

*Our mission at Rani is to end  
painful injections for the  
millions of patients suffering  
from chronic diseases.*

Rani Therapeutics Fourth Quarter  
and Full Year Financial Results and  
Business Update

March 31, 2025

**Rani**  
THERAPEUTICS

# Forward-Looking Statements

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This presentation and the accompanying oral statements contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 as contained in Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act. Forward-looking statements are based on information available at the time those statements are made or on management's good faith beliefs and assumptions as of that time with respect to future events, and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in, or suggested by, the forward-looking statements. In light of these risks and uncertainties, the forward-looking events and circumstances discussed in this presentation and the accompanying oral statements may not occur and actual results could differ materially from those anticipated or implied in the forward-looking statements. These risks and uncertainties include Rani Therapeutics Holdings, Inc.'s ("Rani," "we," "us," or "our") future financial performance, including our expectations regarding our revenues, cost of revenues, operating expenses, and our ability to achieve and maintain future profitability, those risks inherent in the preclinical and clinical development process and the regulatory approval process, the risks and uncertainties in commercialization and gaining market acceptance, the commercial potential of oral biologics, our ability to complete development of the RaniPill® HC or any redesign and conduct additional preclinical and clinical studies of the RaniPill HC or any future design of the RaniPill to accommodate higher target payloads, the risks associated with protecting and defending our patents or other proprietary rights, the risk that our proprietary rights may be insufficient to protect our product candidates, the risk that we will be unable to obtain necessary capital when needed on acceptable terms or at all, our ability to enter into strategic partnerships and to achieve the potential benefits of such partnerships, competition from other products or procedures, our reliance on third-parties to conduct our clinical and non-clinical trials, our reliance on single-source third-party suppliers to manufacture clinical, non-clinical and any future commercial supplies of our product candidates, our ability to continue to scale and optimize our manufacturing processes including by expanding our use of automation, our expectations regarding the period during which we qualify as an emerging growth company under the JOBS Act, our expectations regarding customer demand for our product candidates, increased regulatory requirements and other factors that are set forth in our filings with the Securities and Exchange Commission ("SEC"), including under the caption "Risk Factors" in our Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q, and our other public filings made with the SEC and available at [www.sec.gov](http://www.sec.gov).

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# Talat Imran

Chief Executive Officer,  
Rani Therapeutics



- >15 years experience in Healthcare
- Venture capitalist for several Silicon Valley healthcare funds

## Today's Agenda

- 01** Overview of Rani's Technology Platform and Pipeline
- 02** Corporate Update: Leveraging RaniPill Technology For Next Generation Obesity Therapies
- 03** 2024 Financial Results



# Overview of Rani's Technology Platform and Pipeline

*Our mission at Rani is to end painful injections for the millions of patients suffering from chronic diseases*

**Rani Therapeutics**  
**NASDAQ: RANI**

**Clinical-stage biotech focused on Oral Delivery of Biologic Drugs with Bioavailability Comparable to Parenteral Products**

**TECHNOLOGY:**

**RaniPill**

- 200  $\mu$ L Capacity (20-40mgs\*)
- Liquid Drug Formulation

**PIPELINE:**

**High value indications in the Immunology & Obesity Space**

**DISCOVERY:**

**Broad applicability across Nanobodies, Hemophilia, Bispecific MABs, Fertility, Genetic Medicine**

**IP:**

**>450 Granted Patents and Pending Applications, >250 Granted Patents\*\***

# Demonstrated and Repeated Success

## Preclinical

### 19 Molecules Assessed

antibodies, peptides, and large proteins with high bioavailability

### >7,000 Capsules

tested *in vitro* & *in vivo*

### 60-Day GLP Study

completed with no clinical findings

## Clinical

### 3 Phase 1 Studies\*

completed

### 233 RaniPill Capsules

administered to 146 humans

### Repeat Dose Study

completed



✓ **Clinically Tested**

✓ **Well Tolerated**

✓ **Broad Applicability**

# Development Pipeline

	INDICATION(S)	DISCOVERY	PRE-CLINICAL	PHASE 1	PHASE 2	PARTNER	NEXT EXPECTED KEY MILESTONE*
<b>OBESITY PROGRAMS</b>							
RT-114	Obesity	GLP-1/GLP-2**				ProGen	Initiate Phase 1 in mid-2025
RT-116	Obesity	Semaglutide					Continue Preclinical Discovery Work
<b>IMMUNOLOGY PROGRAMS</b>							
RT-105	Rheumatoid Arthritis	Adalimumab***					Initiate Phase 1
RT-111	Psoriasis	Ustekinumab***					Advance Clinical Development at Higher Doses
<b>ENDOCRINOLOGY PROGRAMS</b>							
RT-102	Osteoporosis	PTH-OP					Initiate Phase 2
RT-110	Hypo-parathyroidism	PTH-Hypo					Initiate Phase 1

\* Clinical timelines are subject to potential regulatory agency review delays

\*\* RT-114 is the subject of a worldwide collaboration with ProGen Co, Ltd.

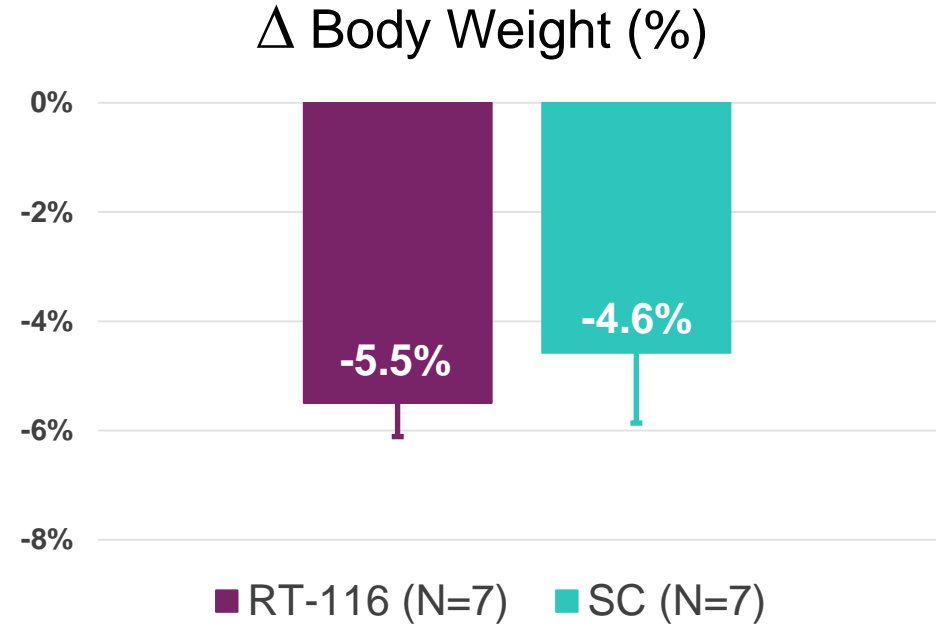
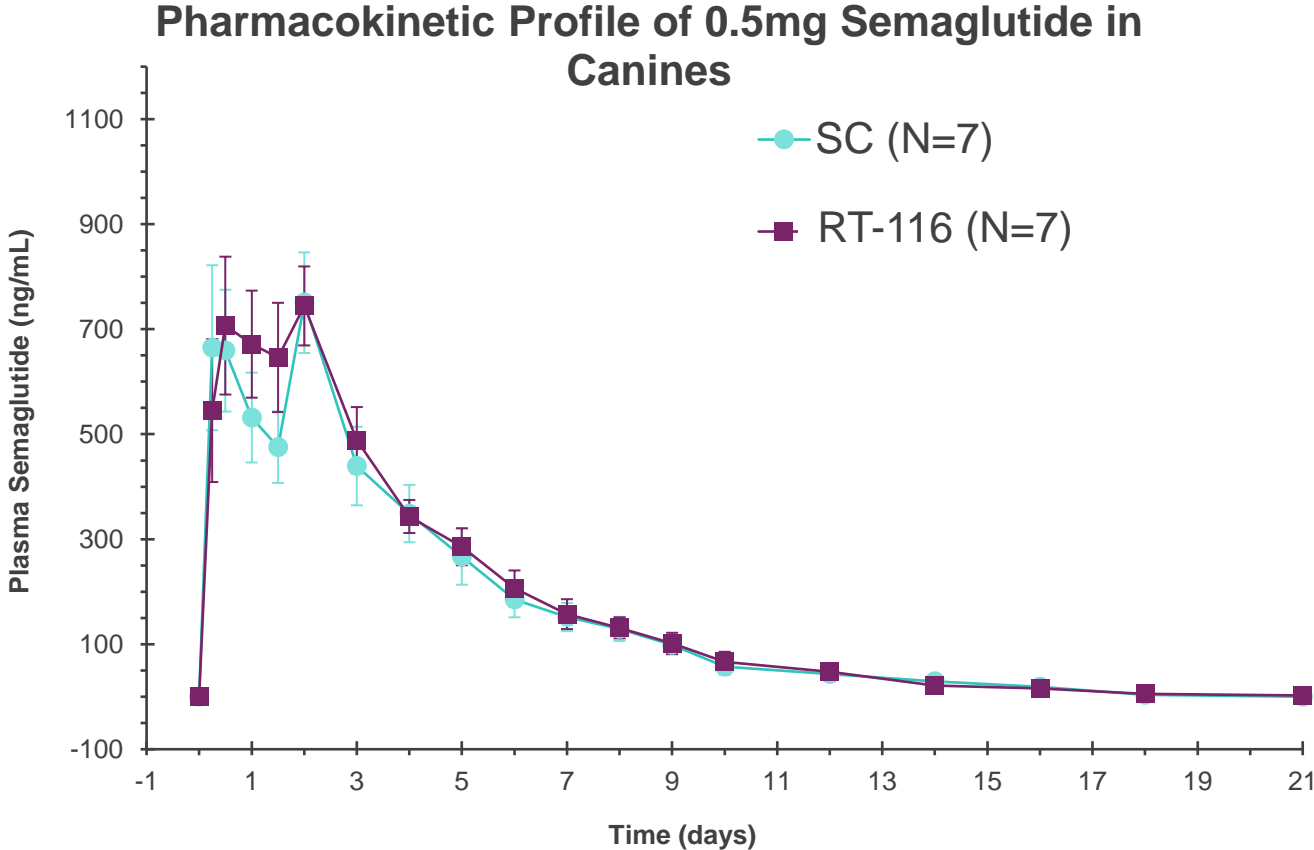
\*\*\* Ustekinumab and adalimumab biosimilars are supplied by Celltrion, Inc. Celltrion grants Rani a license and drug suppl for each drug.



# Leveraging RaniPill Technology For Next Generation Obesity Therapies



# Semaglutide Delivered Orally via RaniPill Capsule Demonstrated Comparable Pharmacokinetics and Weight Loss to SC Route



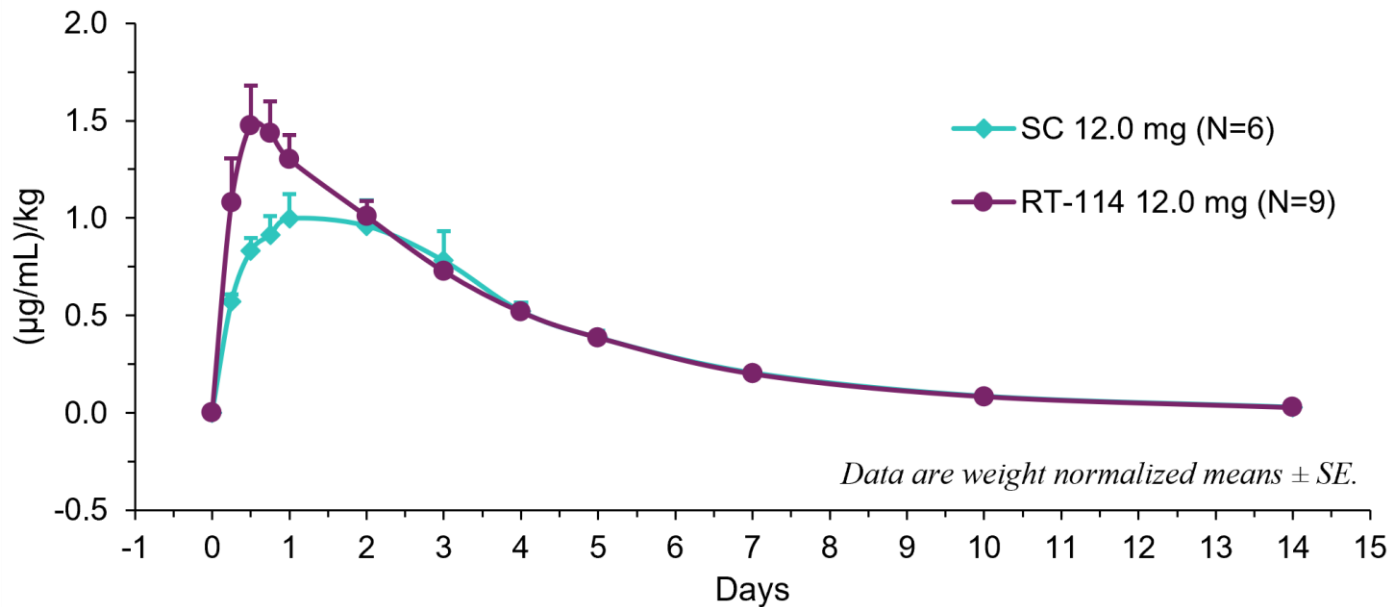
**107%** | Estimated Bioavailability Relative to SC



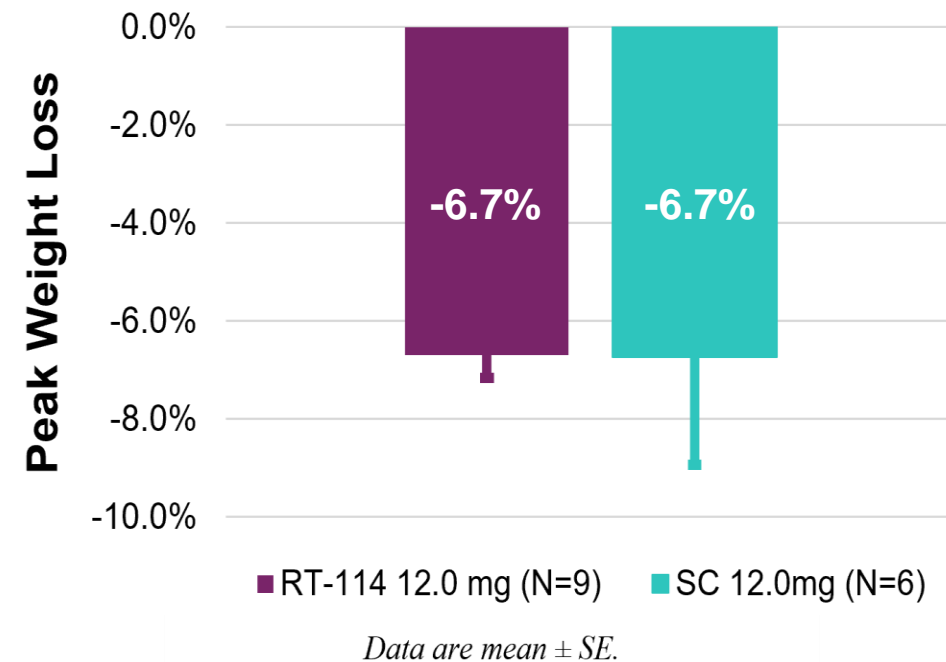
All data is mean ± standard error. SC means subcutaneous.

# RT-114 Delivered Orally via RaniPill Capsule Demonstrated Bioequivalence to SC PG-102

### Pharmacokinetics of RT-114 vs SC (weight normalized)



### Pharmacodynamics of RT-114 vs SC



**111%**

Estimated Bioavailability  
Relative to SC

# Rani's GLP-1/ GLP-2 Program (RT-114) Has Multiple Potential Competitive Differentiators

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**RaniPill**



**ProGen**

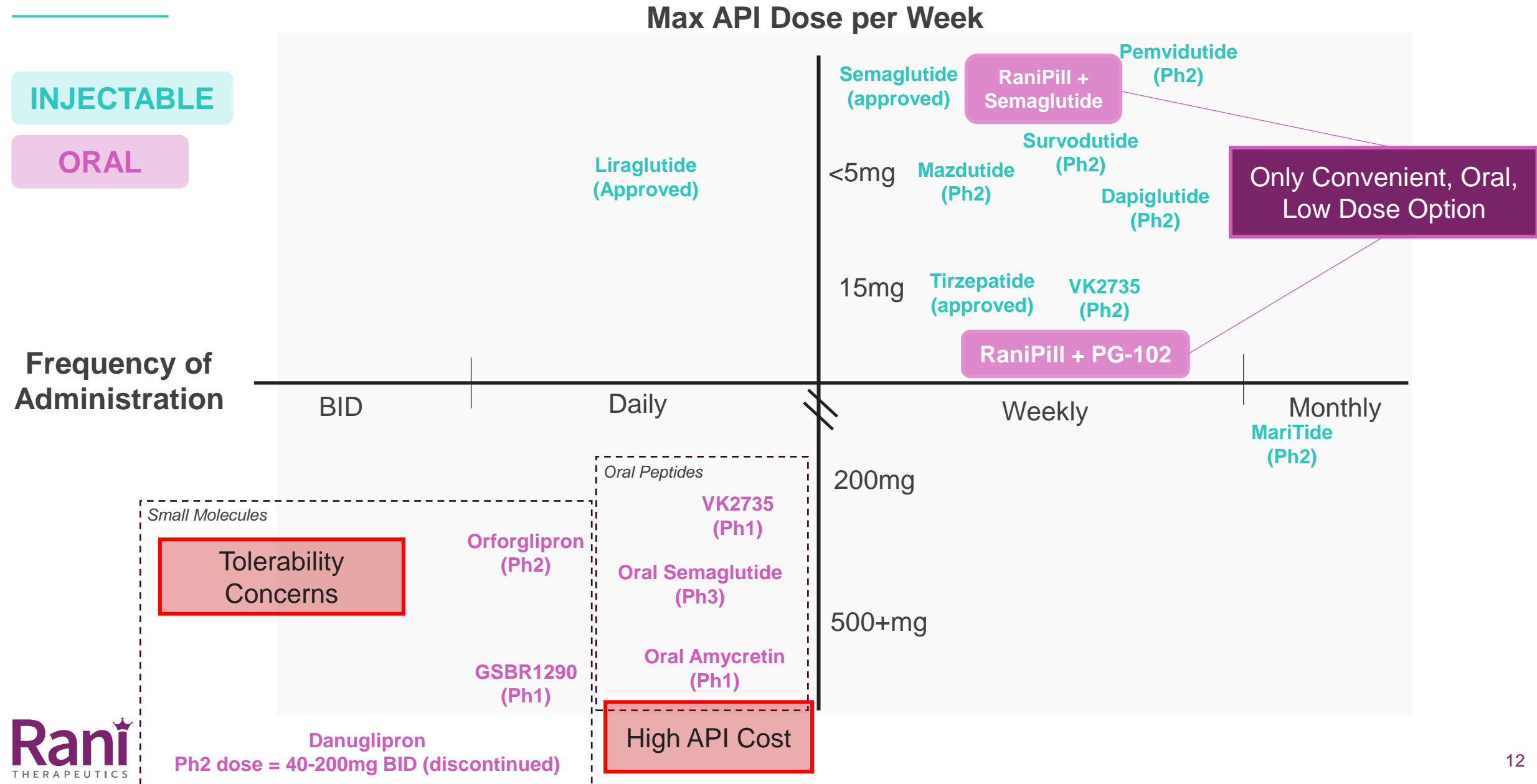
**PG-102**  
GLP-1/GLP-2

## Potential Key Advantages:

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- ✓ **Weight loss** comparable to approved products
- ✓ Improved **tolerability**
- ✓ Better **lean mass preservation** & improved nutrient absorption
- ✓ Shorter dose titration period
- ✓ **No painful injections**
- ✓ **Dose equivalent** to injectables
- ✓ Weekly oral dosing

# Clear Opportunity in Obesity Landscape for RaniPill Products



# Svai Sanford Chief Financial Officer, Rani Therapeutics



>25 years of accounting, finance and management experience in the biopharmaceutical and medical device industries for both public and private companies



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- 01 Overview of Rani's Technology Platform and Pipeline Update
- 02 Update on RT-114, a GLP-1/GLP-2 Dual Agonist (PG-102)
- 03 **2024 Financial Results**

**Q & A**