Apnimed

Investor Presentation

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APNIMED IS DEDICATED TO SLEEP-RELATED BREATHING DISEASES

Lead Product Candidate (AD109) - Completed 2 of 2 Phase III trials

• First-in-class, once-daily oral therapy combining a novel antimuscarinic and a selective norepinephrine reuptake inhibitor

Lead Indication – *Mild-to-Severe Obstructive Sleep Apnea (OSA)*

- Intermittent oxygen deprivation, associated with substantial symptoms, negative impact on quality of life and significant long-term health risks
- Positive and clinically meaningful results from SynAlRgy and LunAlRo Phase III trials on both primary and secondary endpoints
- Population estimated at 80M in the US and 1B WW. 23M+ diagnosed US patients over past 5 years
- Approved treatments have significant limitations:
 - Low adherence to standard of care (CPAP)
 - <50% of patients eligible for GLP-1s; most exhibit residual OSA after month 12

Pipeline

Other sleep-related breathing diseases

Key upcoming Events

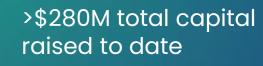
AD109 NDA submission



Intellectual Property

- Patents granted to 2041
- WW rights to all IP





>70 employees

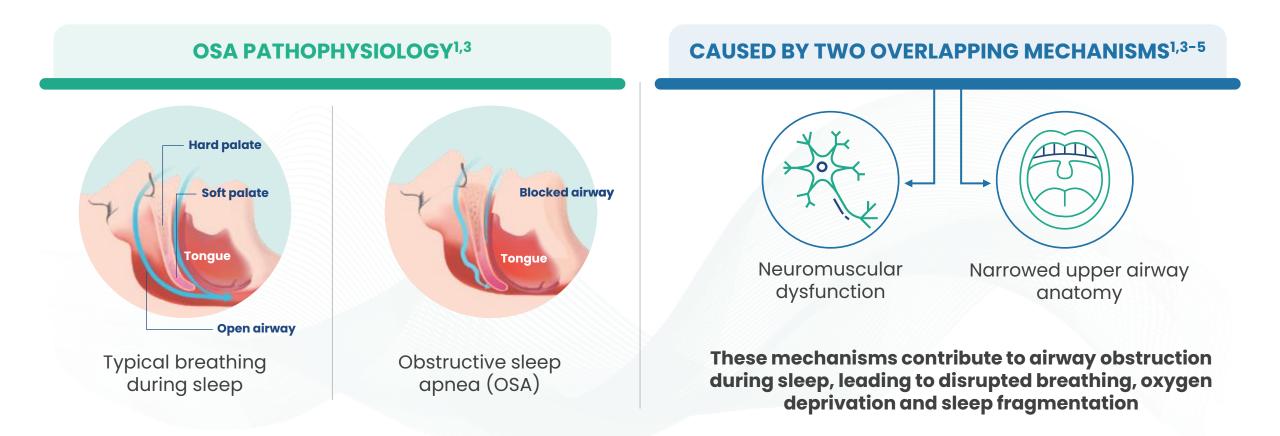
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APNIMED LEADERSHIP TEAM _____

OSA IS A SERIOUS CHRONIC SLEEP-RELATED BREATHING DISEASE^{1,2}

where the upper airway repeatedly collapses, causing airway obstruction



Dempsey DA, et al. Physiol Rev. 2010;90(1):47-112.
 Heilbrunn ES, et al. BMJ Open Respir Res. 2021;8(1):e000656.
 White DP, Younes MK. Compr Physiol. 2012;2(4):2541-2594.
 Taranto-Montemurro L, et al. J Clin Med. 2019;8(11):1846.
 Perger E, Taranto-Montemurro L. Curr Opin Pulm Med. 2021;27(6):505-513.



OSA CAN SIGNIFICANTLY IMPACT PATIENTS' HEALTH AND QUALITY OF LIFE

CHRONIC MANIFESTATIONS¹⁻⁴

- Cardiovascular Disease
- Metabolic Disease
- Memory loss
- Depression

ACUTE MANIFESTATIONS⁵

- Fatigue
- Daytime sleepiness
- Cognitive impairment
- Loud snoring
- Dysphoria
- Work-related and motor vehicle accidents
- Headache

PSYCHOSOCIAL MANIFESTATIONS⁹

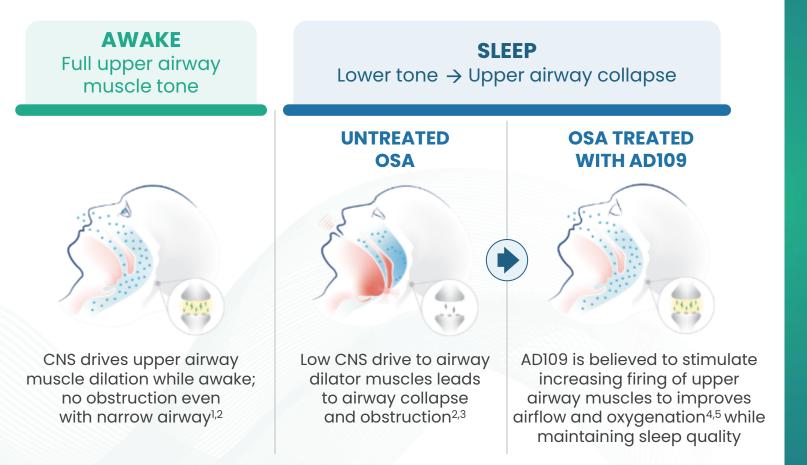
- Ability to achieve career goals
- Be present for loved ones
- Share bed with partner

Without timely diagnosis and treatment, **even mild OSA** (AHI of 5-15) is associated with negative cardiovascular, neuropsychological, and quality of life outcomes.⁶⁻⁸

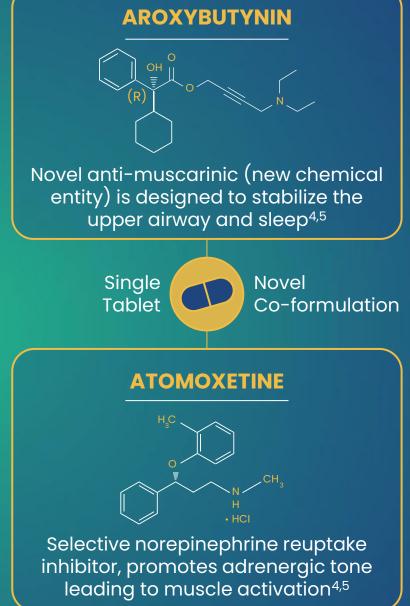
1. Dewan NA, et al. Chest. 2015;147(1):266-274. 2. Marin JM, et al. Lancet. 2005;364(9464):1046-1053. 3. Zhao DF, et al. Sleep Breath. 2024. doi: 10.1007/s11325-024-03083-4. 4. Punjabi NM et al. PLoS Med 2009; 6(8):e100132. 5. Kapur VK, et al. J Clin Sleep Med. 2017;13(3):479-504. 6. Jackson ML, et al. J Clin Sleep Med. 2018;14(1):47-56. 7. Barnes M, et al. Am J Respir Crit Care Med. 2002;165(6):773-780. 8. Wimms AJ, et al. ERJ Open Res. 2024;10(1):00574-2023. 9. Sleep Health Inquiries on Needs and Emotions 2024



AD109 IMPROVES UPPER AIRWAY OBSTRUCTION

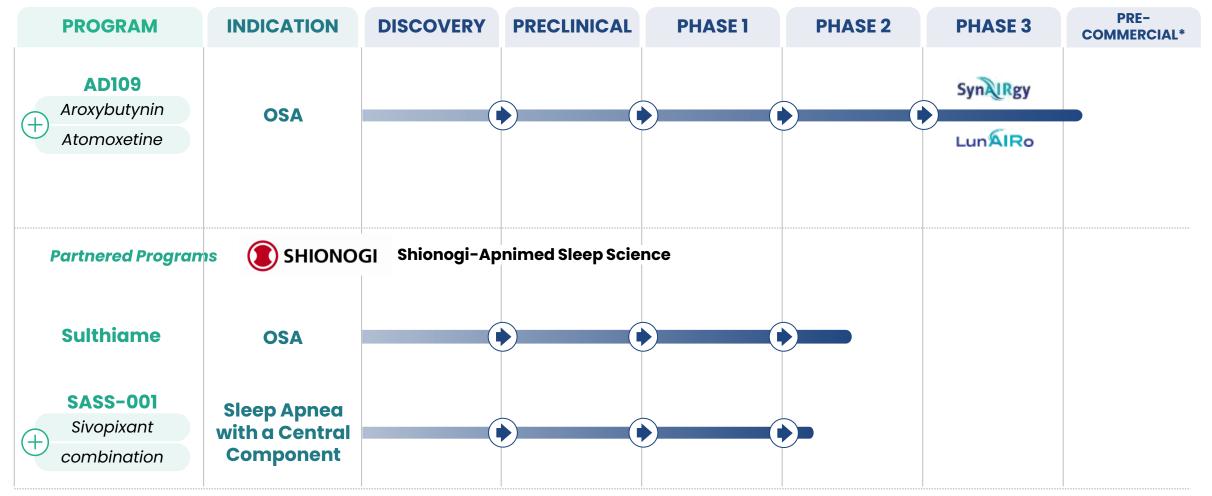


1. Dempsey DA, et al. Physiol Rev. 2010;90(1):47-112. **2.** Chan E. et al. Am J Respir Crit Care Med. 2006;174(11):1264-1273. **3.** Cori JM, et al. Nat Sci Sleep. 2018;10:169-179. **4.** Schweitzer PK, et al. Am J Respir Crit Care Med. 2023;208(12):1316-1327. **5.** Taranto-Montemurro L, et al. Chest. 2020;157(6):1626-1636.



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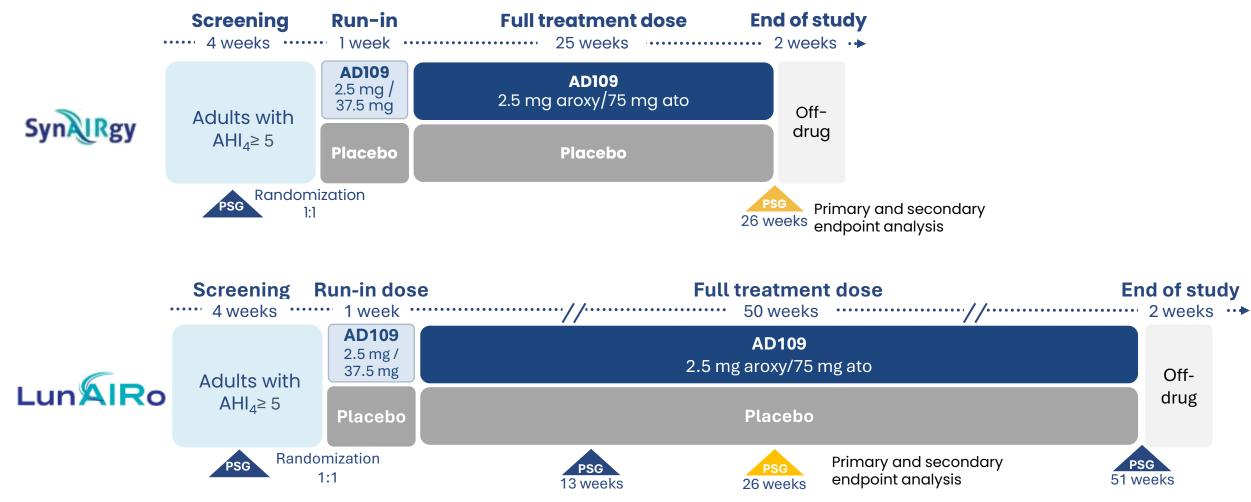
AD109 OVERVIEW

AD109 Phase 3 Program overview

	LunAIRo	SynAlRgy ²			
Topline Data	Announced July 23, 2025	Announced May 19, 2025			
Study Design & Sample Size	 Randomized (1:1) double-blind, placebo- controlled, parallel-arm Phase 3 clinical trial AD109 (aroxybutynin 2.5 mg/atomoxetine 75 mg) 12-month dosing duration, 660 participants 	 Randomized (1:1) double-blind, placebo- controlled, parallel-arm Phase 3 clinical trial AD109 (aroxybutynin 2.5 mg/atomoxetine 75 mg) 6-month dosing duration, 646 participants 			
Study Objectives	Evaluate efficacy and safety of AD109 vs placebo in adult participants with mild to severe OSA across a wide range of weight classes , who are among additional criteria, intolerant to or currently refuse PAP therapy				
Primary Endpoint	Reduction in AHI at 6 months				
Secondary Endpoints	Oxygen Desaturation Index, Hypoxic Burden, PROMIS-Fatigue, Others				
Study Population	 Adults (≥18yrs) with mild to severe OSA who decline or do not tolerate CPAP BMI <40 in men and <42 in women 				
Sites & Geographies	~65 US sites	~65 US & Canada sites			
Initiation of Recruitment	September 2023	November 2023			
Dosing	Once nightly (QHS)				
Clinicaltrials.gov Identifier	NCT05811247	NCT05813275			

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Phase 3 Study Designs

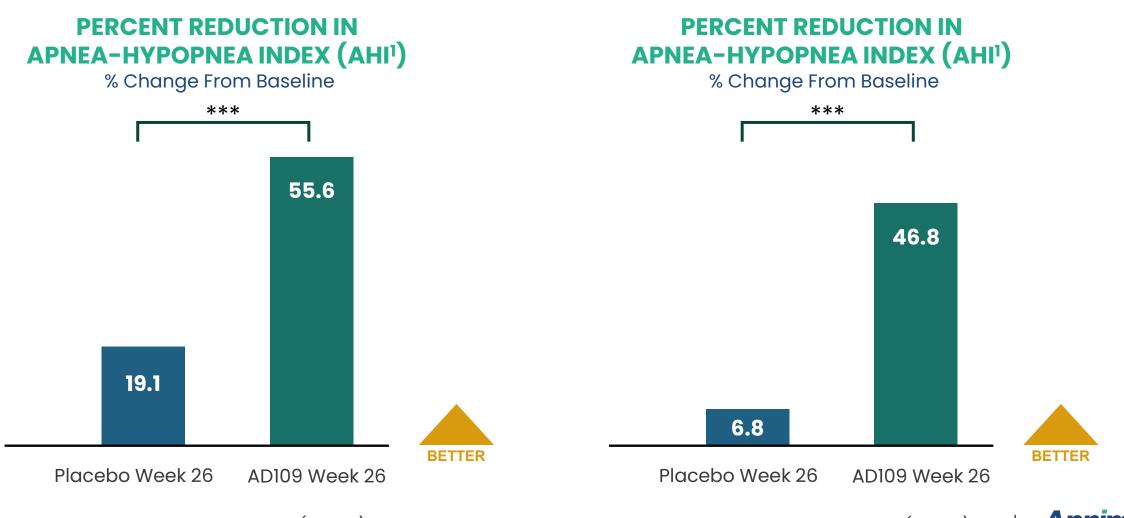


AHI₄, apnea hypopnea index based on 4% hypopnea desaturation; PSG, polysomnography.

NCT05813275. Parallel-Arm Study to Compare AD109 to Placebo With Patients With OSA (SynAlRgy Study). Accessed from: https://clinicaltrials.gov/study/NCT05813275. Last updated: March 19, 2025. Accessed May 5, 2025. NCT05811247. Parallel Arm Trial of AD109 and Placebo With Patients With OSA (LunAlRo). Accessed from: https://clinicaltrials.gov/study/NCT05811247. Last updated: May 30, 2025. Accessed Jun 17, 2025.

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Primary Endpoint Achieved in each Phase 3 trial SynAlRgy LunAlRo



Modified Intent to Treat Set (n=556)

Modified Intent to Treat Set (n=533) 12 | Applimed

SynAlRgy LunAlRo

Topline Results – Overall Summary

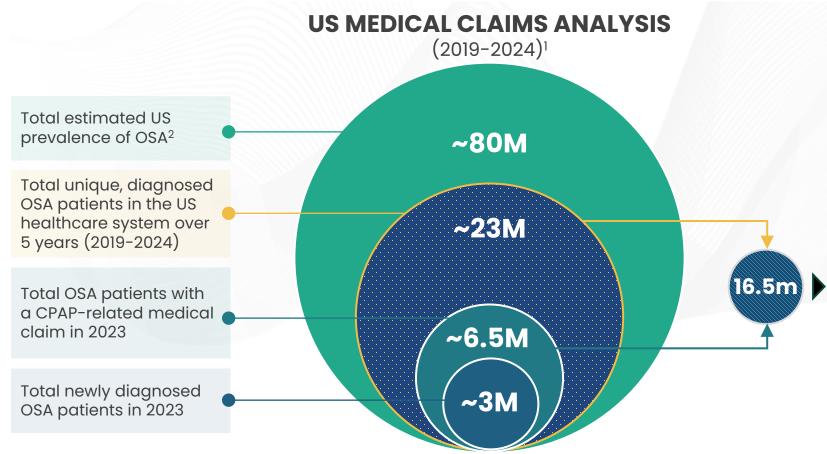
- Primary endpoint met in both trials AD109 lead to a clinically meaningful and statistically significant reduction in Apnea-Hypopnea Index (AHI) compared to placebo (p<0.001)
- Secondary endpoints met in both trials AD109 lead to a clinically meaningful and statistically significant improvement in Hypoxic Burden (p<0.0001) and Oxygen
 Desaturation Index (ODI) compared to placebo (p=0.001 & p<0.001 in the respective trials)
- Across both trials, ½ the participants treated with AD109 showed a reduction in OSA disease severity category and nearly ¼ achieved AHI<5
- AD109 was generally well-tolerated, with adverse events (AEs) consistent with prior trials; No drug-related serious adverse events (SAEs) reported.



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OSA MARKET OVERVIEW

Significant pent-up demand OSA MARKET IN THE US IS CHARACTERIZED BY VERY LARGE PREVALENCE AND LOW RATES OF DIAGNOSIS AND TREATMENT



KEY INSIGHTS

- ~23M unique diagnosis claims suggests epi data underestimates diagnosed population
- As many as ~16.5M of the 23M diagnosed are not actively treating with the standard of care
 - Of the ~3M people diagnosed with OSA every year, 25% refuse CPAP

Source: IQVIA Commercial, Medicare (all parts), Medicaid medical claims data analysis between April 2019-March 2024. Data on file. Apnimed, Inc. 2024.
 Clarivate OSA Prevalence, 2024. Data on file.



COMPETITIVE LANDSCAPE

CPAP IS THE LEGACY STANDARD OF CARE



• Majority of diagnosed patients refuse, abandon or under utilize CPAP 1-2

OSA TREATMENTS

OTHER INTERVENTIONS FOR NICHE POPULATIONS WITH STRICT ELIGIBILITY CRITERIA

- Surgical Options³
- Highly invasive
 Limited success



Moderate-to-severe only
Long approval steps and timelines



• Limited efficacy data

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Uncomfortable

EMERGING TREATMENTS

- Approved for patients with obesity and moderate-to-severe OSA
- Majority of OSA patients do not experience obesity
- Majority of patients treated with GLP1-1 have residual OSA after 1 year
- Does not target the underlying neuromuscular cause of OSA

 Source: IQVIA Commercial, Medicare (all parts), Medicaid medical claims data analysis between 2019-2023.
 Data on file. Apnimed, Inc. 2024 3. Lv R, et al. Signal Transduct Target Ther. 2023;8:218. 4. Strohl MM, et al. Curr Sleep Med Rep. 2017;3(3):133-141. 5. Strollo PJ, et al. N Engl J Med. 2014; 370(2):139-149. 6. Malhotra A, et al. N Engl J Med. 2024. doi: 10.1056/NEJMoa2404881.

THREE PROFILES OF PEOPLE LIVING WITH OSA HIGHLIGHT THE NEED FOR NEW TREATMENT OPTIONS



PROFILES OF PEOPLE LIVING WITH OSA





CPAP FRUSTRATED AND INTOLERANT

"I ditched mine after 2 months of sleepless hell."

"I slept worse with it than without. The specialist on the phone and everyone else who chimed in went on about how it can take a year to get used to it: A YEAR?!"

WEIGHT LOSS IS NOT ENOUGH

"I thought if I just lost the weight, I'd be fine."

"I've lost 30lbs. I thought the weight loss was really helping the sleep apnea, but in the past few weeks, I've woken up gasping for air almost as much as I did at my highest weight."

AVOIDING DIAGNOSIS DUE TO TREATMENT

"I think I have it but I'm afraid to admit it."

"Last year, my doctor referred me for a sleep study, and I was going to do it, but I chickened out - the idea of having sleep apnea and needing a CPAP machine just terrifies me."



US Market Research HCPS SEE BROAD UTILITY FOR AD109 ACROSS A WIDE RANGE OF PATIENT TYPES, INCLUDING OBESE PATIENTS ON GLP-1s

DEMAND & UTILIZATION STUDY

– August 2024



300¹ HCPs

PCPs, Pulms, Neuros, NPs, and other specialists

INTENDED UTILIZATION OF AD109

(among all physicians surveyed)

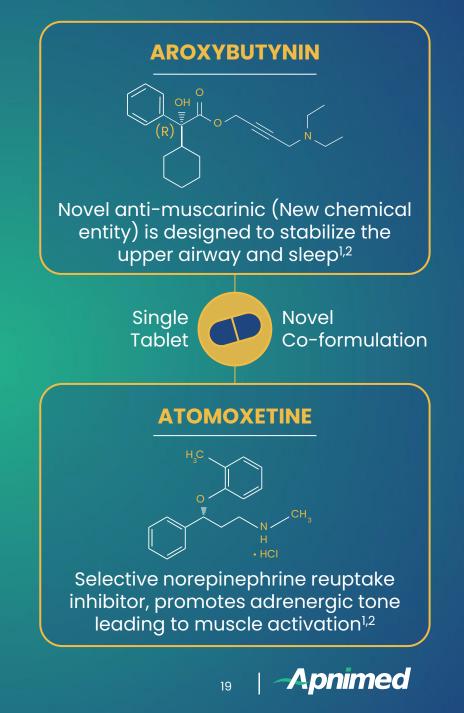
- 67% state intent to use AD109 within first 6 mos of launch
- See patients **"intolerant to PAP**²" as a top target
- **78%** say they will use **in people with and without obesity**

US Market Research (August 2024) including 100 OSA Sleep Specialists and 200 Non-Sleep specialist - high-volume OSA treaters.
 Intolerant refers to patients who refuse, started and abandoned and patients that are undertreated or not controlled by PAP.

INTELLECTUAL PROPERTY POSITION

- Method of treatment patent granted in US and other geographies for the combination of NRI + Antimuscarinic for OSA (expires 2038)
- Method of treatment patent granted in US and other major geographies for the combination of Aroxybutynin + Atomoxetine for OSA (expires 2040)
- Polymorph patent application allowed in US for novel Aroxybutynin HCl crystalline forms (expires 2041)
- Worldwide rights to all IP owned or exclusively licensed by Apnimed

1. Schweitzer PK, et al. Am J Respir Crit Care Med. 2023;208(12):1316-1327. 2. Taranto-Montemurro L, et al. Chest. 20202;157(6):1626-1636.



Shionogi-Apnimed Sleep Science: a JV accelerating new therapeutics for sleep and breathing diseases

SASS: a joint venture that combines expertises

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SHIONOGI

- Scientific, clinical and regulatory expertise in OSA
- Proven track record in drug development
- Extensive network of clinical sites for sleep disorders

- Small molecule drug discovery expertise
- Proven ability to create best-in-class compounds
- OSA is a strategic priority

JOINT VENTURE SUMMARY

- 50/50 JV ownership; both companies contribute certain IP
- Apnimed to lead clinical development; Shionogi to lead discovery efforts
- SASS is developing sulthiame for OSA, a carbonic anhydrase inhibitor with a different MoA from AD109, currently in Phase 2
- Research on new targets ongoing at multiple stages of development
- Apnimed's lead program AD109 is excluded from the JV

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OSA is a serious chronic sleep-related breathing disease where the upper airway repeatedly collapses during sleep, causing intermittent oxygen deprivation.

