

Case Report

Obstructive sleep apnea syndrome in patients attending a psychiatry outpatient service: A case series[☆]



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ABSTRACT

Background: Obstructive sleep apnea syndrome (OSAS) is a condition associated with multiple negative outcomes. People with mental illness might be at increased risk of having it, given that medication given has adverse effects on weight and there are alterations in sleep associated with them; however, there are few studies in this population.

Objective: Describe the patients and the results of polysomnography ordered based on clinical symptoms in a psychiatric outpatient clinic between 2012 and 2014.

Methods: A case series in which medical records were evaluated.

Results: 58 patients who underwent polysomnography, 89% of them had OSAS, 16% were obese and 19% were been treated with benzodiazepines.

Conclusions: This is a condition that must be considered during the clinical evaluation of patients with mental illness, since its presence should make clinicians think about drug treatment and follow up.

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Síndrome de apnea obstructiva del sueño en personas atendidas en consulta externa de psiquiatría: serie de casos

RESUMEN

El síndrome de apnea obstructiva del sueño (SAOS) se asocia a múltiples desenlaces negativos. Se ha propuesto que las personas con enfermedad mental están en mayor riesgo, en parte por sobrepeso y por las alteraciones del sueño asociadas con algunos medicamentos. Sin embargo, son pocos los estudios en esta población.

Palabras clave:

Síndrome de apnea obstructiva del sueño
Trastorno depresivo

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Trastornos de ansiedad
Esquizofrenia
Trastorno afectivo bipolar
Reporte de casos

Objetivo: Describir a la población y el resultado de las polisomnografías solicitadas ante sospecha clínica en pacientes de consulta externa de una clínica psiquiátrica.

Métodos: Estudio descriptivo de una muestra de pacientes consecutivos atendidos entre 2012 y 2014.

Resultados: De los 58 pacientes de los que se solicitó polisomnografía, 52 (89%) presentaban SAOS. De estos, el 16% cursaba con obesidad y el 19% tomaba benzodiazepinas.

Conclusiones: Esta es una enfermedad que se debe tener en cuenta durante la evaluación clínica de los pacientes con enfermedad mental, dado que su presencia implica precaución al plantear el tratamiento farmacológico y hacer el seguimiento.

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Introduction

Obstructive sleep apnoea syndrome (OSAS) is classified as a “breathing-related sleep disorder” and is characterised by repetitive closure of the upper airway during sleep, with decreased arterial oxygen saturation. The standard diagnostic method is polysomnography, and severity is classified according to the number of apnoea and hypopnoea events per hour. This disorder is mild if there are between 5 and 15 events plus some symptoms (such as excessive sleepiness, unrefreshing sleep, fatigue, insomnia, difficulty breathing at night, choking sensation during the night, breathing interruptions or loud snoring); moderate if there are more than 15 but less than 30, and severe when there are more than 30 events/h.¹

OSAS is a highly prevalent disorder that is estimated to affect between 4% and 8% of adults, and has significant negative repercussions on quality of life and considerable associated morbidity and mortality.²⁻⁴ Although OSAS was defined in the 1970s, its negative impact on mortality and quality of life was only documented some 20 years ago. OSAS patients are at greater risk of hypertension, insulin resistance, diabetes mellitus, coronary events, cerebrovascular events, cognitive alterations, perioperative complications, in-hospital mortality and all-cause mortality, as well as occupational and traffic accidents.⁵⁻⁷ This is why it is so important to make the initial diagnosis and start treatment. Risk factors for OSAS include obesity, male gender, aged over 50, family history, nasal obstruction, use of alcohol or sedatives, cigarette smoking, gastro-oesophageal reflux, hypothyroidism and acromegaly, among others.^{8,9}

Few studies have been published on the association between OSAS and the development, prognosis and impact of mental illness. It has been suggested that individuals with mental illness may be at increased risk of suffering from OSAS due to weight gain caused by most antipsychotics and mood stabilisers, the presence of respiratory events related to the use of sedative drugs, and a less healthy lifestyle.¹⁰⁻¹⁴ A search of PubMed using the MeSH terms “Depressive Disorder, Major” and “Sleep Apnoea, Obstructive” retrieved 18 articles, one of which found that, according to a study of a database of over 2 million obese individuals, OSAS patients are at increased risk of depression (odds ratio [OR]=1.85; confidence interval [CI], 1.80-1.88; $p < 0.001$).¹⁵ Another study evaluated 53 people with coronary heart disease, and found a similar prevalence of depression in patients with and without OSAS.¹⁶ However,

the small sample size prevented the authors from drawing definitive conclusions. A more recent systematic review found that up to 69% of individuals with bipolar affective disorder presented OSAS, albeit in studies with a high risk of selection bias.¹⁷ A systematic review of the literature on people with major mental illness found a prevalence of 36.3% for OSAS in people with major depressive disorder, 24.5% in patients with bipolar affective disorder and 15.4% in patients with schizophrenia. However, a review of the articles included showed that some had requested polysomnography due to suspicion of OSAS, such as medication-induced symptoms of daytime sleepiness, and this may have distorted the true prevalence.¹⁸ Furthermore, a study in older people found that apnoea-hypopnoea is associated with poor cognitive functioning and increased risk of dementia.^{19,20}

The aim of this study is to describe the general characteristics and polysomnographic parameters of a sample of psychiatric patients seen on an outpatient basis in a psychiatric clinic.

Material and methods

This is a descriptive study of a series of consecutive patients undergoing polysomnography for clinical suspicion of OSAS in a psychiatric clinic. The outpatient department of the clinic attends approximately 5000 adult patients per month, whose health insurance mainly covers individuals living in the city of Bogotá. Data from the medical history of patients seen in a psychiatry outpatient clinic between 2012 and 2014 were collected. The information obtained from the medical records was organised and summarised in a Microsoft[®] Excel[®] 2013 spreadsheet, which also calculated the summary measures of the findings using measures of central tendency and dispersion. The study was approved by the institution’s ethics committee and is classified as risk-free research, since data were taken from the medical history and no intervention or data collection was performed.²¹

Results

Table 1 shows the general characteristics of the study sample formed of 58 adults, mostly female, half of whom were overweight. The median Epworth Sleepiness Scale score was 7 (0-24) points, and 52 patients (89%) met OSAS diagnostic

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