ASAVARA

Corporate Overview

Developing New Therapies for Rare Respiratory Diseases January 2025

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MOLBREEVI (molgramostim inhalation solution) is an investigational product that has not been approved for sale or determined to be safe or effective by the U.S. Food & Drug Administration or any regulatory authority.

MOLBREEVI, MY MOLBREEVI and aPAP ClearPath are trademarks of Savara. All other trademarks included herein are the property of the owners thereof and are used for reference purposes only.

Executive Leadership Team



Autoimmune Pulmonary Alveolar Proteinosis (aPAP)

Overview and Burden of Disease



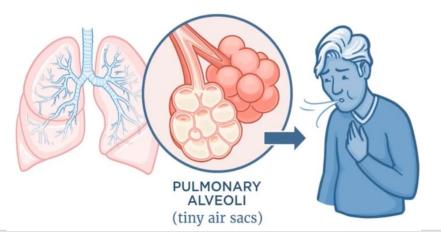
Autoimmune PAP: Disease of Alveolar Macrophage Dysfunction



Rare lung disease caused by GM-CSF autoantibodies which block GM-CSF signaling and reduce surfactant clearance. This results in:

Surfactant accumulation that blocks movement of oxygen from the alveoli into the blood

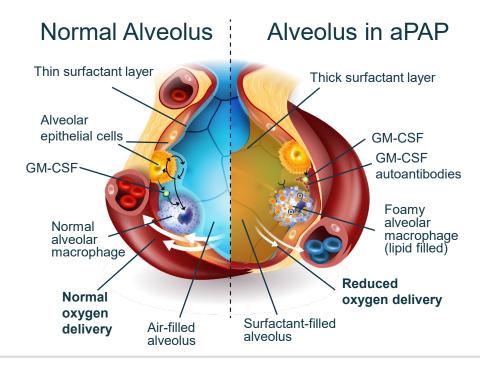
Reduced blood oxygenation results in difficulty breathing and, ultimately, hypoxemic respiratory failure



NORMAL vs ABNORMAL ALVEOLUS

Alveoli need surfactant to keep from collapsing

GM-CSF is critical for alveolar macrophage function and allows for alveolar surfactant homeostasis, structure, function, and host defense



Autoimmune PAP is a Rare, Long-Term, Chronic Lung Disease

No approved drugs in the U.S. or Europe for aPAP, only treatment option is an invasive procedure

Progressive Shortness of Breath

- Gas exchange in the lungs is impaired and patients may experience shortness of breath
- At first it occurs upon exertion, but as disease progresses, it can occur even when a person is at rest

Fatigue, Decreased Exercise Tolerance

 Fatigue and significantly reduced exercise capacity can dramatically impact the simplest of daily activities, e.g., getting winded walking up a flight of stairs

Cough and Episodes of Fever

 Cough, sputum production, and episodes of fever, especially if secondary lung infection develops

Increased Risk of Infection

 Serious infections, the most common and threatening complications of aPAP, occur in 5–13% of patients and account for 18–20% of deaths¹⁻⁴

Fibrosis and Lung Transplant

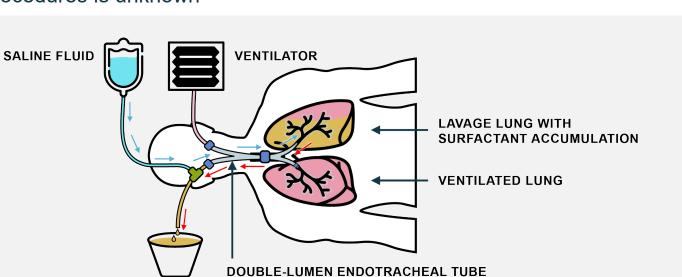
 Over time, aPAP can lead to pulmonary fibrosis and respiratory failure which can be fatal and may require lung transplantation





Whole Lung Lavage (WLL):

- Performed under anesthesia and requires hospitalization, a team of experienced HCPs, and surgical resources
- Does not correct underlying pathophysiology of the disease or prevent abnormal surfactant accumulation and often needs to be repeated
- Patients describe WLL as burdensome and emotionally taxing
- Long-term negative impact (potential lung damage) of repeated WLL procedures is unknown



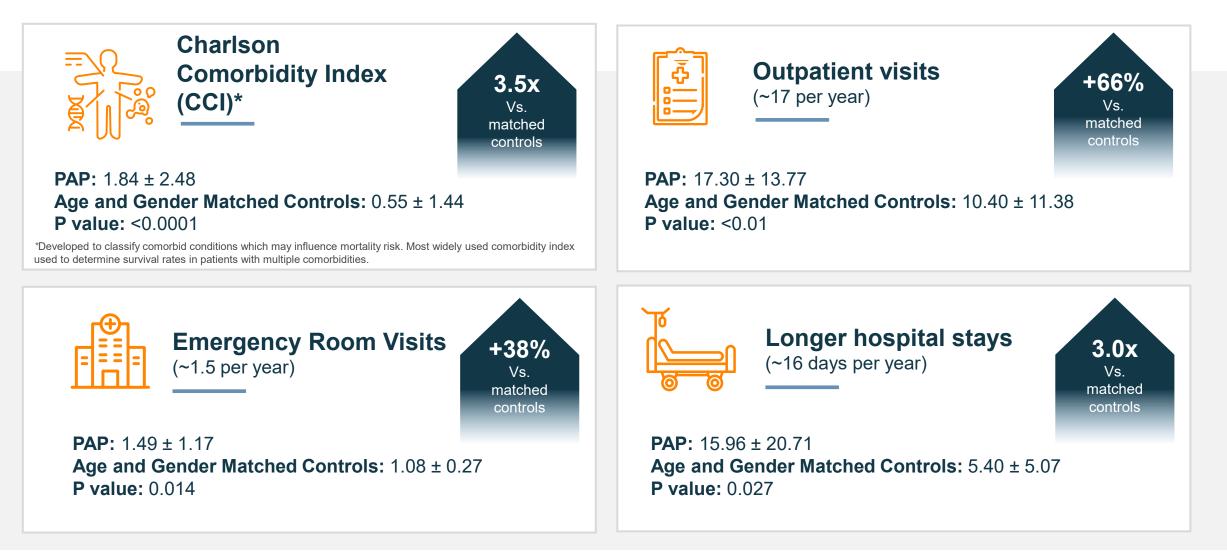
A Lung Lavage is an **Invasive Procedure Performed in a Tertiary Center and is Not** Standardized



Requires insertion of doublelumen endobronchial tube for lung separation

Sources: 1: Campo, Assessment and Management of PAP in a Reference Center, Orphanet Jour. of Rare Dis., 2013; 2: Campo, Nat. History of PAP Data from Italian Nat. Reference Center, ERJ, 2019.; Seymour, J. J. Pulmonary alveolar proteinosis: Progress in the First 44 Years, Am. J. Respir Crit. Care Med, 2002. 3: Udwadia, Jain. NEJM (2007) 357:19, 4 McCarthy, Autoimmune Pulmonary Alveolar Proteinosis. Amer. Journal of Respiratory and Critical Care Med., 2022.

Disease Burden: Autoimmune PAP Patients Have Significantly Higher Rates of Healthcare Utilization and Comorbidities¹



^{1:} McCarthy C, et al. Orphanet Journal of Rare Diseases (2018) 13:129

Patient Perspective on Living with aPAP

With whole lung lavage being the only treatment option, it's terrifying. The best way to describe it in layman's terms, it's like a car wash for your lungs. Having an alternative treatment from whole lung lavage would mean the world to me, it would give me the opportunity to get my life back. To give me the freedom of what I had before aPAP.

- Kelsea

Overall, when the surfactant builds up, I notice how much more tired I get, walking from the basement to the first floor will wind me, I'll get chest congestion and cough up yellow mucus. So, every 8 months surfactant builds up and I'll need the whole lung lavage, and it causes a lot of anxiety knowing I will need to keep having them. Having had multiple lung lavages over the years; there needs to be more options when it comes to managing aPAP."

- Eric

TO HEAR THESE PATIENTS' STORIES, PLEASE VISIT WWW.SAVARAPHARMA.COM

Disease Burden: Journey of an aPAP Patient

	CURRENT JOURNEY		POTENTIAL FUTURE JOURNEY
Symptoms and Experience Before Diagnosis	Diagnosis with aPAP	Treatment	
12 MONTHS FROM FIRST EXPERIENCING SYMPTOMS TO SEEING A PHYSICIAN	18 MONTHS AVERAGE TIME FROM FIRST SEEING A PHYSICIAN TO JAGNOSIS • aPAP diagnosis	 Whole lung lavage (WLL) Potential off-label therapies 	 aPAP ClearPath Non-invasive, no-cost, simple auto-antibody blood test to help decrease time-to-diagnosis MOLBREEVI* Clinically meaningful positive Phase 3 results that suggest MOLBREEVI may address the pathophysiology of aPAP Favorable benefit/risk profile Well tolerated Rolling BLA initiated

*MOLBREEVI is the FDA and EMA conditionally accepted trade name for molgramostim inhalation solution. It is not approved in any indication.

MOLBREEVI*

(molgramostim inhalation solution)

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SAVARA

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Savara Investigational Drug-Device Treatment for aPAP

- Once daily 300 µg inhaled MOLBREEVI (inhaled biologic)
- Proprietary eFlow[®] Nebulizer System (PARI)
 - Optimized for MOLBREEVI administration
 - Well-established manufacturer of devices used for inhalation therapy
 - 5 FDA approved nebulizers based on eFlow[®] Technology

Nebulization Time: ~5 minutes



Summary of IMPALA-2 Results

PRIMARY ENDPOINT (MOLBREEVI vs placebo)

Change from baseline to Week 24 in DLco% (p=0.0007)¹

SECONDARY ENDPOINTS (MOLBREEVI vs placebo)

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Change from baseline to Week 48 in DLco% (p=0.0008)¹

- \bigcirc
- Change from baseline to Week 24 in SGRQ Total Score (p=0.0072)¹
- Change from baseline to Week 24 in SGRQ Activity Score (p=0.0149)²

Change from baseline to Week 48 in Exercise Capacity (p=0.0234)²

SAFETY and TOLERABILITY

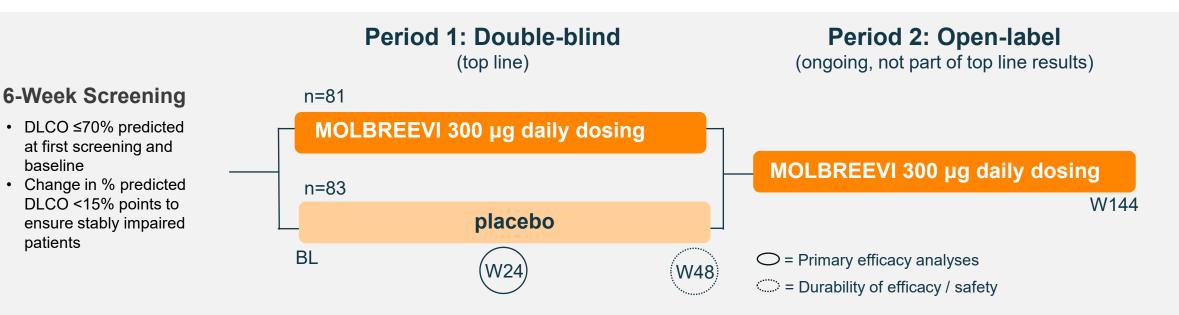
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Well-tolerated; low treatment discontinuation rate (3%), none due to drug-related adverse events

- \bigcirc
- 100% of patients who completed the double-blind period enrolled into the open-label period

DLco%, hemoglobin-adjusted percent predicted diffusing capacity of the lungs for carbon monoxide; SGRQ, St. Georges Respiratory Questionnaire. ¹Statistically significant.²Nominally significant.

Phase 3 IMPALA-2 Trial Design



PRIMARY ENDPOINT

Change from baseline in DLCO at W24

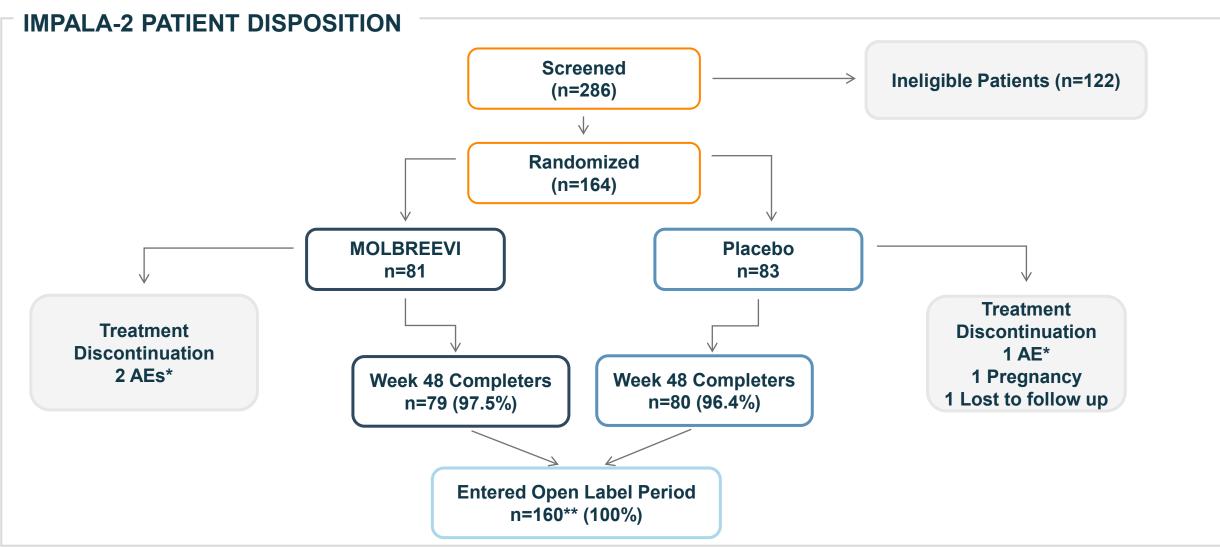
SECONDARY ENDPOINTS

Change from baseline in:

- DLCO at W48
- SGRQ Total Score at W24 and W48
- SGRQ Activity Score at W24 and W48
- Exercise Capacity at W24 and 48

Discontinuations in Double-Blind Period Were Low: 3%

Participation in Open Label Period Was High: 100% of Double-Blind Period Completers



*Not considered trial drug related

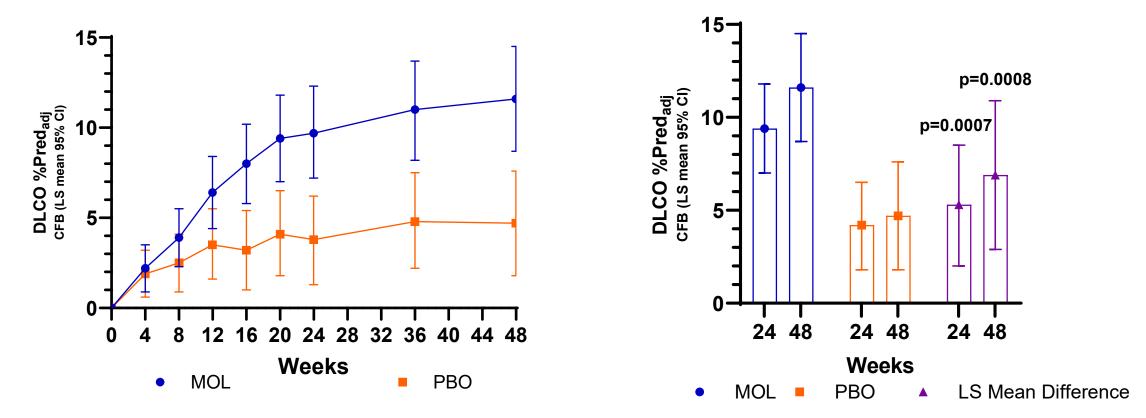
**One placebo patient stopped blinded trial drug but continued trial participation through Week 48 and entered the open label period

Demographics Were Well-Balanced Across Treatment Groups

		MOLBREEVI N=81	Placebo N=83
Age years	Mean (SD)	50.8 (13.03)	48.4 (12.69)
Sex n (%)	Male Female	44 (54.3) 37 (45.7)	54 (65.1) 29 (34.9)
Race n (%)	White Asian Black or African American Other	38 (46.9) 36 (44.4) 3 (3.7) 4 (4.9)	40 (48.2) 37 (44.6) 2 (2.4) 4 (4.8)
DLCO at baseline	Mean (SD)	52.6 (11.71)	52.6 (10.39)
DLCO stratification group	≤ 50% > 50%	31 (38.3) 50 (61.7)	32 (38.6) 51 (61.4)

Primary Endpoint Met (DLCO): Achieved Statistical Significance

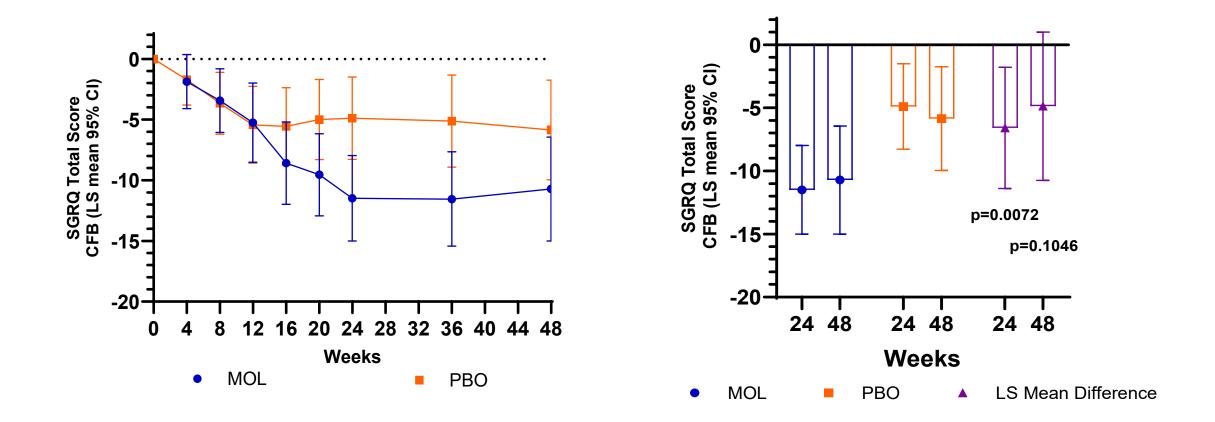
MOLBREEVI Superior to Placebo on Change From Baseline in DLCO at W24 (Primary Endpoint) and W48 (Secondary Endpoint)



P-values are for difference in LS Mean CFB between MOLBREEVI and placebo

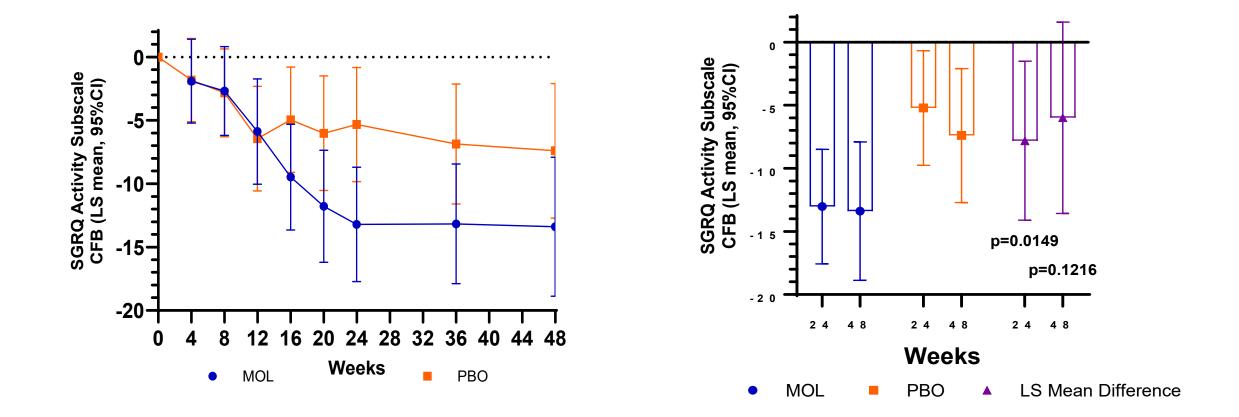
DLCO minimal clinically important difference (MCID) in change from baseline in severe COPD is a 10% increase. MOLBREEVI in aPAP showed a ~10% increase in change from baseline at W24 and ~12% increase in change from baseline at W48.

MOLBREEVI Superior to Placebo on Change From Baseline in SGRQ Total Score at W24, Favorability Continues Through W48



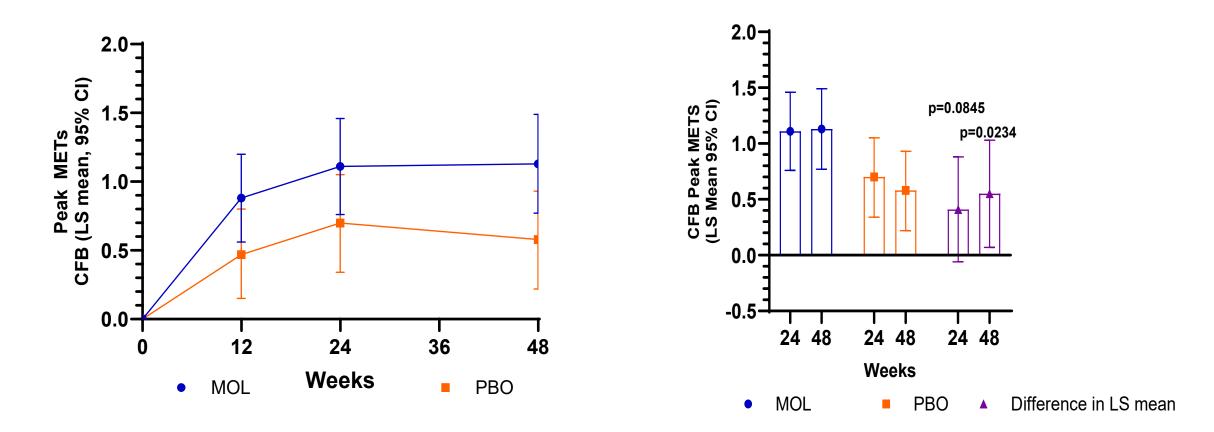
P-values are for difference in LS Mean CFB between MOLBREEVI and placebo

MOLBREEVI Nominally Significant on Change From Baseline in SGRQ Activity Score at W24, Favorability Continues Through W48



P-values are for difference in LS Mean CFB between MOLBREEVI and placebo

MOLBREEVI Nominally Significant on Change From Baseline in Exercise Capacity (Peak METs) at W48



P-values are for difference in LS Mean CFB between MOLBREEVI and placebo

Lung Lavage Was Permitted as a Rescue Therapy During the Trial

During 48-week double-blind period

- 17 (~10%) patients underwent at least one lung lavage
 - MOLBREEVI: n=6 (7.4%)
 - Placebo: n=11 (13.3%)

IMPALA-2 Safety Summary: **MOLBREEVI** Was Well-Tolerated

Treatment Emergent Adverse Events	MOLBREEVI N=81 n (%)	Placebo N=83 n (%)
Any	69 (85)	71 (86)
Severe	13 (16)	16 (19)
Treatment related	20 (25)	16 (19)
Serious	14 (17)	20 (24)
Not treatment related	13 (16)	20 (24)
Treatment related ¹	1 (1)	0
Leading to death	0	0
Leading to trial drug discontinuation	2 (2)	1 (1)
Special interest (chest pain, hypersensitivity)	9 (11)	6 (7)
Serious and of special interest	0	1 (1)

¹SAE of delusions resulting in psychiatric hospitalization in patient with a past medical history of seizure disorder treated with levetiracetam, which is labeled for psychiatric side effects, including delusions; the event was assessed as possibly related to study drug by the investigator.

IMPALA-2 Safety Summary: Most Common Adverse Events

ADVERSE EVENTS IN >10% OF PATIENTS IN ANY TREATMENT ARM DURING DOUBLE-BLIND TREATMENT PERIOD

Treatment Emergent Adverse Events	MOLBREEVI (N=81) n (%)	Placebo (N=83) n (%)
Any	69 (85)	71 (86)
Most common		
COVID-19	18 (22)	8 (10)
Cough	17 (21)	18 (22)
Pyrexia	11 (14)	9 (11)
Nasopharyngitis	11 (14)	7 (8)
Arthralgia	9 (11)	7 (8)
Headache	9 (11)	7 (8)
Diarrhea	9 (11)	2 (2)
Alveolar proteinosis	4 (5)	12 (14)
Treatment related	20 (25)	16 (19)

Overview of IMPALA-2 Results: Top Line, DSS, Responder Analyses, and GGO Data

	Measure	Timeframe	P-Value / Results
Pulmonary gas exchange	DLco%	Week 24 Week 48	0.0007 0.0008
	Disease Severity Score (DSS)	Week 24 Week 48	0.0239* 0.0006*
	Responder Analysis - DLCO%	Weeks 24 and 48	Significantly higher proportions of patients achieved each responder threshold (5%, 7%,10%) with MOLBREEVI compared to placebo
Respiratory health-related quality of life	SGRQ Total Score	Week 24 Week 48	0.0072 0.1046
	SGRQ Activity Score	Week 24 Week 48	0.0149[†] 0.1216
	Responder Analysis – SGRQ Total	Week 24 Week 48	Numerically (W24) & significantly (W48) higher proportions of patients achieved each responder threshold (-4, -8, -12-points) with MOLBREEVI compared to placebo
Patient functionality	Exercise Capacity (Peak METs)	Week 24 Week 48	0.0845 0.0234 †
Surfactant burden	Chest Computed Tomography – GGO	Week 24	0.0004*
	Whole Lung Lavage	Over 48 Weeks	Numerically favorable to MOLBREEVI compared to placebo

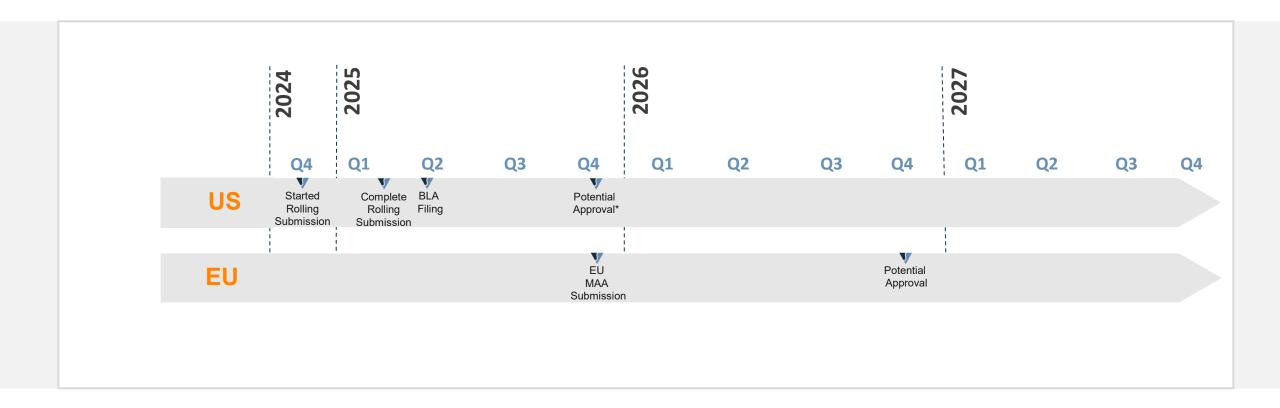
*Post-hoc analysis. *P-value nominally significant: P-value < 0.0500 but did not meet the p-value threshold required in the pre-specified hierarchical testing procedure.

DLco%, hemoglobin-adjusted percent predicted diffusing capacity of the lungs for carbon monoxide; GGO, ground glass opacification; METs, metabolic equivalents; SGRQ, St. George's Respiratory Questionnaire.

Regulatory and Intellectual Property



U.S. and European Regulatory Timeline



*Assumes Priority Review is granted by the FDA

Regulatory and IP Summary

MOLBREEVI IN aPAP REGULATORY DESIGNATIONS

- Orphan Drug Designation, Europe (eligible for 10 years exclusivity)
- Orphan Drug Designation, U.S. (eligible for 7 years exclusivity)
- Fast Track Designation, U.S.
- Breakthrough Therapy Designation, U.S.
- Innovation Passport Designation, U.K.
- Promising Innovative Medicine Designation, U.K.

BIOLOGIC EXCLUSIVITY

 Upon Biologics License Application (BLA) approval FDA would grant 12 years marketing exclusivity

INTELLECTUAL PROPERTY

- Pending patent applications for MOLBREEVI drug formulation and methods of use including treating aPAP with MOLBREEVI
- Worldwide exclusive license to proprietary eFlow[®] Nebulizer System (PARI) for MOLBREEVI in aPAP and pending joint patent application with PARI for the drug/device combination
- Proprietary cell bank for MOLBREEVI

Commercial Update



Commercial Launch Planning Advancing Against Near Term Objectives

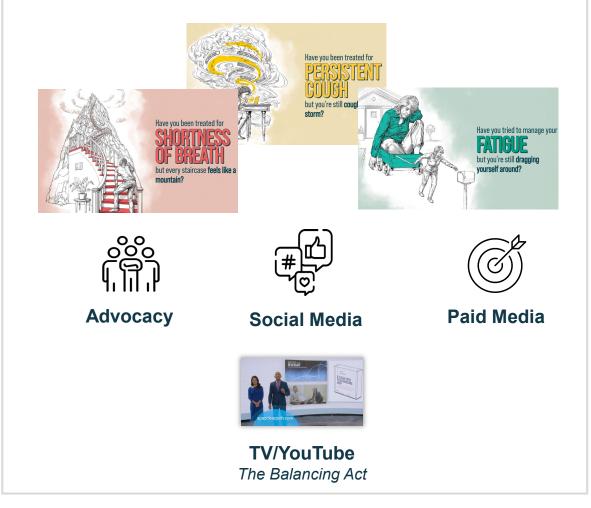
AWARENESS	INFRASTRUCTURE	PERSONNEL	TESTING
Expand awareness of autoimmune PAP among targeted health care professional and patients	Build critical capabilities to facilitate access to MOLBREEVI post approval	Hire and onboard key commercial roles to expand core activities	Evolve antibody testing platform with an eye toward long term market expansion
			F

Autoimmune PAP Disease State Awareness Campaign

Multi-channel effort across healthcare professionals and patients

HCP DSA Campaign aPAP Burden Facilitating Diagnosis ClearPath Could your patient's symptoms be masking aPAP? ary alveolar proteinosis (aPAP) is a rare lur Conferences **Tele-Educators DSA Brochure 3rd Party Email** Paid Media

Patient DSA Campaign



Exclusive Specialty Pharmacy with Integrated Patient Services

Right-sized model for first-to-market solution for orphan condition

SPECIALTY PHARMACY



- Smaller patient population is best served by a single specialty pharmacy
 - Consistency
 - Seamless provision of services
 - Clear visibility to all patient data to inform key performance indicators
- Currently evaluating partners
 - Relevant pulmonary experience
 - Demonstrated track record of exceptional patient and provider services

Single source pharmacy will service all patients with direct shipments and ongoing support

MyMolbreevi: Best in Class Support Program in Development

Program aims to reduce access barriers for appropriate MOLBREEVI patients post approval

PATIENT SERVICES

- Case management approach
 - Dedicated care navigator
 - Single point of contact

Financial assistance

- Commercial co-pay program
- Free drug for eligible patients

PRESCRIBER SERVICES

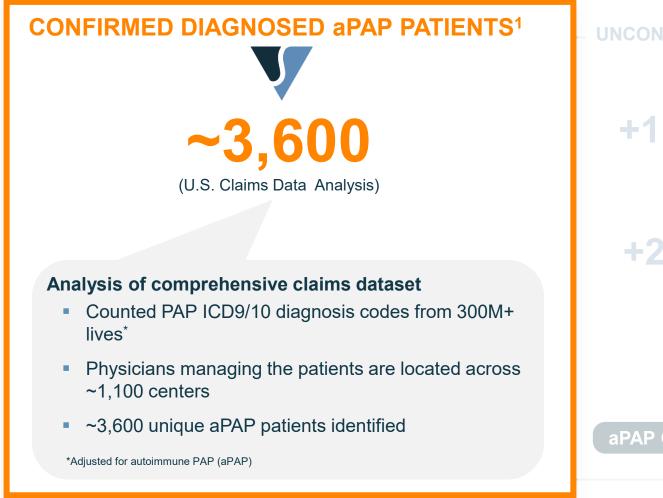
- Streamlined prescribing
- Prior authorization checklist

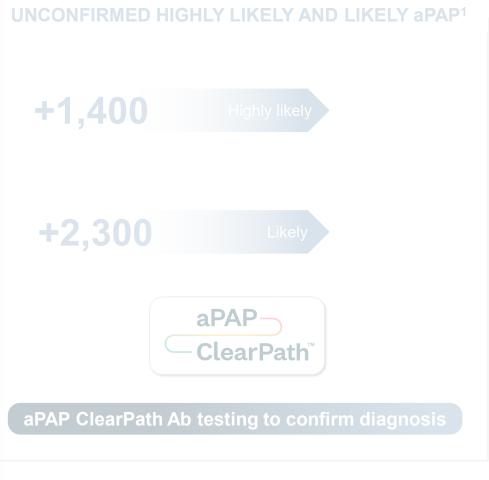
- Clinical education
 - Pharmacist calls
 - Device training
 - Nurse educators
 - Adherence support

- Insurance services
 - Prior authorization
 - Appeals

- Sample letter of medical necessity
- Sample letter of appeal

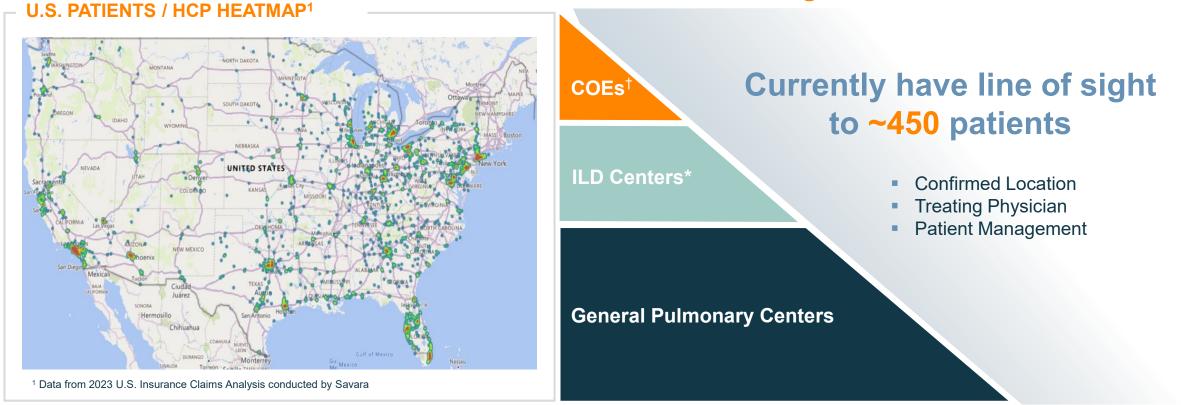
Significant U.S. Opportunity with ~3,600 Currently Diagnosed aPAP Patients





¹ Data from 2023 U.S. Insurance Claims Analysis conducted by Savara

U.S. Centers Prioritized Based on Experience Treating aPAP Patients

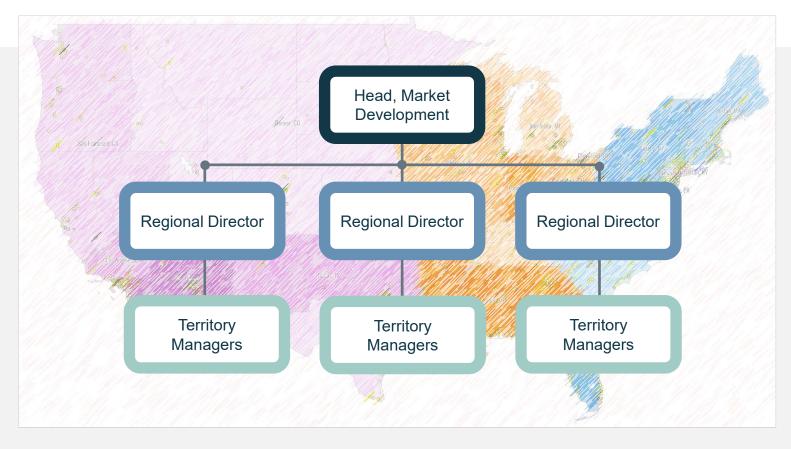


GOAL: Line of Sight to 1,000 Patients at Launch

*†PAP Center of Excellence (COE) includes healthcare organizations listed on PAP Foundation website, IMPALA-2 clinical trial sites, and other sites of expertise *ILD clinics are dedicated to the management of patients with a wide variety of interstitial lung diseases that can range from pulmonary fibrosis to rare lung diseases*

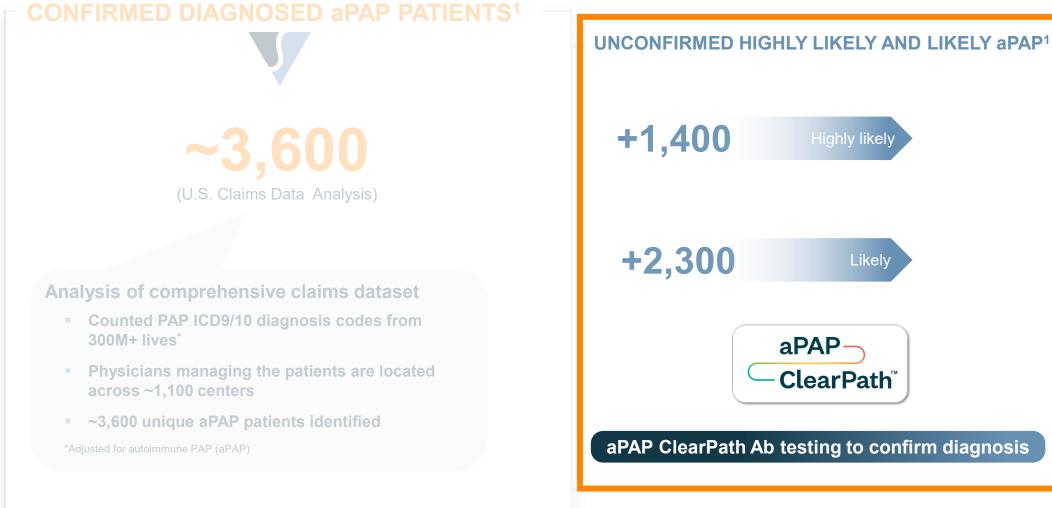
Market Development Team

Broadens market reach and accelerates pre-launch activities



- Projected market development team of ~25 people (including leadership)
- Target list of accounts expanded beyond current field medical list to broaden reach
- Territory managers will be added in waves gated to key milestones
- Key activities include:
 - Profiling accounts to gain line of sight into currently diagnosed patients
 - aPAP disease awareness and education
 - Dry blood spot (DBS) antibody testing education

Claims Data Analysis Suggests U.S. Market May Be 2x Larger



Highly likely Likely aPAP-**ClearPath** aPAP ClearPath Ab testing to confirm diagnosis

1) Data from 2023 U.S. Insurance Claims Analysis conducted by Savara

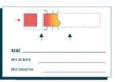
aPAP ClearPath Testing Platform

No cost antibody testing to identify aPAP among undiagnosed patients



- Launched in the U.S. and Europe
- Platform used in Interstitial Lung Disease (ILD) Clinic Pilot Program

- COMING SOON: DRIED BLOOD SPOT (DBS)



- Simple finger prick performed in a physician's office
- Removes logistical challenges to serum testing
- Target launch end of 1Q 2025

Europe (EU4+UK) Market Development is Underway

TREATMENT CENTER MAPPING¹



Country	Key Centers ¹	Est. TAM ²
Germany	11	~1,100
UK	25	~900
France	24	~900
Italy	16	~700
Spain	12	~600
Total	88	~5,000

- aPAP Centers of Excellence identified (8)
- aPAP ClearPath antibody test launched in Europe
- 62 patients in Europe enrolled in IMPALA-2 trial open-label extension³

¹ Savara 2024 EU4+ UK Primary (N= 6 EU4+ UK Principal Investigators, 5 EU4+UK Lab Directors) and Secondary Market Research ² Data from 2023 U.S. Insurance Claims Analysis conducted by Savara and extrapolated based on geographic population

³ Enrolled across 15 IMPALA-2 sites in the EU, UK, and Turkey

MOLBREEVI: U.S. Commercial Opportunity

MOLBREEVI

- Clinically meaningful benefit
- Strong stakeholder interest
- Orphan drug pricing potential
- Chronic dosing

Long Term Exclusivity

- 12-year biologic exclusivity (U.S.)
- Biosimilar competition unlikely



Efficient Rare Disease Model

- Small customer facing footprint
- Exclusive pharmacy network

Financials



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Cash runway through 2Q 2027

- ~\$219M in cash, cash equivalents and short-term investments*
- Strong investor support with coverage from 8 equity research analysts

ANALYST COVERAGE

Jefferies	Andrew Tsai
Piper Sandler	Yasmeen Rahimi, PhD
Guggenheim Securities	Vamil Divan, MD, MBA
Oppenheimer	Francois Brisebois
JMP	Jonathan Wolleben
H.C. Wainwright	Andrew Fein
Evercore ISI	Liisa Bayko, MSC, MBA
Wells Fargo	Tiago Fauth

Financial Highlights

Near- and Long-Term U.S. Market Opportunity in aPAP is Sizeable

- ~3,600 Current U.S. TAM of confirmed diagnosed patients
- **\$300K-\$500K** Orphan rare disease potential pricing power
 - ~3,700 Large pool of likely patients that are currently undiagnosed
 - Multiple Patents currently being prosecuted
 - **12-years** Biologic exclusivity in U.S. upon approval
 - **Long-term** Durable revenue stream with biosimilar competition unlikely





TAM = Total addressable market



THANK YOU

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