A Clinical Snapshot of Demographic Characteristics and Comorbidities Among Adults Newly Diagnosed With Idiopathic Hypersomnia

Idiopathic hypersomnia is a rare central disorder of hypersomnolence characterized by^{1,2}:



- Chronic excessive daytime sleepiness
- · Severe sleep inertia
- · Impaired productivity at work or school



- · Prolonged nighttime sleep
- · Long, unrefreshing naps

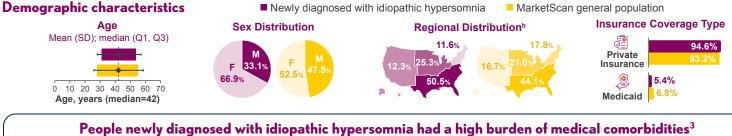


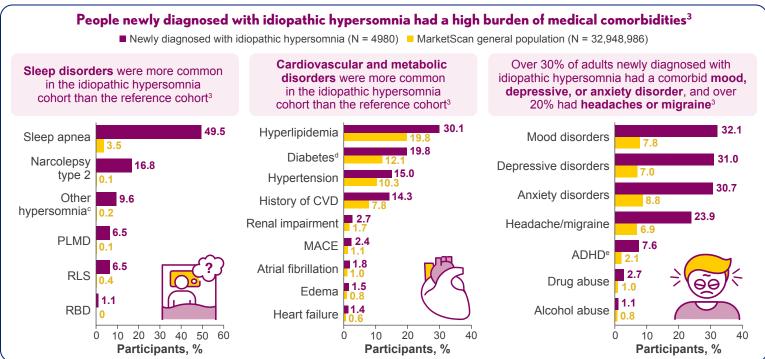
- · Cognitive impairment
- · Decreased health-related quality of life



A retrospective observational study examined the characteristics of a large cohort of people newly diagnosed with idiopathic hypersomnia using the IBM® MarketScan® database, a nationally representative sample of Americans with employer-sponsored insurance³

- The MarketScan general population included 32,948,986 adults with ≥12 months continuous enrollment from 2014 to 2019 and no diagnosis of idiopathic hypersomnia in the 12 months prior to cohort entry³
- Comorbidities^a in the 12 months prior to diagnosis (idiopathic hypersomnia group) or study entry (general population) were evaluated³
- 4980 people (0.015%) in the MarketScan general population were newly diagnosed with idiopathic hypersomnia from 2015 to 2019³
- Approximately two-thirds (69.1%) had a diagnosis code for idiopathic hypersomnia with long sleep time
- The most frequent specialties of diagnosing physicians were pulmonology (23.3%), neurology (14.4%), and internal medicine (11.4%)





Understanding the comorbidities of patients with idiopathic hypersomnia is important when considering a treatment plan, and could help guide future research on the possible association between comorbidities and disease pathophysiology

*Conditions of interest were prespecified and selected with clinical input, and included cardiovascular disorders, metabolic disorders, psychiatric disorders, substance use disorders, and other disorders (chronic kidney disease, headache/migraine, hyperuricemia, pulmonary fibrosis or interstitial lung disease, and renal impairment).

bUnknown/missing percentages: Newly diagnosed with idiopathic hypersomnia, 0.2%; MarketScan general population, 0.4%.

bUnknown/missing percentages: Newly diagnosed with idiopathic hypersomnia, 0.2%; MarketScan general population, 0.4%.

bUnknown/missing percentages: Newly diagnosed with idiopathic hypersomnia, 0.2%; MarketScan general population, 0.4%.

bUnknown/missing percentages: Newly diagnosed with idiopathic hypersomnia, 0.2%; MarketScan general population, 0.4%.

*Diabetes comorbidity determined based on diagnosis or use of a diabetes/obesity medication.

Prevalence of ADHD was determined in a post-hoc analysis.

Abbreviations: ADHD, attention-deficit/hyperactivity disorder; CVD, cardiovascular disease; F, female; M, male; MACE, major adverse cardiovascular event; PLMD, periodic leg movement disorder; Q, quartile; RBD, rapid eye movement behavior disorder; RLS, restless leg syndrome; SD, standard deviation.



A Clinical Snapshot of Comorbidities Among Adults With Narcolepsy

Narcolepsy is a chronic neurologic sleep disorder characterized by: 1,2



Excessive daytime sleepiness



Cataplexy Present in narcolepsy type 1; absent in narcolepsy type 2



Hypnagogic/ Hypnopompic hallucinations



Demographics and Characteristics^{3,b}

Sleep paralysis



Disrupted nighttime sleep

Burden of Narcolepsy Disease (BOND) Study

Methods

• The Burden of Narcolepsy Disease (BOND) study used US insurance claims data to analyze the prevalence of comorbiditiesa in adults with narcolepsy (n=9312) vs controls (n=46,559) matched for age, sex, geographic region, and type of insurance3

Mean (SD) Age 46.1 (13.3) years

Sex Distribution 40.8% 59.2

Matched controls (n=46.559)

Regional Distribution Insurance Type



Commercial 89.7%



Medicare 10.3%

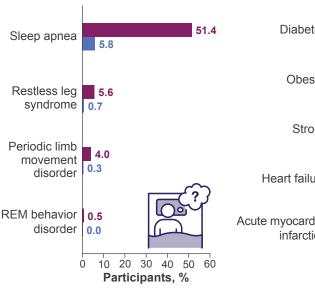
Patients with narcolepsy had a high burden of medical comorbidities³

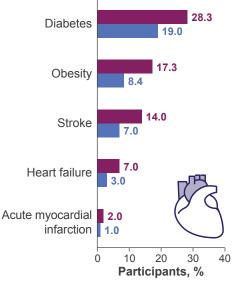
Sleep disorders were more common in the narcolepsy cohort than in the control cohort3,c

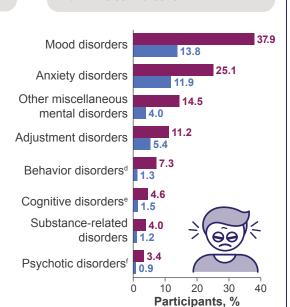
Cardiovascular and metabolic disorders were more common in the narcolepsy cohort than in the control cohort3,c

■ Narcolepsy (n=9312)

Psychiatric disorders, such as mood and anxiety disorders, were more common in the narcolepsy cohort than in the control cohort4,c







 Numerous comorbidities have been significantly associated with narcolepsy in adult populations, including other sleep disorders, psychiatric disorders, cardiovascular events and risk factors, and metabolic disorders^{3,4}

Understanding the comorbidities of patients with narcolepsy is important when considering a treatment plan

Comorbidities could occur at any time in relation to the diagnosis of narcolepsy (ie, the study captured comorbidities that were present before narcolepsy was diagnosed, as well as those that occurred after narcolepsy diagnosis).3

Demographic characteristics were the same for the narcolepsy and matched control groups

°All P<0.0001 for the difference in prevalence between the narcolepsy and matched control cohorts.^{3,4} Includes attention deficit, conduct, and disruptive behavior disorders.

Includes delirium, dementia, amnestic, and other cognitive disorders Includes schizophrenia and other psychotic disorders.

Abbreviations: BOND, Burden of Narcolepsy Disease; REM, rapid eye movement; SD, standard deviation.

