

Global Sleep Apnea Devices Market 2023

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Abstracts

The global sleep apnea devices market was valued at USD 7.07 billion in 2022 and is forecast to reach USD 10.18 billion by 2029, reflecting a compound annual growth rate (CAGR) of 5.1% during the projected period. This robust growth is driven primarily by the rising prevalence of sleep apnea worldwide, advancements in sleep apnea device technologies, and an aging global population.

The increasing rates of obesity and lifestyle diseases such as diabetes and heart disease are key factors contributing to a higher incidence and diagnosis of obstructive sleep apnea (OSA) globally. OSA is the most common form of sleep apnea, affecting approximately 14% of men and 5% of women. It is estimated that over 1 billion individuals worldwide suffer from OSA, with prevalence rates exceeding 50% in some countries.

Some of the main consequences of untreated OSA include excessive daytime sleepiness, fatigue, and increased risk for hypertension, heart disease, and stroke. As awareness and understanding of these risks grow, more patients are seeking diagnosis and treatment, driving product demand.

On the supply side, innovation focused on making sleep apnea devices more compact, convenient, and connected is shaping new product development. For example, wearable monitors now enable home-based testing and data-driven patient monitoring. Meanwhile, CPAP devices are now quieter, lighter, and record therapy data through cloud connectivity.

Combined with an aging global population more susceptible to OSA, these factors of rising prevalence and ongoing innovation are expected to propel the sleep apnea devices market to over USD 10 billion by 2029.

Market Segmentation

The global sleep apnea devices market can be segmented based on the following key factors:

Product-wise, the market is categorized into therapeutic devices like PAP machines and oral appliances; facial interfaces including CPAP masks; and diagnostic devices for screening and testing.

Demographically, segmentation is done by age groups - below 40 years, 41-60 years, and over 61 years and above. Gender-wise the market is divided into male and female segments.

By end-user, sleep apnea devices are segmented for use in sleep clinics and labs, home healthcare settings, hospitals, and other facilities.

Geographically, key regional markets covered include North America (US, Canada), Europe (Germany, France, UK, Italy, Spain), Asia Pacific (China, Japan, India, South Korea, Australia), Latin America (Brazil, Mexico, Argentina), and the Middle East & Africa (South Africa, Saudi Arabia, Turkey).

The global sleep apnea devices market can be segmented into three broad product categories: diagnostic devices, facial interfaces, and therapeutic devices. Of these, therapeutic devices account for the dominant share of the market at 73.7%.

The therapeutic devices segment consists of solutions that pneumatically splint or mechanically support the airway during sleep to treat obstructive events. Positive airway pressure (PAP) machines that deliver pressurized air via a facial interface are the primary therapy. Other key products include custom-fit oral appliances that reposition the jaw or tongue, adaptive servo-ventilators to normalize breathing patterns, hypoglossal nerve stimulators which electronically activate tongue muscles, airway clearance systems, supplemental oxygen, and related PAP consumables like tubing and masks.

Given the very high and rising prevalence of obstructive sleep apnea (OSA) globally, therapeutic devices that effectively open up the airway during sleep see significant demand. These treatments, particularly PAP and mandibular advancement oral appliances, have an established record of efficacy. Their ability to reduce apneic events, improve oxygen levels, and restore restful sleep ensures continued strong adoption.

The global sleep apnea devices market can be segmented into age groups below 40 years, between 41-60 years, and over 61 years and above. Of these demographics, the 41-60 years segment accounts for the largest market share of 51.4%.

This middle-aged group faces increased risks and susceptibility for developing obstructive sleep apnea (OSA). Key risk factors include occupational stresses, alcohol consumption, smoking, and obesity rates that peak in 40-60 year olds.

The high stress and sedentary nature of many modern desk jobs contributes to poor sleep and apnea vulnerability in this demographic. Excess alcohol usage which can relax throat muscles is also most prevalent among middle-aged adults. Cigarette smoking similarly peaks with adults aged 45-64. Obesity, a major predictor of OSA, sees escalating rates among adults over 40 as metabolism slows.

With their greater exposure to these interlinked OSA risks, individuals aged 41-60 have the highest diagnosis rates for sleep apnea. This drives strong demand for sleep testing and sleep apnea equipment in this segment. As the global population increasingly enters this middle age bracket, the over 40 demographic will propel robust growth in the sleep apnea devices market. Targeting this age group through tailored product features and marketing approaches will be key to success for device manufacturers.

Within the global sleep apnea devices market, males represent the highest share at 60.2% of total demand. This disproportionate impact on men is attributed to their greater likelihood of manifesting common obstructive sleep apnea (OSA) symptoms.

OSA prevalence among males is approximately twice as high compared to females. The reasons for this pronounced gender discrepancy are multifactorial.

For one, men tend to carry excess weight in the neck and abdomen which obstructs breathing. Male hormones like testosterone may also play a role by influencing airway anatomy and collapsibility.

Moreover, loud habitual snoring and excessive daytime sleepiness - classic OSA indicators - occur more frequently in men. These overt symptoms lead more males to seek evaluation and get diagnosed.

Among the end-users of sleep apnea devices, sleep clinics/labs account for the largest market share at 39.4%. This is attributed to sleep centers' vital role in definitively diagnosing sleep disorders through gold standard polysomnography testing.

Polysomnography involves the continuous and simultaneous monitoring of sleep-wake stages, breathing, heart rate, limb movements, and blood oxygen levels. This comprehensive physiological profiling performed by trained sleep technicians in a

specialty clinic setting is the most reliable means to identify sleep apnea and determine its exact severity.

Geographically, North America accounts for the largest share of the global sleep apnea devices market at 40.1%. North America's commanding market share is attributed to high awareness of sleep disorders, a mature medical infrastructure, and faster regulatory approvals for the latest sleep technologies. The substantial patient base and reimbursement coverage in the U.S. also propels rapid adoption of sleep apnea innovations.

Europe holds the second largest share driven by its quick uptake of technological advancements in sleep devices. Favorable healthcare policies, a consolidated medical technology sector, and higher diagnosis rates of sleep apnea drive the European market.

Meanwhile, the Asia-Pacific region represents the fastest growing regional market for sleep apnea devices. Growth is fueled by rising healthcare expenditures, increasing awareness of sleep disorders, and a vast underdiagnosed patient pool in heavily populated countries like China and India. Asia-Pacific's rapidly expanding middle class and aging populations provide a key growth opportunity for sleep device companies.

Competitive Landscape

The global market for sleep apnea devices is characterized by a diverse range of products offered by both global and local companies. These include PAP devices, oral devices, implants, and other related products. Key players in the market are committed to innovation and expanding their product portfolios to remain competitive. They invest heavily in research and development and product development to broaden their offerings. Prominent manufacturers such as APEX Medical Corporation, ApneaMed, LLC, BMC Medical Co., Ltd., Braebon Medical Corporation, Breas Medical, Inc., Cadwell Industries, Inc., Compumedics Limited, DeVilbiss Healthcare LLC., Fisher & Paykel Healthcare Limited, Inspire Medical Systems, Inc., Invacare Corporation, Itamar Medical Ltd., James R. Glidewell Dental Ceramics, Inc. DBA Glidewell, Koninklijke Philips N.V., LivaNova PLC, Natus Medical Incorporated, Nihon Kohden Corporation, Nox Medical ehf., Nyxoah SA, Onera Technologies B.V., Open Airway Dental Solutions Ltd. (Oventus Medical Ltd.), ProSomnus Sleep Technologies, Inc., RemSleep Holdings, Inc., ResMed Inc. (Curative Medical, Inc.), Siesta Medical, Inc., Signifier Medical Technologies Ltd., SomnoMed Limited, SOMNOmedics GmbH, Somnowell Ltd., Tomed GmbH, Transcend, Inc. (Somnetics International, Inc.), Vivos Therapeutics, Inc, and ZOLL Medical Corporation focus on continuous advancement and the introduction of

sophisticated sleep apnea devices with cutting-edge technologies to strengthen their position in the industry.

Recent Industry Developments

Fisher & Paykel Healthcare announced the launch of the F&P Evora Full, a compact full-face mask for obstructive sleep apnea (OSA), in the US market in April 2022.

In June 2021, Oventus Medical partnered with Aeroflow Healthcare to directly offer Oventus' OSA treatment solutions, including the O2Vent Optima, to consumers through sleep clinics in the US.

ResMed, a leading provider of sleep apnea devices, introduced a new positive airway pressure (PAP) device in the US sleep apnea devices market in August 2021, aiming to enhance the lives of sleep apnea sufferers.

Oventus Medical introduced the O2Vent Optima in February 2021, a customizable oral appliance therapy device that provides an alternative to continuous positive airway pressure (CPAP) therapy. This product became available to consumers through GoPAPfree in the US.

In December 2021, ZOLL Medical Corporation, a subsidiary of Asahi Kasei specializing in medical devices and software solutions, acquired Itamar Medical Ltd. Itamar Medical is a company focused on medical devices and digital health, offering home testing services for sleep-related disorders.

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10.5 Breas Medical, Inc.

10.6 Cadwell Industries, Inc.

10.7 Compumedics Limited

10.8 DeVilbiss Healthcare LLC.

10.9 Fisher & Paykel Healthcare Limited

10.10 Inspire Medical Systems, Inc.

10.11 Invacare Corporation

10.12 Itamar Medical Ltd.

10.13 James R. Glidewell Dental Ceramics, Inc. DBA Glidewell

10.14 Koninklijke Philips N.V.

10.15 LivaNova PLC

10.16 Natus Medical Incorporated

10.17 Nihon Kohden Corporation

10.18 Nox Medical ehf.

10.19 Nyxoah SA

10.20 Onera Technologies B.V.

- 10.21 Open Airway Dental Solutions Ltd. (Oventus Medical Ltd.)
- 10.22 ProSomnus Sleep Technologies, Inc.
- 10.23 RemSleep Holdings, Inc.
- 10.24 ResMed Inc. (Curative Medical, Inc.)
- 10.25 Siesta Medical, Inc.
- 10.26 Signifier Medical Technologies Ltd.
- 10.27 SomnoMed Limited
- 10.28 SOMNOmedics GmbH
- 10.29 Somnowell Ltd.
- 10.30 Tomed GmbH
- 10.31 Transcend, Inc. (Somnetics International, Inc.)
- 10.32 Vivos Therapeutics, Inc
- 10.33 ZOLL Medical Corporation

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