

# Respiratory disorders during sleep in chronic obstructive pulmonary disease

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**Abstract:** Patients with COPD may show slow, progressive deteriorations in arterial blood gases during the night, particularly during rapid eye movement (REM) sleep. This is mainly due to hypoventilation, while a deterioration of ventilation/perfusion mismatch plays a minor role. The severity of gas exchanges alterations is proportional to the degree of impairment of diurnal pulmonary function tests, particularly of partial pressure of oxygen ( $\text{PaO}_2$ ) and of carbon dioxide ( $\text{PaCO}_2$ ) in arterial blood, but correlations between diurnal and nocturnal blood gas levels are rather loose. Subjects with diurnal  $\text{PaO}_2$  of 60–70 mmHg are distinguished in “desaturators” and “nondesaturators” according to nocturnal oxyhemoglobin saturation behavior. The role of nocturnal hypoxemia as a determinant of alterations in sleep structure observed in COPD is dubious. Effects of the “desaturator” condition on pulmonary hemodynamics, evolution of diurnal blood gases, and life expectancy are also controversial. Conversely, it is generally accepted that occurrence of sleep apneas in COPD is associated with a worse evolution of the disease. Nocturnal polysomnographic monitoring in COPD is usually performed when coexistence of sleep apnea (“overlap syndrome”) is suspected, while in most other cases nocturnal oximetry may be enough. Nocturnal oxygen attenuates sleep desaturations among stable patients, without increases in  $\text{PaCO}_2$  of clinical concern. Nocturnal treatment with positive pressure ventilators may give benefit to some stable hypercapnic subjects and patients with the overlap syndrome.

**Keywords:** COPD, sleep, hypoxemia, oxygen, mechanical ventilation

Chronic obstructive pulmonary disease (COPD) is usually diagnosed in subjects with a clinical history of exposure to pulmonary risk factors who show a poorly reversible bronchial obstruction (NHLBI/WHO 2005). During wakefulness, abnormalities of respiratory function are demonstrated by standard pulmonary function tests (PFTs): among them, spirometry and arterial blood gas analysis are the most generally used to define the degree of severity of COPD. A more complete evaluation of patients with this disease includes the assessment of sleep gas exchanges, which worsen to a variable extent with respect to wakefulness.

COPD is a high and increasingly prevalent disease. At present, its treatment only partially affects prognosis and quality of life. Our ability to predict prognosis of affected patients is improving (Celli et al 2004), but is still imperfect. A better knowledge of the aspect of respiratory function during sleep could probably improve our approach to the disease.

## Features of sleep respiratory disorders in COPD

During sleep, minute ventilation physiologically decreases with respect to wakefulness (Douglas, White, Pickett, et al 1982), while pressure of oxygen in arterial blood ( $\text{PaO}_2$ ) falls and pressure of carbon dioxide ( $\text{PaCO}_2$ ) increases (Midgren and Hansson 1987). In healthy young subjects, as well as in many patients with respiratory diseases who are normoxemic while awake, the  $\text{PaO}_2$  reduction does not significantly reduce

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# Respiratory Disorders During Sleep

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## **Respiratory Disorders During Sleep:**

Breathing Disorders During Sleep National Heart, Lung, and Blood Institute. Division of Lung Diseases,1994

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