

# Rhythm Pharmaceuticals

Fourth Quarter/Year End 2023 Financial Results  
and Business Update

**February 22, 2024**





## On Today's Call

David Connolly, Executive Director of Investor Relations and Corporate Communications

David Meeker, MD, Chair, President and Chief Executive Officer

Jennifer Lee, Executive Vice President, Head of North America

Yann Mazabraud, Executive Vice President, Head of International

Hunter Smith, Chief Financial Officer

# Forward-looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements contained in this presentation that do not relate to matters of historical fact should be considered forward-looking statements, including without limitation statements regarding the safety, efficacy, and regulatory and clinical design or progress, potential regulatory submissions, approvals and timing thereof of setmelanotide and LB54640, including our Phase 3 trial of setmelanotide for patients with hypothalamic obesity in Japan, the United States or in Europe, the potential benefits of setmelanotide for patients with hypothalamic obesity, our expectations surrounding potential regulatory submissions, approvals and timing thereof, including the IND application for RM-718, the Company's business strategy and plans, including regarding commercialization of setmelanotide, expectations surrounding sales and reimbursement of IMCIVREE, our anticipated financial performance and financial position[, including estimated Non-GAAP Operating Expenses for the year ending December 31, 2024], the sufficiency of our cash, cash equivalents and short-term investments to fund our operations. Statements using word such as "expect", "anticipate", "believe", "may", "will", "aim" and similar terms are also forward-looking statements. Such statements are subject to numerous risks and uncertainties, including, but not limited to, our ability to enroll patients in clinical trials, the design and outcome of clinical trials, the ability to achieve necessary regulatory approvals, risks associated with data analysis and reporting, failure to identify and develop additional product candidates, unfavorable pricing regulations, third-party reimbursement practices or healthcare reform initiatives, risks associated with the laws and regulations governing our international operations and the costs of any related compliance programs, the impact of competition, risks relating to product liability lawsuits, inability to maintain collaborations, or the failure of these collaborations, our reliance on third parties, risks relating to intellectual property, our ability to hire and retain necessary personnel, general economic conditions, risks related to internal control over financial reporting, and the other important factors discussed under the caption "Risk Factors" in our Quarterly Report on Form 10-Q for the quarter ended September 30, 2023 and our other filings with the Securities and Exchange Commission. Except as required by law, we undertake no obligations to make any revisions to the forward-looking statements contained in this presentation or to update them to reflect events or circumstances occurring after the date of this presentation, whether as a result of new information, future developments or otherwise.

## Non-GAAP Financial Measures

This presentation and the accompanying oral presentation includes Non-GAAP Operating Expenses, a supplemental measure of our performance that is not required by, or presented in accordance with, U.S. GAAP and should not be considered as an alternative to operating expenses or any other performance measure derived in accordance with GAAP. We define Non-GAAP Operating Expenses as GAAP operating expenses excluding stock-based compensation and fixed consideration related to in-licensing. We caution investors that amounts presented in accordance with our definition of Non-GAAP Operating Expenses may not be comparable to similar measures disclosed by our competitors because not all companies and analysts calculate this non-GAAP financial measure in the same manner. We have not provided a quantitative reconciliation of forecasted Non-GAAP Operating Expenses to forecasted GAAP operating expenses because we are unable, without making unreasonable efforts, to calculate the reconciling item, stock-based compensation expenses, with confidence. This item, which could materially affect the computation of forward-looking GAAP operating expenses, is inherently uncertain and depends on various factors, some of which are outside of our control.

David Meeker, MD

# Continued Execution on Clinical Development, Global Commercialization

## Expand opportunity with hypothalamic obesity

- Ph 3 enrollment complete with 120 patients dosed
- On track for topline data in 1H 2025
- Agreement reached with Japan's PMDA on potential registration path
- 5,000 to 8,000 estimated HO patients estimated to be living in Japan

## Multiple development programs advancing

- Acquired license to LB54640, oral MC4R agonist in Phase 2 trials
- IND for RM-718 accepted; Phase 1 trial on track to start 1H 2024
- Ph3 trial in pediatric patients achieved primary endpoint; Type II variation submitted to EMA for label expansion, and sNDA submission on track for 1H 2024

## Strong BBS commercial execution

- \$24.2 million in net revenues from IMCIVREE sales in 4Q 2023
- >100 new prescriptions, >70 approvals for reimbursement in U.S. in 4Q 2023
- Market access achieved in Spain and Italy for BBS

**IMCIVREE**<sup>®</sup>  
(setmelanotide) injection

# Potential Path to Registration Set based on Feedback from Japan's PMDA

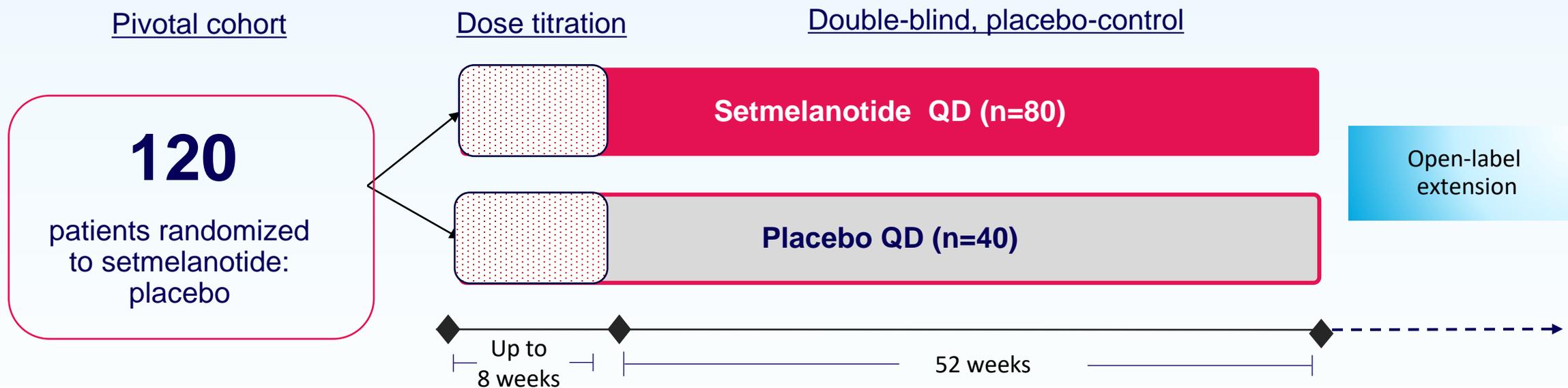
## Planned Japanese clinical development

- Supplemental cohort of Ph3 trial to enroll 12 or more Japanese patients
- First patient expected to be dosed in 3Q 2024
- Pharmacokinetic data to be collected
- Bypasses earlier-stage trials in Japanese subjects

## Regulatory submissions

- No anticipated impact on timing of anticipated FDA and EMA regulatory submissions
- Supplemental cohort in addition to pivotal dataset

# Phase 3 Hypothalamic Obesity Trial: Enrollment Complete, Top-line Data Expected in 1H2025



NOTE: Trial completion for patients enrolled in supplemental cohort, including 12 Japanese patients, does not affect regulatory submissions in the United States or European Union.

**Primary endpoint:** Mean % change in BMI from baseline to after approximately 52 weeks on a therapeutic regimen of setmelanotide compared with placebo.

# Rhythm, LG Chem Agreement Designed to Accelerate Development and Delivery of Additional Therapy Options for Patients

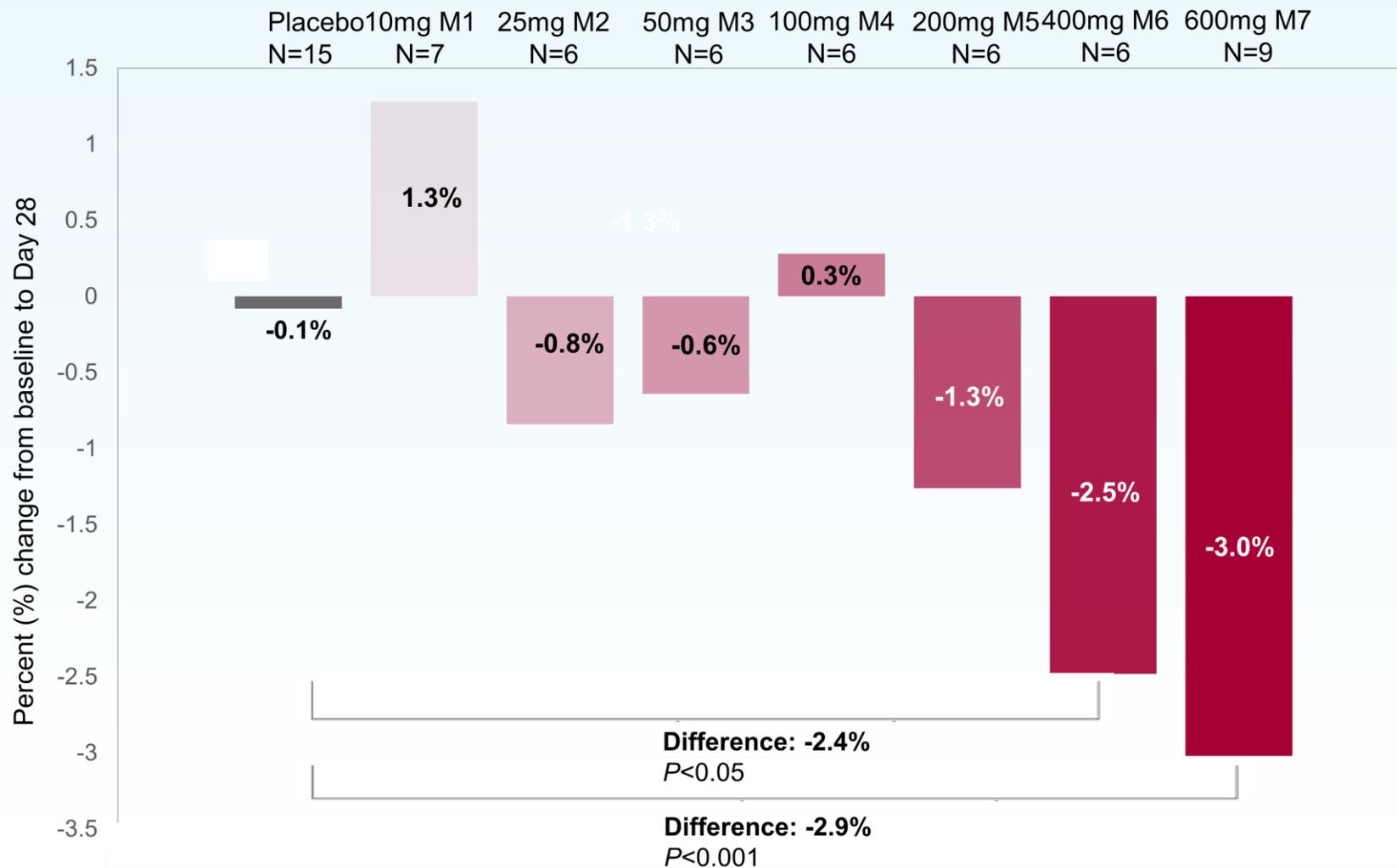


Highly regarded global biopharma company with strong chemistry and translational science capabilities



**LB54640**: Oral, highly selective MC4R agonist with compelling Phase 1 data; no hyperpigmentation observed

# LB54640 Showed Dose-response Body Weight Loss in Healthy Obese Volunteers



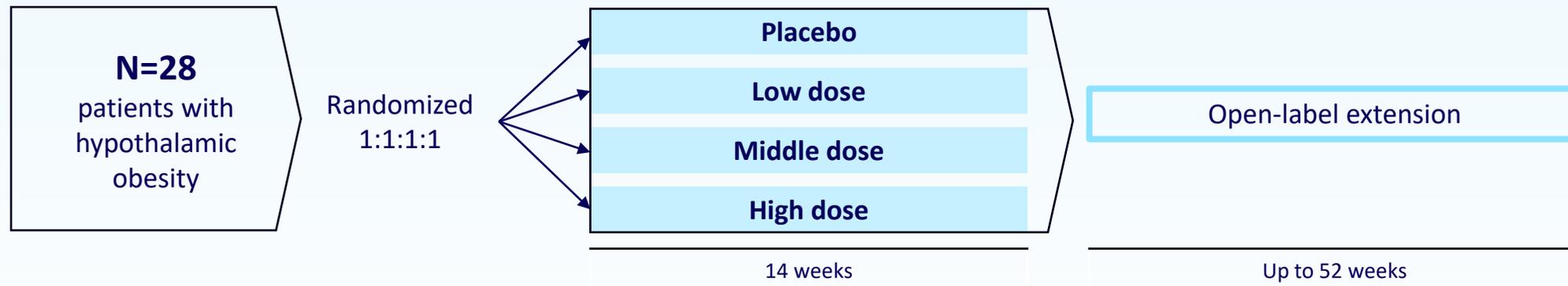
## Favorable safety profile

- No serious adverse events
- No skin pigmentation, adrenal, or genitourinary adverse events observed
- Mild to moderate nausea, diarrhea, vomiting most common

As presented by LG Chem at The Obesity Society's ObesityWeek® 2022.

# SIGNAL Trial: 14-week, Phase 2 Open-label Trial Evaluating LB54640 in Patients with Hypothalamic Obesity

Transfer of sponsorship from LG Chem to Rhythm in process



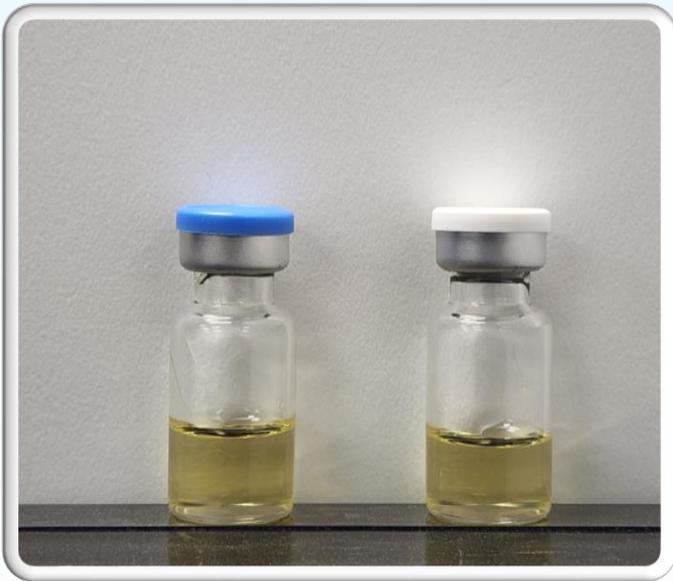
## Inclusion criteria

- $\geq 18$ yo BMI  $\geq 30$  kg/m<sup>2</sup> for adults
- 12-<18 yo  $\geq 95$ th percentile for patients
- Setmelanotide-naive

## Efficacy endpoint

- Mean % change in BMI from baseline at 14 weeks

# RM-718 has Demonstrated Similar Safety Compared to Setmelanotide Weekly Formulation in Pre-clinical Studies



In vivo safety results supportive of no off-target cardiovascular effects, like setmelanotide

No hyperpigmentation observed in vivo

In vivo results suggest potential efficacy for body weight reduction, hyperphagia reduction

Potential for efficient development path with hypothalamic obesity

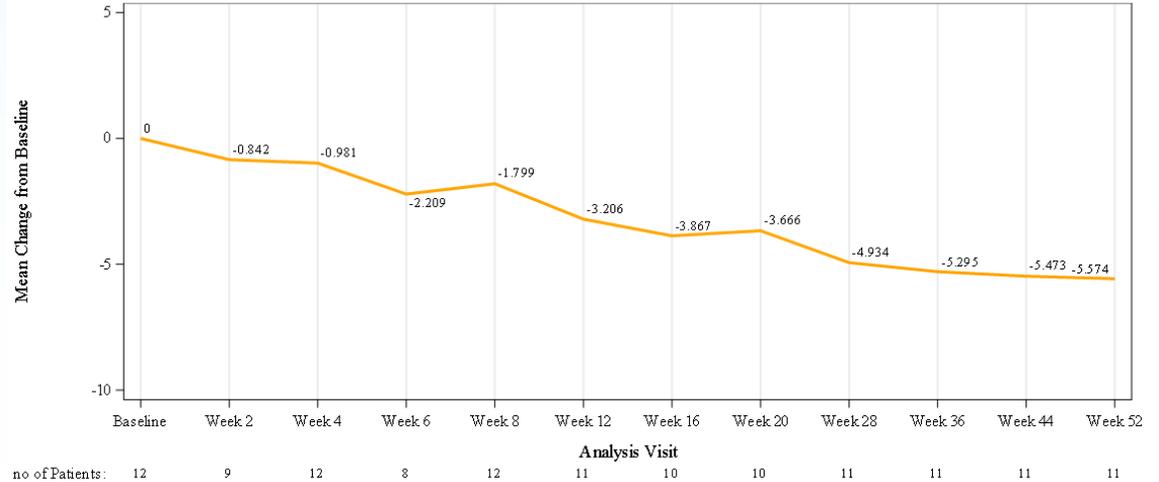
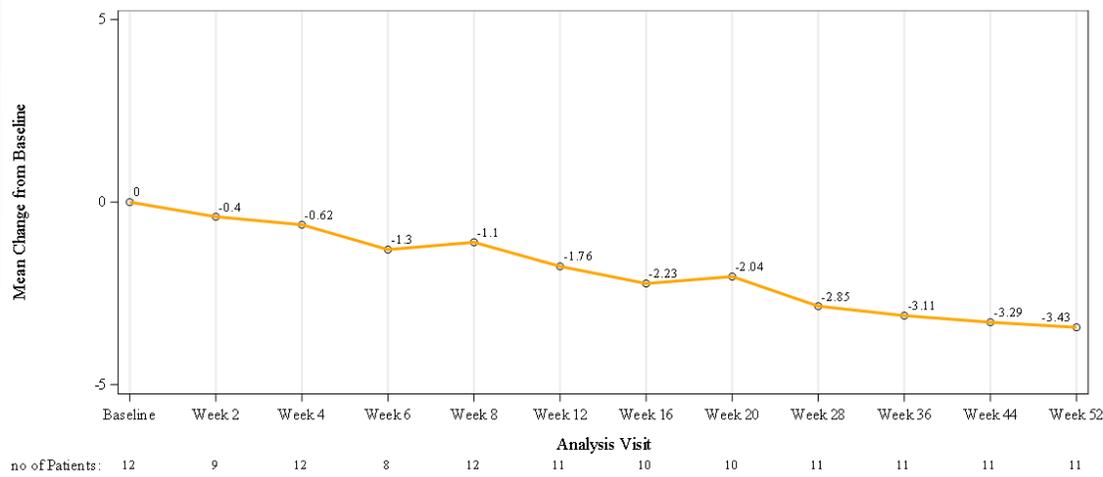
**IND accepted; First in human, three-part Phase 1 study to evaluate safety, tolerability, and PK of RM-718 QW anticipated to begin in 1H 2024**

# Setmelanotide Achieved Clinically Meaningful Reductions in BMI and BMI-Z in 2-<6yo Patients with POMC/LEPR Deficiency or BBS

Analysis set population (N=12)

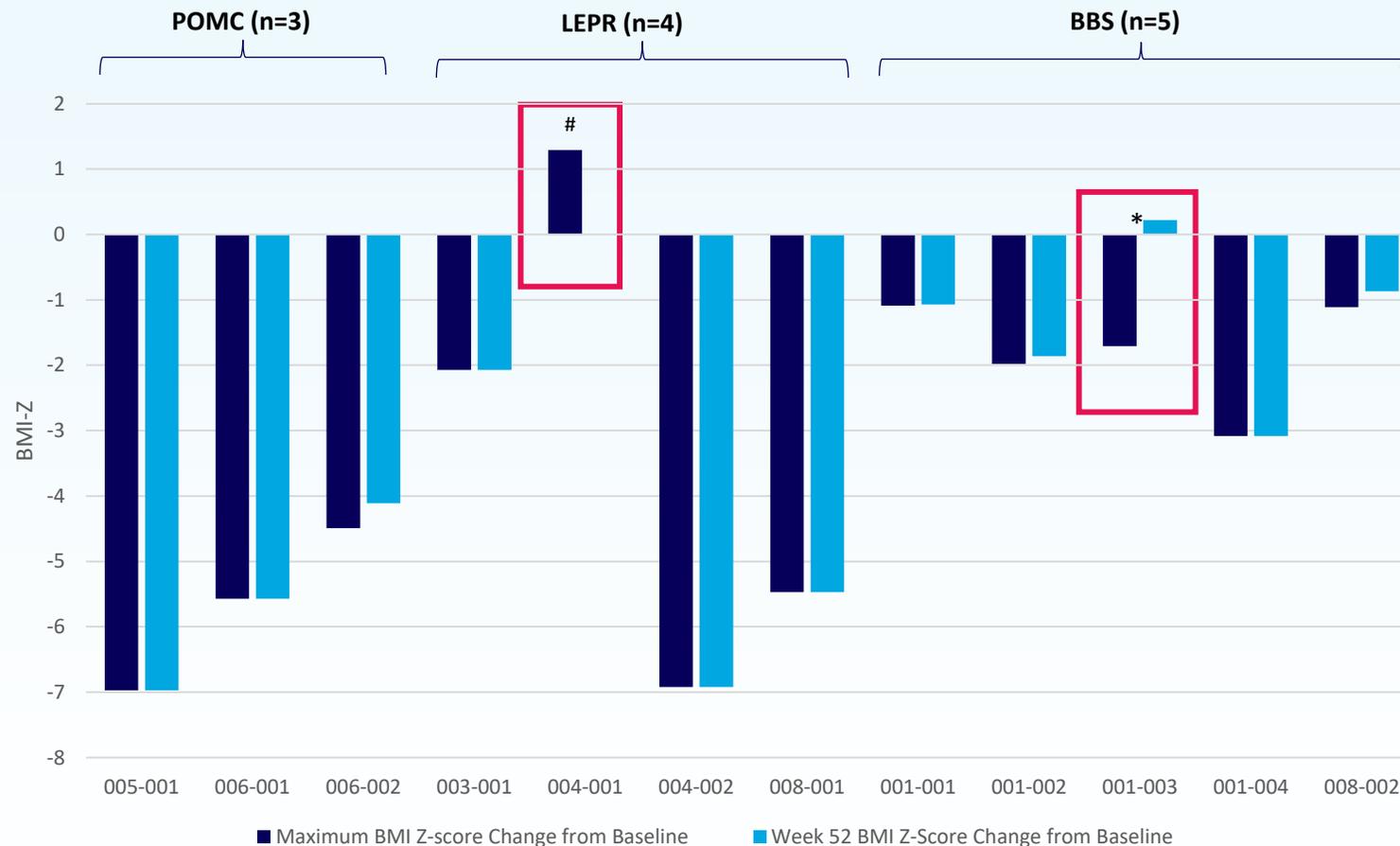
**83.3% (10 of 12)**  
of all patients achieved  
**≥0.2 reduction in BMI-Z score from  
baseline to Week 52**

**-18.380%**  
Mean percent change from baseline  
in BMI at Week 52



Data on file at Rhythm. To be presented at a medical conference.

# Setmelanotide Achieved Consistent Reductions in BMI-Z Score



**-3.04**  
 Mean change from baseline in BMI-Z at Week 52 (N=12)

<b>-4.3</b> POMC/LEPR (n=7)	<b>-1.3</b> BBS (n=5)
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11 patients completed the trial, and all remain on therapy<sup>€</sup>.

\*Patient was not compliant with dosing (next slide); #Patient discontinued the study at Week 7 and was subsequently lost to follow-up; <sup>€</sup>As of Dec. 3, 2023.

For patients who did not achieve their greatest reduction from baseline in BMI-Z score at Week 52 (52-week population), the maximum reduction in Z-score at any time is presented.

# Jennifer Lee

## BBS U.S. Launch

# Fourth Quarter 2023 Prescriptions and Approvals for Reimbursement

>100

Prescriptions  
received during  
4Q 2023

>70

Approvals for  
reimbursement received  
during 4Q 2023

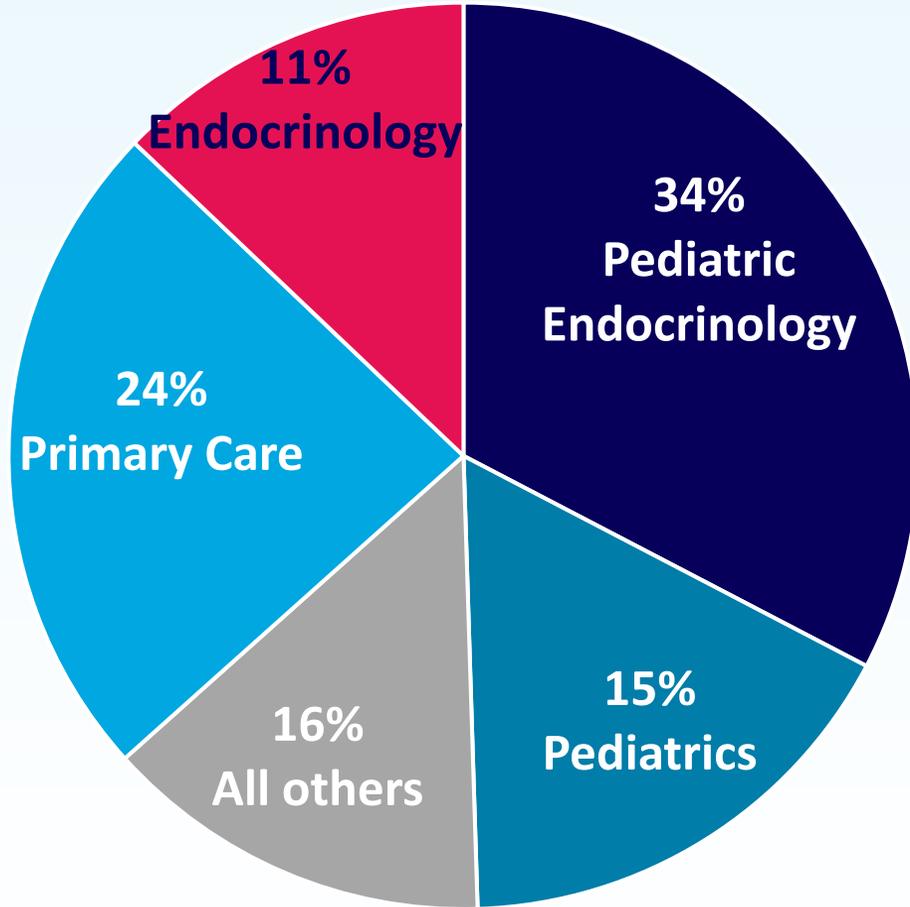
**30 previously reimbursed patients** were transitioned to free drug through bridge program due to a single state Medicaid program requesting additional documentation to continue reimbursement.

# Snapshot of BBS Patients with Prescriptions

Age Range	Since Launch*
Adult (18+)	~59%
Adolescent (12-17)	~23%
Pediatric (6-11)	~18%

\*As of December 31, 2023

# Increased Depth and Breadth of BBS IMCIVREE Prescriber Base





**>360\***  
Prescribers  
as of 12/31/2023

**28%** of prescribers  
'new to Rhythm'

**30%** of prescribers have  
written more than  
one prescription

\*As of December 31, 2023

# Incremental Improvement in Medicaid Access and Reimbursement with >85% of Covered Lives in States with Positive Coverage

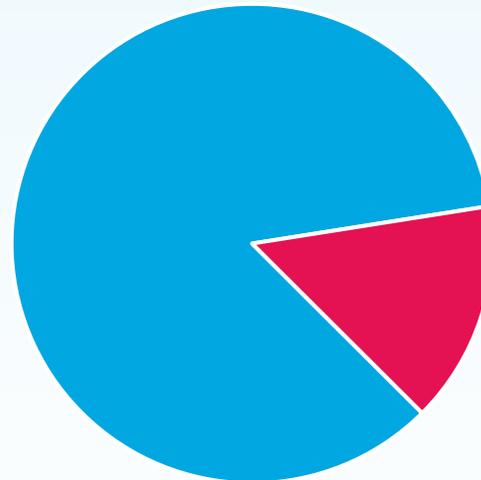
>85%\*\*

of covered lives split between states with:

- an IMCIVREE policy in place; or
- or a positive coverage decision in the absence of an IMCIVREE policy\*\*

Medicaid Covered Lives

~85 million\*



<15%\*\*

of covered lives in states with:

- no IMCIVREE prescription received;
- or IMCIVREE prescription being processed;
- or no access by policy\*\*

**Payor mix remains consistent as ~90%\*\* of reimbursed BBS prescriptions since launch fall under commercial and Medicaid plans**

\* According to Medicaid, there were approximately 85 million individuals enrolled in Medicaid in all fifty states, Puerto Rico and the District of Columbia, as of December 2022; \*\* As of Dec. 31, 2023

# Vast Majority of IMCIVREE Prescription Re-authorizations Approved

**110\***  
**re-authorization  
approvals**  
(at 3-, 6- or 12-  
months)

**>90%\*** approved at initial  
re-authorization

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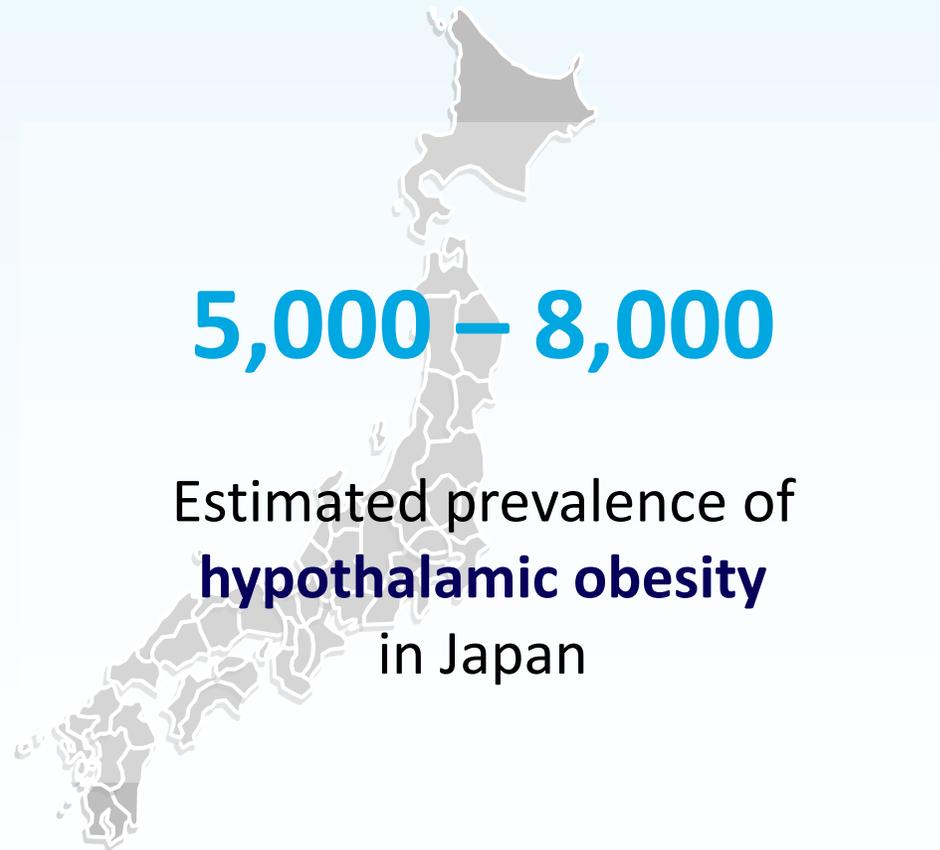
**10 denials:** 6 already  
approved\*\*, working toward  
approval for remaining 4

\*As of December 31, 2023; \*\* As of February 16, 2024

# Yann Mazabraud

## EVP, Head of International

# Significant Opportunity in Japan with Higher Per-capita Incidence and Prevalence of Hypothalamic Obesity



- Prevalence is 2-3 times higher than in the USA & Europe due to a higher frequency of craniopharyngioma been reported
- > **100** health care centers treating patients with hypothalamic obesity
- Single-payer system with established history of recognizing rare diseases

# Rhythm's Initial Hypothalamic Obesity Symposium in Japan Well Attended



# Solid Start for IMCIVREE Launch for BBS in Germany

Continued focus on engaging with physicians at care centers across the country

**~1,200**

Estimated German prevalence\*

**~800**

Patients diagnosed with BBS\*

**>250**

Patients with BBS identified\*

\*Internal company estimates.

Engaging care centers, large hospitals leads to prescriptions



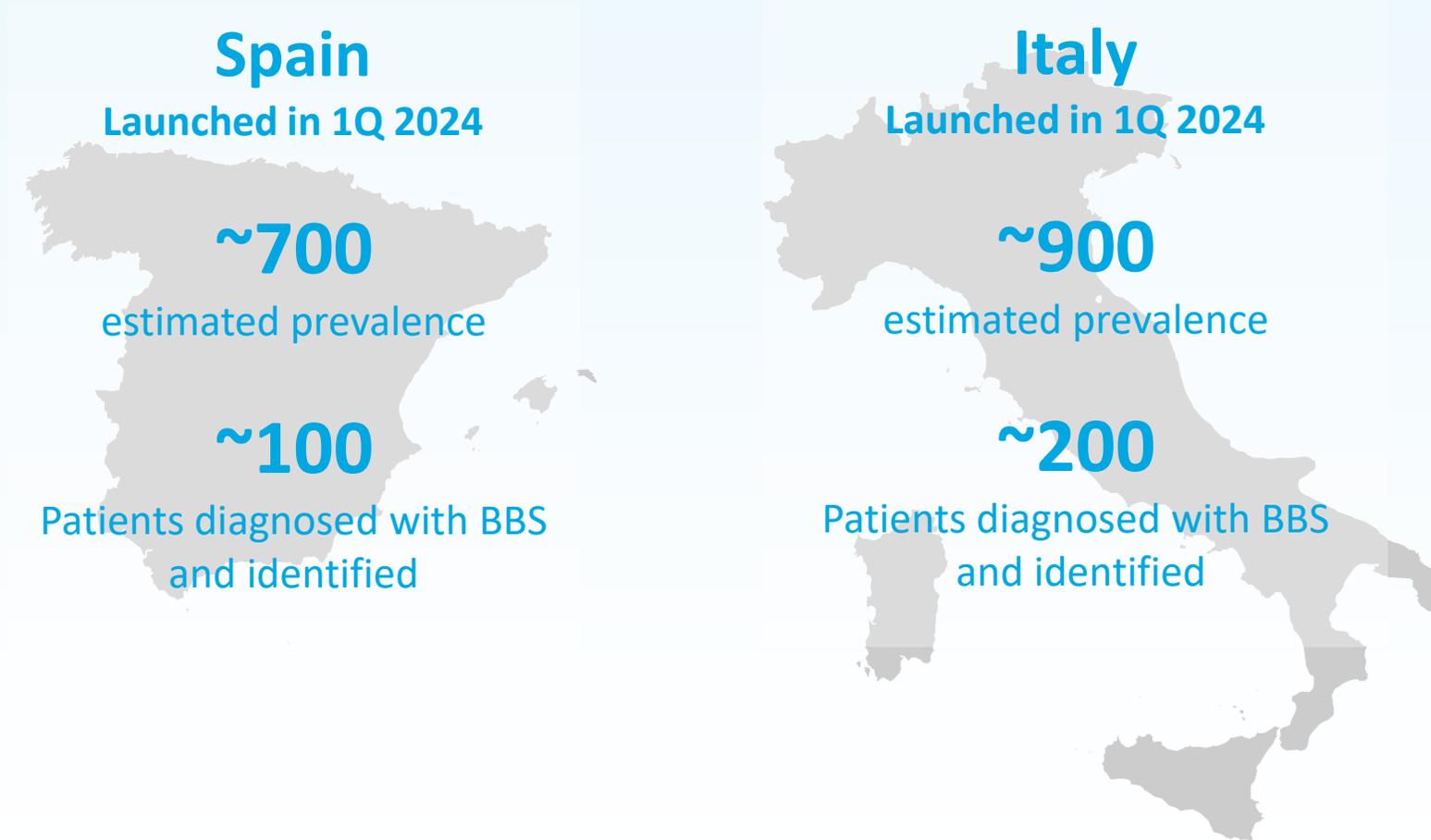
**Rhythm@Home**

**Wir sind für Sie da.**  
Rhythm@Home® Patientenservice.

Die Lebensqualität von Menschen mit genetisch bedingter Fettleibigkeit liegt uns sehr am Herzen. Deshalb unterstützen wir sie dabei, den Alltag mit ihrer Erkrankung so unkompliziert wie möglich zu gestalten.

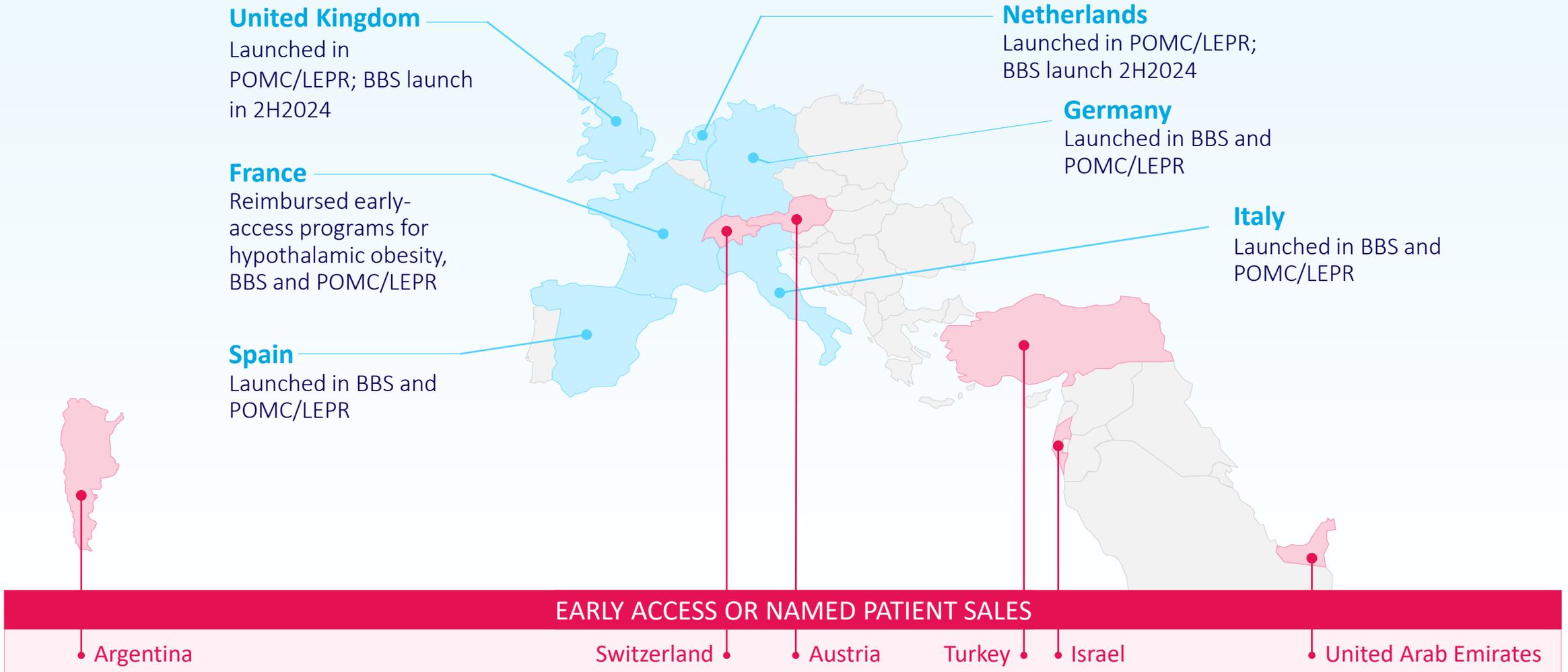
**Unser Angebot für Sie:**  
Speziell geschulte Mitarbeiter/-innen begleiten und betreuen Betroffene individuell bei der Therapie.

# Reimbursement Achieved for IMCIVREE for BBS in Two New Markets



\*Internal company estimates.

# Market Access Achieved for IMCIVREE for Biallelic POMC/LEPR and/or BBS in 12 Countries outside of North America



# Hunter Smith

## 4Q 2023 Financial Results

# 4Q 2023 Financial Snapshot

**\$275.8M\*** cash, cash equivalents and short-term investments expected to be sufficient to fund operations into 2025

(\$ in millions except as noted, per share data and shares outstanding)	Three months ended December 31, 2023	Three months ended December 31, 2022	Year ended December 31, 2023	Year ended December 31, 2022
Product revenue, net	\$24.2M	\$8.8M	\$77.4M	\$16.9M
Collaboration revenue	--	--	--	\$6.8M
R&D expenses	\$29.9M	\$23.5M	\$135.0M	\$108.6M
SG & A expenses	\$32.4M	\$26.3M	\$117.5M	\$92.0M
Loss from operations	\$(41.3)M	\$(42.1)M	\$(184.4)M	\$(179.2)M
Shares outstanding (basic and diluted share count, weighted average)	59,211,199	56,299,525	57,673,128	52,120,701
Net (loss) per share basic and diluted	(\$0.70)	(\$0.75)	(\$3.20)	(\$3.47)
Cash, cash equivalents and short-term investments position (period end)	\$275.8M	\$333.3M	\$275.8M	\$333.3M

\* As of December 31, 2023.

# 4Q and Year End 2023 Financial Highlights

**\$275.8M**

cash equivalents and short-term investments as of December 31, 2023

**76%**

of 4Q 2023 revenue from U.S. sales of IMCIVREE vs. 80% in 3Q 2023

GAAP OpEx of **\$261.8M** includes **\$32.6M** in stock-based compensation in 2023

Non-GAAP<sup>1</sup> OpEx for 2023 of **\$219.9M\***

RYTM expects cash to be sufficient to fund planned operations **into the second half of 2025**

\* Does not include COGS; <sup>1</sup> Non-GAAP Operating Expenses is a non-GAAP financial measure. Non-GAAP Operating Expenses of \$219.9 million is derived from GAAP total operating expenses of \$261.8 million less \$32.6 million in stock-based compensation. For more information, see slide 3.

# Financial Guidance for 2024

## **\$100 million in fixed consideration commitment to acquire LB54640 from LG Chem\***

- \$40 million paid in January 2024
- 432,143 shares of common stock issued to LG Chem, valued at \$20 million in January 2024
- \$40 million to be paid in 18 months
- Total accounted for in R&D expenses during 1Q 2024
- In future quarters, when the achievement of development and commercial milestones becomes probable, the Company will recognize R&D expense

## **Anticipated Non-GAAP Operating Expenses<sup>1</sup> for 2024:**

### **\$250M to \$270M**

- R&D: \$145 million to \$160 million, including \$10M-\$15M of LB54640 development costs
- SG&A: \$105 million to \$110 million
- Does not include stock-based compensation
- Does not include \$100 million in fixed consideration related to in-licensing of LB-54640 from LG Chem

\*As announced on January 4, 2024; <sup>1</sup>Non-GAAP Operating Expenses is a non-GAAP financial measure. We define Non-GAAP Operating Expenses as GAAP operating expenses excluding stock-based compensation and fixed consideration related to in-licensing. For more information, see slide 3.

# David Meeker, MD

## Conclusion

# Continued Execution: Recent Achievements and Multiple Anticipated Milestones

## Recent achievements

- ✓ Licensed global rights to **oral MC4R agonist LB54640**
- ✓ **Completed enrollment** in Phase 3 hypothalamic obesity trial
- ✓ Achieved **positive reimbursement** decision IMCIVREE for **BBS** in **Spain and Italy**
- ✓ IND application for **new pipeline product, RM-718 QW**, accepted by the FDA
- ✓ **Phase 3 pediatrics trial** achieved primary endpoint; **EMA** regulatory submission completed

## Anticipated milestones in 2024

- **1H2024:** Initiate Phase 1 study of RM-718 QW
- **1H2024:** Complete sNDA submission to US FDA to expand IMCIVREE label to include children between 2yo and <6yo
- **2H2024:** Announce Ph2 DAYBREAK stage 2 PBO-controlled data
- **2H2024:** Complete enrollment in 2 or more EMANATE cohorts in 2H2024
- **1H2025:** Topline data in Phase 3 hypothalamic obesity trial

# Questions