. Lee,^{††} S-M. Lee,^{‡‡} S. Y. Lim,^{§§} T. R. Shin,^{¶¶} H. I. Yoon,^{##} S. S. Sheen,^{***}
J. S. Lee,* S-D. Lee,* Y-M. Oh*

SETTING: Eleven referring hospitals in South Korea.

OBJECTIVE: To classify the phenotypes in elderly subjects with obstructive lung disease (OLD).

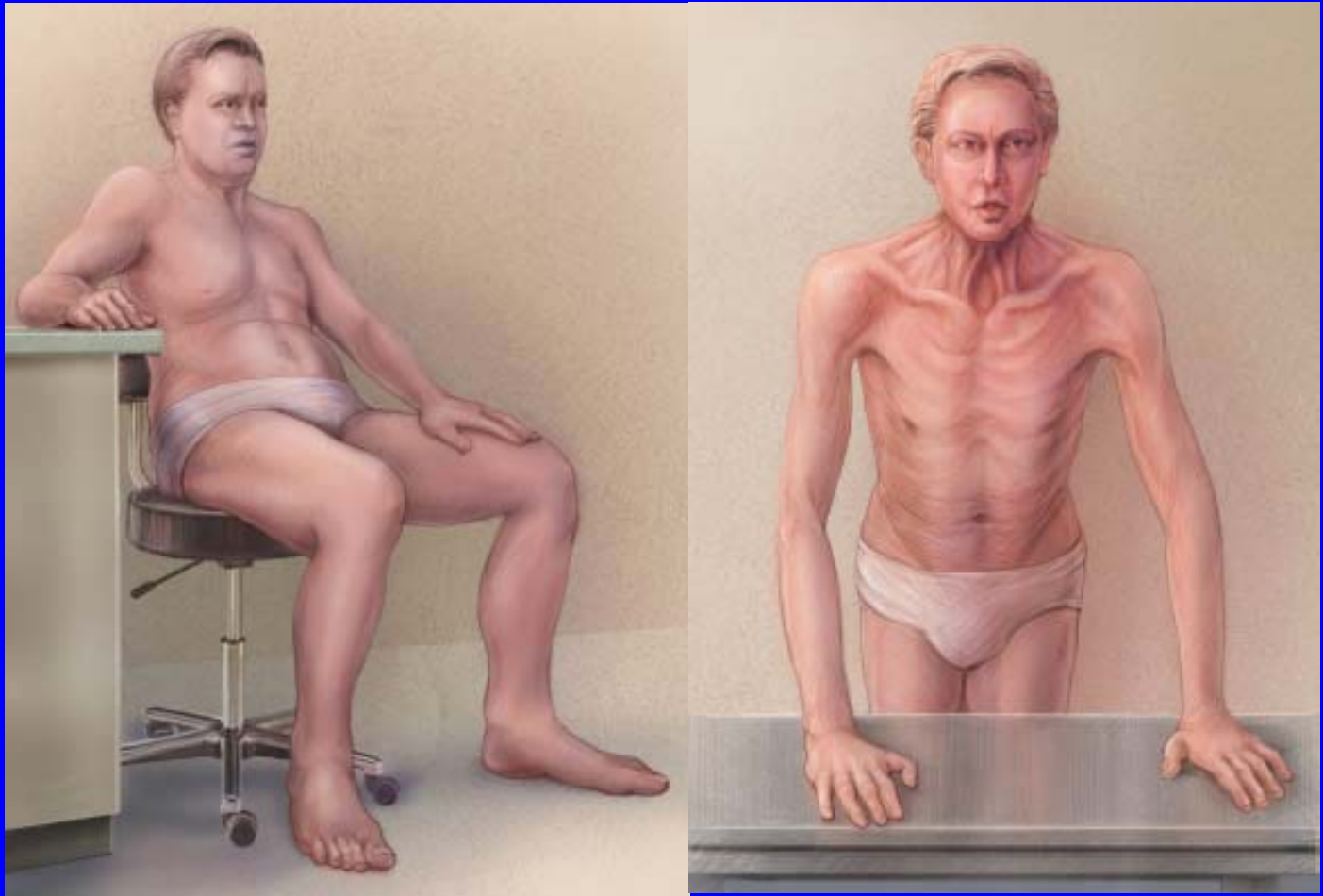
METHODS: We analysed 191 subjects aged ≥ 60 years with chronic respiratory symptoms and either obstructive spirometry or bronchial hyperresponsiveness. Factor analysis was performed using commonly measured variables and revealed four significant variables: 1) the ratio of inspiratory capacity to total lung capacity, 2) the total score on the St George's Respiratory Questionnaire, 3) the volume fraction of the lung less than 950 Hounsfield Unit at full inspiration on volumetric computed tomography and 4) post-bronchodilator forced expiratory volume in 1 second (FEV₁) changes. We performed a cluster analysis on these four variables.

RESULTS: The mean age was 68.5 (± 5.2 SD) years and the mean post-bronchodilator FEV₁ was 52.4% (± 16.5) predicted. Three clusters with the following phenotypes were identified: Cluster 1 included subjects with moderate to severe airflow obstruction and bronchodilator reversibility; Cluster 2 subjects had moderate airflow obstruction without bronchodilator reversibility, and Cluster 3 subjects had severe airflow obstruction without bronchodilator reversibility.

CONCLUSIONS: We identified three phenotypes in elderly subjects with OLD. Follow-up studies are needed to explore the clinical significance of each phenotype.

KEY WORDS: chronic bronchitis; emphysema; asthma; obstructive lung disease; elderly

Looking at the patient



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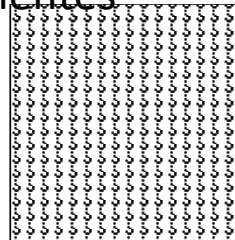


¿Qué es GesEPOC?

- Significa Guía Española de la EPOC.
- Es una plataforma innovadora de conocimiento sobre la EPOC.

¿Quién hace GesEPOC?

- SEPAR (Sociedad Española de Neumología y Cirugía Torácica)
- SemFYC (Sociedad Española de Medicina de Familia y Comunitaria)
- Semergen (Sociedad Española de Médicos de Atención Primaria)
- SEMG (Sociedad Española de Médicos Generales y de Familia)
- SEMI (Sociedad Española de Medicina Interna)
- SEMES (Sociedad Española de Medicina de Urgencias y Emergencias)
- SERMEF (Sociedad Española de Rehabilitación y Medicina Física)
- CNPT (Comité Nacional para la Prevención del Tabaquismo)
- Foro Español de Pacientes



¿Cómo se hará GesEPOC?

- A partir de 3 áreas de actuación:

1. Científico-médica
2. Pacientes
3. Difusión (comunicación)

¿Cómo se hará GesEPOC?

- Coordinador General:
Dr. Marc Miravitlles
- Consejero Delegado:
Dr. Juan José Soler
- Consejo GesEPOC
- Comité Ejecutivo
- Comité de Área:
Dra. Myriam Calle
Dra. M^a Dolors Navarro
Sra. Montse Llamas

¿Cómo se hará GesEPOC?

- Dr. Marc Miravittles (SEPAR)
- Dr. Juan José Soler
- Dra. Myriam Calle (SEPAR)
- Dr. Jesús Molina (semFYC)
- Dr. José Antonio Quintano (Semergen)
- Dr. Pere Almagro (SEMI)
- Dr. Juan Antonio Trigueros (SEMG)
- Dr. Pascual Piñera (SEMES)
- Dr. Adolfo Simón Rodríguez (SEMES)
- Dra. Ester Marco (SERMEF)
- Dr. Juan Antonio Riesco (CNPT)
- Sra. Antonia Cachinero
- Dr. Joan Soriano
- Dra. M^a Dolors Navarro (Foro Español de Pacientes)
- Dr. Joan Escarrabill
- Dr. Julio Ancochea, coordinador científico de la Estrategia en EPOC del SNS
- Sr. Daniel López
- Sra. Montse Llamas

www.gesepoc.com

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La voz
de GesEPOC

Testimonios
pacientes

Investigación

Actualidad



Joan Escarabill

Entrevista al Responsable del
Comité de Pacientes de
SEPAR...



Ana Delgado

56 años...



Pere Ubartí

67 años...



Oriol Renter

63 años...



Definición de EPOC

Artículos sobre la definición de
EPOC en la revista científica
Chest. Toda la información
en &n...

OBSERVATORIO
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Consulta la encuesta
sobre las nuevas
normativas de
tratamiento de la EPOC.

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