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EDITORIAL

An Integrated therapeutic approach: do COPD comorbidities justify it?

Uma abordagem terapêutica integrada: as comorbilidades na DPOC justificam-na?

Chronic obstructive pulmonary disease (COPD) remains a major public health problem, causing considerable morbidity and mortality; it has risen from the fourth most common cause of death in 1990 to the third from 2010. This dark prognostication is consistent with US data showing a progressive age-specific rise in mortality from COPD in both males and females over the last 50 years.2

Previous studies in Portugal have also identified an increase in the prevalence of COPD from 5.3% in 20023 to 14.2% in 2013,4 although they were measured by somewhat different methods,5 and the number of deaths in the country accounts for up to 2,743 COPD patients per year.6 The same source6 states that 800,000 Portuguese people suffer from COPD nowadays, yet more than 660,000 are still undiagnosed.5

It is increasingly recognised that COPD often coexists with other chronic diseases and that these comorbidities contribute to patient health status and prognosis.7,8 Comorbidities and also exacerbations were introduced into the COPD definition in the second GOLD revision7 as they have a role in the severity of the disease in individual patients. Extrapolunmonary manifestations of COPD are typically believed to be linked to progression of the disease; examples such as skeletal dysfunction, lean mass depletion, and osteoporosis and osteopenia.9,10 In other comorbidities such as cardiovascular diseases (CVD), systemic inflammation has been proposed as an explanation for the association between them and COPD.11 In fact, epidemiological data suggest that COPD patients are at a greater risk of CVD compared with age- and sex-matched controls.12

Autonomic imbalance, vascular endothelial dysfunction and lower arterial compliance may be implicated in this association.11 Also the decreased physical activity observed in all severity stages of COPD patients13 may increase CVD and other comorbidities risks.

Furthermore, pulmonary neoplasms, anxiety and depression are highly prevalent in COPD patients7,8, the former because of sharing the same main risk factor: tobacco smoke, and the latter because of social isolation and physical impairment.

A recent study14 showed that comorbidities are predominantly present in “symptomatic” GOLD groups B and D.

The presence of comorbidities in these patients certainly requires proper diagnosis, quantification, and allocation of therapeutic means. It is interesting that all COPD multi component indices until very recently incorporated many domains but not comorbidities.15 However, two new indices, COTE and CODEX have explicitly incorporated comorbidities as added dimensions in the assessment of COPD severity and prognosis16,17.

In this issue of the Portuguese Journal of Pulmonology, Areias V et al18 report on the distribution of comorbidities in patients with old COPD GOLD 4, that is FEV1% predicted < 30% and/or chronic respiratory failure. The authors conclude that their high prevalence justifies the need for a comprehensive and integrated therapeutic approach.

This is a well conducted cross-sectional study with a retrospective analysis, in a well defined patient population, but it has some limitations: The absence of a control group prevented the authors from evaluating the effect of age and gender properly as well as other factors possibly implicated in the prevalence of comorbidities; the limited sample size (n = 89) could have reduced the power of sub-analyses and the importance of the results; furthermore, including only GOLD Stage 4 patients, does not allow for generalizing about the prevalence of comorbidities in the whole COPD population.

Nevertheless the results are important and similar to those reported in previous studies19-21 in relation to the prevalence of comorbidities in COPD patients.

The increased risk of lung carcinoma in the studied population are similar to that described by other authors15 and certainly might make health authorities reconsider the...
importance and utility of creating a lung cancer screening program in COPD patients. The finding that frequent exacerbators were associated with an increased risk of presenting with at least two comorbidities should point to a better way of preventing exacerbations through effective management of comorbidities.

COPD prevalence in Portugal is comparable to that of some European countries like Germany (13.2%) and Sweden (16.2%), which implies that the economic investment in COPD treatment in our country should be similar to that in those countries mentioned.

Projections and health planning regarding COPD are based on its current prevalence together with demographics, and national studies aimed at determining each of them are of crucial interest. However, a holistic estimate of the burden of COPD might include quantifying comorbidities, their severity, and therapy requirements. If this is not done, the burden of COPD will always be underestimated, and the resources allocated to disease control will remain insufficient.

References


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