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Pneumonia in Asthma Patients: Are We Giving It Enough Attention?[☆]



Neumonía en asmáticos: ¿le estamos prestando suficiente atención?

To the Editor,

We recently conducted a systematic retrospective chart review of patients hospitalized with asthma or COPD during a 1-year period in the respiratory medicine department of our hospital (which attends a population of 276 429 inhabitants), gathering

information about their associated comorbidities. The sample consisted of 300 patients, 210 (70%) admitted with a diagnosis of COPD (30%) and 90 with a diagnosis of asthma. Women predominated among the asthma patients (83% vs 15%; *P*: .0001), their body mass index was higher (30±6 vs 28±6; *P*: .003), they were younger (66±16 years vs 73±9; *P*: .0001), and there were fewer smokers (15% vs 32%; *P*: .002). We found that comorbidities were very common in both groups (4±2 comorbidities/patient), the most prevalent in both groups being similar: hypertension, obesity, dyslipidemia, and diabetes (Table 1). It is of particular interest to see that the reason for admission among a significantly greater percentage of asthmatics was pneumonia: 22% vs 9% in the COPD group (*P*>.002). Unfortunately, we do not have patient data on the use of corticosteroids or on their immunization status.

Table 1
Demographic Characteristics and Comorbidities of Asthma and COPD Patients.

Variables	COPDN=210	AsthmaN=90	P-value
Sex (% women)	15	83	.0001
BMI	28 (SD: 6)	30 (SD: 6)	.003
Active smokers (% patients)	32	15	.002
Age (years)	73 (SD: 9)	66 (SD: 16)	.0001
Length of stay (days)	5.8 (SD: 3)	5.3 (SD: 2.9)	.213
Number of comorbidities	4 (SD: 2)	4 (SD: 2)	.218
AHT (% patients)	54	56	.401
Diabetes mellitus (% patients)	30	24	.179
Depression (% patients)	10	16	.078
Ischemic heart disease (% patients)	23	7.7	.001
Arrhythmia (% patients)	20	6.6	.002
Congestive heart failure (% patients)	10	7.7	.311
Cerebrovascular disease (% patients)	5.7	2.3	.155
Arthritis/osteoporosis (% patients)	15	31	.002
Solid tumor (% patients)	20	8.8	.018
Dementia (% patients)	5.2	4.4	.514
Peripheral artery disease (% patients)	14.7	3.3	.002
Cataracts (% patients)	32.8	20	.016
Liver disease (% patients)	9	4.4	.237
Kidney failure (% patients)	12.8	6.6	.082
Dyslipidemia (% patients)	39	40	.519
Vertebral fractures (% patients)	5.2	2.2	.197
Gastroesophageal reflux disease (% patients)	11.4	5.5	.082
Sleep apnea syndrome (% patients)	23	12	.018
Bronchiectasis (% patients)	12	7.7	.141
Pneumonia in current hospitalization (% patients)	9	22	.002
Rhinosinusitis/polyposis (% patients)	3.9	25	.0001
Dermatitis/eczema (% patients)	3.3	15	.0001

AHT: arterial hypertension; BMI, body mass index; COPD: chronic obstructive pulmonary disease; SD: standard deviation.

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The literature often emphasizes the adverse effects of both systemic and inhaled steroids. Evidence is available on the risk of pneumonia in patients with COPD who continue treatment with inhaled corticosteroids, but fewer publications address the issue in asthma patients.¹ However, a recent study analyzing the adverse effects of systemic corticosteroids in a broad population of asthmatic adults in the United Kingdom² found that the most frequent adverse effects are, in fact, infections. Asthmatics must often take both inhaled and oral corticosteroids, and perhaps we need to keep in mind, much more than we do in practice, that this population is at high risk of developing pneumonia.³ While pneumococcal vaccination is specifically recommended in patients with COPD (emphysema or chronic bronchitis),³ the Spanish asthma management guidelines (GEM) call for studies to definitively establish their indication in asthma patients.⁴ Some authors believe that these guidelines are outdated with respect to pneumococcal vaccination.⁵

This issue, in our opinion, should be taken into account when reviewing an asthma patient in the office, and we should consider taking preventive measures against pneumonia, especially in obese women with hypertension and dyslipidemia. These patients have an increased risk of not only pneumonia but also hospitalization for pneumonia, and pneumonia is currently a frequent cause of admission in asthmatics, more so even than in patients with COPD.

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