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APNIMED IS DEDICATED TO SLEEP-RELATED **BREATHING DISORDERS**

Lead Product Candidate (AD109) - Completed Phase 3 Enrollment

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 severe symptoms, negative impact on quality of life and significant long-term health risks
- Positive and clinically meaningful results from MARIPOSA Phase 2b trial for 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 disorders



EXECUTE Key upcoming Events

Topline results from two Phase 3 trials in 2Q and 3Q 2025, respectively



Intellectual Property

- Patents granted to 2040
- WW rights to all IP

- \$280M total capital raised to date
- >70 employees



APNIMED LEADERSHIP TEAM



Larry Miller, MD Chief Executive Officer









Dennis Molnar Chief Operating Officer









Ron Farkas, MD, PhD Chief Medical Officer









Ramzi Benamar Chief Financial Officer









Luigi Taranto Montemurro, MD Chief Scientific Officer





Barry Wohl Chief Business Officer







Graham Goodrich Chief Commercial Officer









John Yee, MD, MPH SVP, Medical Affairs









John Cronin, MD SVP, Clinical Development







BOARD MEMBERS

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Sectoral Asset Management

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Former Chairman and CEO,

Boehringer Ingelheim US

Joe Avellone, MD Former EVP, Parexel Isaac Cheng, MD Morningside Chris Dimitropoulos Alpha Wave Global

Gary Sender Former CFO, Nabriva

SELECTED INVESTORS











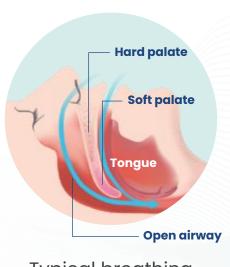




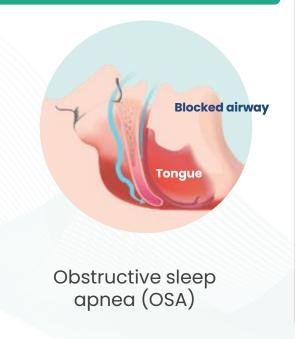
OSA IS A SERIOUS CHRONIC SLEEP-RELATED BREATHING DISEASE^{1,2}

where the upper airway repeatedly collapses, causing airway obstruction

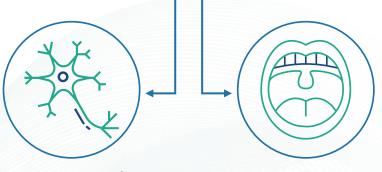
OSA PATHOPHYSIOLOGY^{1,3}



Typical breathing during sleep



CAUSED BY TWO OVERLAPPING MECHANISMS^{1,3-5}



Neuromuscular dysfunction

Narrowed upper airway anatomy

These mechanisms contribute to airway obstruction during sleep, leading to disrupted breathing, oxygen deprivation and sleep fragmentation

^{1.} Dempsey DA, et al. Physiol Rev. 2010;90(1):47-112. 2. Heilbrunn ES, et al. BMJ Open Respir Res. 2021;8(1):e000656. 3. White DP, Younes MK. Compr Physiol. 2012;2(4):2541-2594. 4. Taranto-Montemurro L, et al. J Clin Med. 2019;8(11):1846. 5. 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
- Accidents

PSYCHOSOCIAL MANIFESTATIONS⁹

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



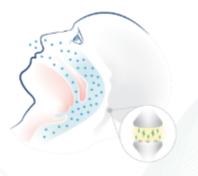
Without timely diagnosis and treatment, **even mild OSA** (AHI of 5-15) is associated with negative cardiovascular, neuropsychological, and quality of life outcomes.⁶⁻⁸



AD109 IMPROVES UPPER AIRWAY OBSTRUCTION

AWAKE

Full upper airway muscle tone



CNS drives upper airway muscle dilation while awake; no obstruction even with narrow airway^{1,2}

SLEEP

Lower tone → Upper airway collapse

UNTREATED OSA



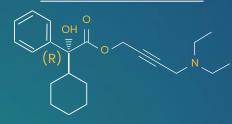
Low CNS drive to airway dilator muscles leads to airway collapse and obstruction^{2,3}

AD109 is believed to stimulate increasing firing of upper airway muscles to improves airflow and oxygenation^{4,5} while maintaining sleep quality

OSA TREATED

WITH AD109

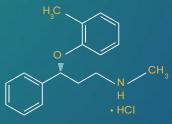
AROXYBUTYNIN



Novel anti-muscarinic (new chemical entity) is designed to stabilize the upper airway and sleep^{4,5}

Single Novel Co-formulation

ATOMOXETINE

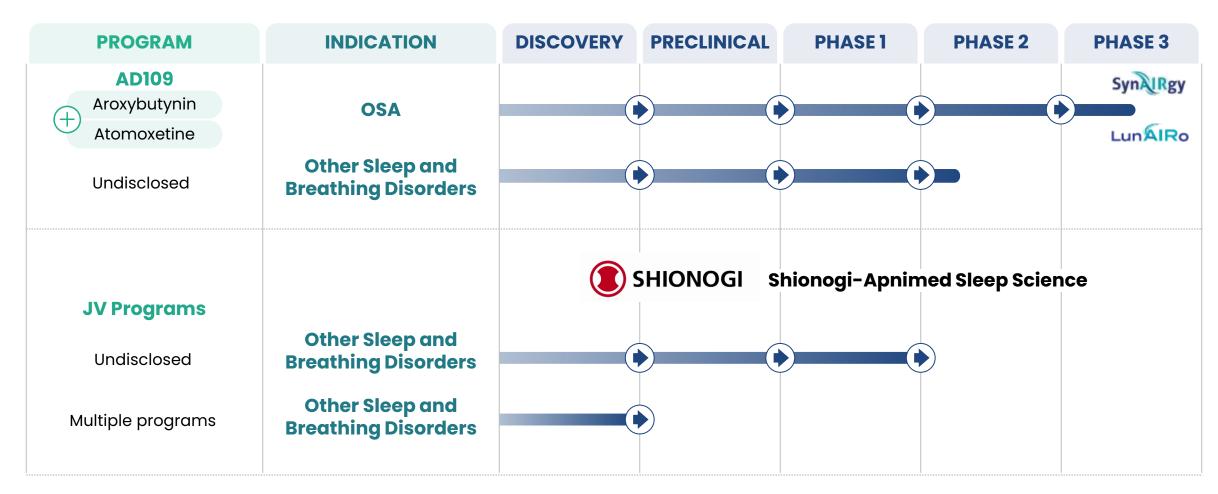


Selective norepinephrine reuptake inhibitor, promotes adrenergic tone leading to muscle activation^{4,5}

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. 20202;157(6):1626-1636.



PIPELINE



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AD109 OVERVIEW



PHASE 2B: Clinical Trial Design

Study Design & Sample Size

- ~300 participants.
- 4-week dosing duration

Primary Endpoint

Reduction in AHI at one month

Key Secondary Endpoint

• Improvement in PROMIS-Fatigue score

Study Population

- Adults with mild to severe OSA who decline or do not tolerate CPAP
- AHI 10-45 at screening/baseline

Key Takeaways:

- Robust efficacy of AD109
 - Primary Endpoint met: AHI improvement
 - Improvement of OSA symptoms (PROMIS-FATIGUE)
- Confirmed both drugs required for efficacy and safety; meets FDA "combination rule"
 - Aroxybutynin required for improved OSA symptoms, stable sleep
- Aroxy 2.5mg/Ato 75mg clear best dose for efficacy, safety and tolerability
 - All AD109 AEs mild or moderate; no serious AEs or deaths





PRIMARY ENDPOINT:



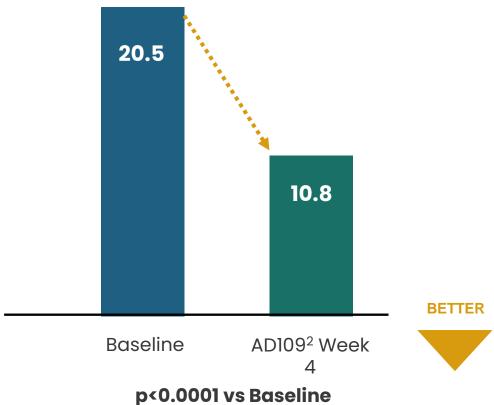
 Apnea-hypopnea index (AHI4) was reduced from a median of 20.5 (12.3-27.2) to 10.8 (5.6-18.5)

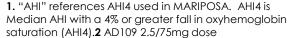
41% of all patients on the AD109 2.5/75mg dose saw their AHI¹ reduced below 10

Stable efficacy over 1 month, reassuring for success over longer Phase 3 duration

REDUCTION IN APNEA-HYPOPNEA INDEX (AHI¹)

From Median at Baseline

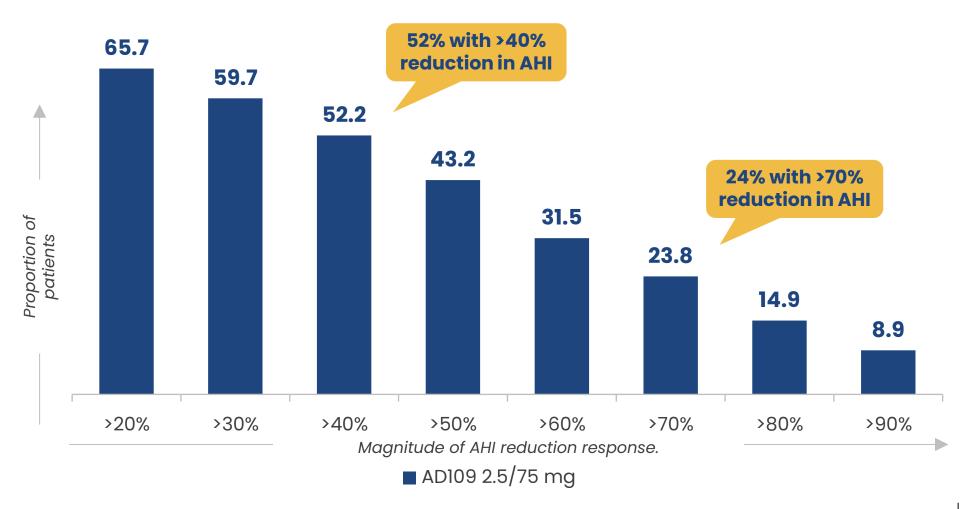






AD109 AHI¹ RESPONDER ANALYSIS

Proportion of participants reduction in AHI (%)



AD109 SHOWS POTENTIAL TO IMPROVE SYMPTOMS



PROMIS-FATIGUE patient-reported outcome (PRO)

FATIGUE CAN BE A DEBILITATING SYMPTOM OF OSA¹

PROMIS-FATIGUE is a validated scale that assesses²:

- Experience of fatigue
- Interference of fatigue with daily activities

PROMIS-FATIGUE (T-SCORE) REDUCTION RELATIVE TO BASELINE³



AD109 demonstrated a statistically significant signal with a clinically meaningful effect size

Data represent means (SEM)
*p<0.05 vs Placebo

^{1.} Chervin RD. Chest. 2000; 118(2):372-379. 2. PROMIS-Fatigue: User manual and scoring instructions. Accessed from: https://www.healthmeasures.net/images/PROMIS/manuals/Scoring_Manual_Only/PROMIS_Fatigue_User_Manual_and_Scoring_Instructions_02202023.pdf. Updated: Feb 20, 2023. 3. Schweitzer PK, et al. Am J Respir Crit Care Med. 2023;208(12):1316-1327.



AD109 SAFETY & TOLERABILTY

- No Serious Adverse Events (SAEs); no new or unexpected AEs
- AD109 well tolerated by most patients
 - Most common AEs rated as mild
 - Aroxybutynin mitigates insomnia caused by atomoxetine for most patients
 - No cases of severe insomnia

Common Adverse Events % (≥3 patients)

		<u>AD109*</u>	<u>Placebo</u>
	n	[42]	[63]
Dry mouth		24%	5%
Insomnia (any)		26%	3%
Insomnia ("mild")		16%	
Insomnia ("moderate")		10%	
Nausea		12%	3%
Urinary impairment (any)		7%	0%
Decreased appetite		5%	2%
Feeling jittery		5%	2%
Somnolence		2%	2%
Constipation		0%	3%
Discontinuations from AEs:		12%	2%

ONGOING AD109 PHASE 3 PIVOTAL TRIALS

	LunAIRo	SynAlRgy ²			
Topline Data	Q3 2025	Q2 2025			
Study Design & Sample Size	 660 participants Randomized 1:1 to placebo vs. AD109 (aroxybutynin 2.5 mg/atomoxetine 75 mg) 12-month dosing duration 	 646 participants Randomized 1:1 to placebo vs. AD109 (aroxybutynin 2.5 mg/atomoxetine 75 mg) 6-month dosing duration 			
Primary Endpoint	Reduction in AHI				
Key Secondary Endpoint	Improvement in PROMIS-Fatigue score				
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			
Enrollment	Completed in April 2024	Completed in August 2024			
Dosing	Once nightly (QHS)				
Clinicaltrials.gov Identifier	NCT05811247	NCT05813275			

^{1.} Parallel Arm Trial of AD109 and Placebo With Patients With OSA (LunAIRo). NCT05811247. Accessed from: https://clinicaltrials.gov/study/NCT05811247. Last updated: May 1, 2024. Accessed: Oct 3, 2024. Accessed from: https://clinicaltrials.gov/study/NCT05813275. Last updated: Sept 19, 2024. Accessed: Oct 3, 2024.

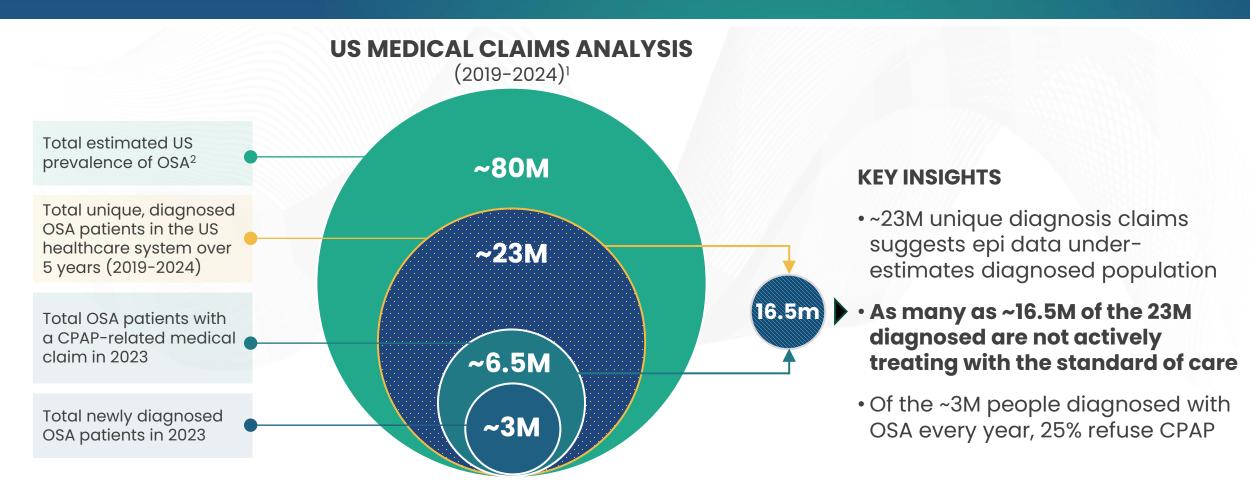


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OSA MARKET OVERVIEW

Significant pent-up demand

OSA MARKET IN THE US IS CHARACTERIZED BY VERY LARGE PREVALENCE AND LOW RATES OF DIAGNOSIS AND TREATMENT



^{1.} Source: IQVIA Commercial, Medicare (all parts), Medicaid medical claims data analysis between April 2019-March 2024. Data on file. Apnimed, Inc. 2024.

^{2.} 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 **Options**³

- Highly invasive
- Limited success



Hypoglossal Neurostimulator³⁻⁵

- Moderate-to-severe only
- Long approval steps and timelines



- Limited efficacy data
- Uncomfortable





- 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



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."

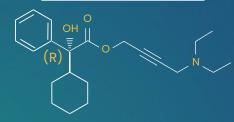
"Last year, my doctor referred me for a sleep study, and I was going to do it, but I chickened out - the idea of having sleep apnea and needing a CPAP machine just terrifies me."



INTELLECTUAL PROPERTY POSITION

- Method of use patent granted in US and other geographies for the combination of NRI + Antimuscarinic for OSA (expires 2038)
- Method of use patent granted in US and other major geographies for the combination of Aroxybutynin and Atomoxetine for OSA (expires 2040)
- Worldwide rights to all IP owned or exclusively licensed by Apnimed
- Patent families pending for Aroxybutynin Solid Forms

AROXYBUTYNIN



Novel anti-muscarinic (New chemical entity) is designed to stabilize the upper airway and sleep^{1,2}



ATOMOXETINE

Selective norepinephrine reuptake inhibitor, promotes adrenergic tone leading to muscle activation^{1,2}

OBSTRUCTIVE SLEEP APNEA

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

PREVALENCE & DIAGNOSIS



In the U.S., over ~80 million¹, ~1 Billion worldwide¹

9

~23M² unique diagnosis claims in US between 2019-2024, yet most remain undiagnosed²

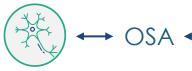


OSA spans age, sex, and body type—there is no single face of the disease

FUNDAMENTAL CAUSES

2 Overlapping Mechanisms

Neuromuscular dysfunction





Airway Narrowing

ELEVATED HEALTH RISKS





Stroke







QUALITY OF LIFE IMPACT³

74%³ report significant daytime fatigue



62%³ say it has hurt chances of achieving career goals



50%³ say they are unable to share a bed with their partner



TREATMENT LIMITATIONS



PAP is standard of care: majority of people refuse, abandon or under-utilize

GLP-1s o Limited to segment with obesity

- o Patients have residual OSA
- o No effect on neuromuscular dysfunction

OTHER NICHE TREATMENTS:

Hypoglossal Neurostimulators, Oral Appliances & Surgical interventions

AD109 OPPORTUNITY



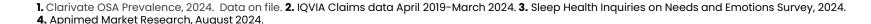
Deliver the first FDAapproved once-nightly oral therapy to treat OSA

Immediate Opportunity = 7.7M⁴ PATIENTS:

Launch focus on massive unmet need among the 7.7M people in US who refuse or have failed CPAP

BECOME THE FOUNDATIONAL TREATMENT TO ADDRESS NEUROMUSCULAR DYSFUNCTION IN OSA

Near-term growth opportunities in Primary Care and as "perfect partner" to GLP-1/GIP and CPAP



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Appendix

AD109'S SIMPLE ADMINISTRATION AND THERAPEUTIC EFFECT ON THE FIRST NIGHT HOLDS A UNIQUE POSITION IT IN THE MARKET

	AD109 -Apnimed	Cirzepatide) injection 0.5 mL 2.5 mg 5 mg 7.5 mg 10 mg 12.5 mg 15 mg	ResMed
ADMINISTRATION & EASE OF USE	Once-nightly pill	Weekly sub-cutaneous injection	Positive airway pressure machine / mask
PATIENT POPULATION	Mild, Moderate & Severe, across all body types	Moderate & Severe living with Obesity	Mild, Moderate & Severe, across all body types
MECHANISM OF ACTION	Targets neuromuscular dysfunction	Secondary effect of weight loss	Forced air pressure to open airways
SPEED OF ONSET & THERAPEUTIC EFFECT	Improvement observed on 1st night, 7-day titration	12 to 20-week titration; can take 1 year to see OSA effect	Often a month or more to set-up and optimize

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 with non-obese AND obese patients

UNMET NEED AMONG THE PAP-INTOLERANT MARKET OFFERS A LARGE IMMEDIATE OPPORTUNITY FOR AD109

Diagnosed (23.6M¹)

Undiagnosed (57M)

LAUNCH FOCUS PAP-Intolerant **7.7M**² (**37%**)

- ■~50% of this segment does not have obesity as comorbidity
- HCPs show intent to prescribe AD109 for people with & without obesity

INCREMENTAL OPPORTUNITIES

GLP-1/GIP Complement

 Most people on GLP-1/GIP have unresolved OSA PAP Complement

 Potential to reduce PAP pressure and increase adherence 1st Line For Newly Diagnosed

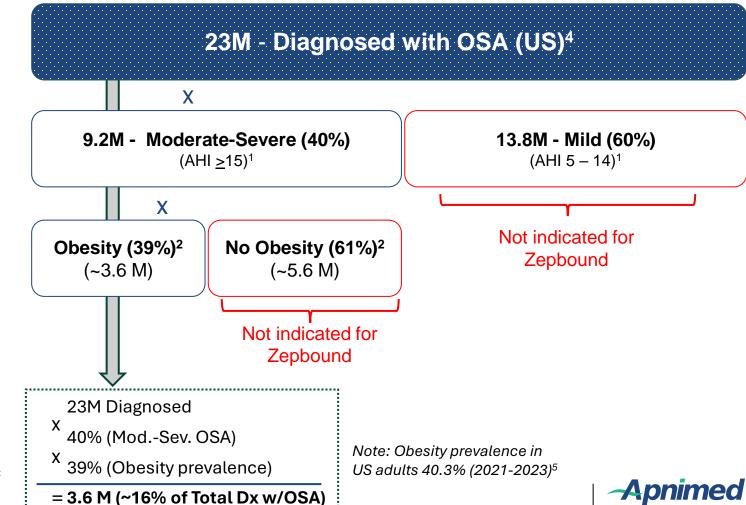
 Activate patient requests for trial

Impact of tirzepatide in OSA

ZEPBOUND (tirzepatide) expands treatment options in OSA, yet more than 80% of OSA diagnosed patients fall outside the indication

KEY TAKEAWAYS:

- New Zepbound indication is relevant to <20% of the total OSA population.
 - Key assumptions:
 - ~60% percent of people with OSA have an AHI <15 ("Mild")1
 - Prevalence of obesity in moderate-severe population is ~39%²
- GLP-1/GIP does not resolve OSA in the majority of treated patients
 - >40% of treated subjects still had AHI in moderate to severe range (AHI>15)3
 - · Weight loss dependent: up to a full year to garner the full benefit for OSA3



1. Sleep Heart Health Study. Baldwin et al., Sleep. 2001 Feb 1;24(1):96-105. 2. Esmaeli et al, presented at SLEEP congress, June 2024. 3. Malhotra et al., Tirzepatide for the treatment of OSA and obesity. NEJM 2024;391:1193-1205. 4. IQVIA Claims data April 2019-March 2024 5. Obesity and severe obesity prevalence in adults: United States, August 2021-August 2023.

https://www.cdc.gov/nchs/data/databriefs/db508.pdf

THE OSA MARKET IS RAPIDLY EVOLVING IN A MANNER THAT SUPPORTS THE PROSPECT OF RAPID ADOPTION FOR AD109

CURRENT MARKET DYNAMICS

- + **PENT-UP DEMAND:** Bolus of patients who refuse, abandon or under-utilize CPAP
- + **GROWTH IN SCREENING:** Explosion in wearable OSA screening tech (Apple, Samsung, etc.)
- + **HOME SLEEP TESTING:** Shift from in-lab to home sleep testing
- + FDA APPROVAL OF TIRZPEPATIDE: Advances
 OSA awareness and creates regulatory
 precedent
- + **HIGH ORGANIC DEMAND:** High intent to prescribe AD109 (among Sleep and Non-Sleep Specialists)

EXPECTATIONS AT AD109 LAUNCH GROWTH IN DIAGNOSIS: Driven by new Education screening, testing and treatment options **PAYER SUPPORT:** Increased understanding of the OSA implications and costs for payers Engagement **MECHANISM OF DISEASE:** More advanced understanding of neuromuscular dysfunction **NOVEL ORAL THERAPY:** New, easy-to-try oral medicine expected to drive demand from people dissatisfied with treatment options **Awareness EXPANSION OF OSA PRESCRIBER BASE:** Demand for new treatment will grow the prescriber base in OSA Patient Inquiry

COMMERCIALIZATION STRATEGY

Launch

Potential rapid penetration of AD109 as first choice or combination therapy

Pre-Launch

Establishing readiness

- Prepare the market:
 - Advance disease awareness with key stakeholders
 - Educate on unmet need with clinicians, Payers, advocacy groups
 - Drive advocacy among top 50 KOLs and top 500 regional KOLs with MSL team

- Leverage first-in-class profile to capture low-hanging fruit:
 - Large base of patients who refuse or have failed PAP
 - GLP-1/GIP patients who have not resolved disease
- 150-175 sales representatives, prioritizing top Sleep Specialists
- Use DTC to activate pent-up consumer demand
- Secure broad Payer access

Market Expansion Opportunity

- Expand sales and promotional reach targeting broader pool of OSA patients through:
 - Expanding Sales footprint to activate Primary Care diagnosis and treatment
 - Penetrating share of newly diagnosed OSA patients (>3M per year in US)

