



COMPANY OVERVIEW

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January 12, 2026

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This presentation and any accompanying oral presentation contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act. All statements other than statements of historical facts contained in this presentation are forward-looking statements, including statements regarding: our future results of operations and financial position; business strategy; our capital resources; pre-clinical and clinical product candidates (including PN-881, PN-477; PN-458 and PN-8047) and discovery programs; our icotrokinra collaboration with Johnson & Johnson Innovation, Inc. ("JNJ") and our rusfertide collaboration with Takeda, including our expectations related to the achievement and timing of milestone and royalty payments from JNJ and Takeda; the potential market opportunities for icotrokinra and rusfertide and other product candidates; the impact on our business or product candidates of actions of the U.S. Food and Drug Administration ("FDA") and foreign regulatory agencies, including expectations regarding timing of FDA approval of NDAs for icotrokinra and rusfertide; expectations regarding timing and announcements related to pre-clinical and clinical programs; and the scope of protection we are able to establish and maintain for intellectual property rights covering our product candidates. In some cases, you can identify forward-looking statements by terminology such as "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "potentially," "predict," "should," "will," or the negative of these terms or other similar expressions.

Forward-looking statements are subject to risks and uncertainties, including those discussed in our filings with the Securities and Exchange Commission, including in the "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of our most recently filed periodic reports on Form 10-K and Form 10-Q and subsequent filings and in the documents incorporated by reference therein. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified and some of which are beyond our control, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. The information included in these materials is provided as of the date specified on the cover page of this presentation, unless specified elsewhere herein, and is qualified as such. Except as required by applicable law, we undertake no obligation to update any forward-looking statements or other information contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.

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Protagonist Therapeutics, Inc.

Integrated Discovery and Development Company With a Validated Technology Platform

- Biologically and commercially validated targets
 - Immunology & inflammation, hematology, and metabolic diseases
- Strong differentiation vs existing therapies

Protagonist
Technology
Platform


PN-458o
PN-458sc
Dual
GLP/GIP

PN-8047
Oral Hepcidin
Functional
mimetic

PN-477o
Oral
Triple Agonist
Anti-Obesity
DC

PN-477sc
Weekly sc
Triple Agonist
Anti-Obesity
DC

PN-881
Oral
IL-17
Antagonist

Rusfertide
SC Weekly
Hepcidin Mimetic
PV, Ph3


Icetrokinra
Oral IL-23r
Antagonist


IND-Enabling

Phase 1

*NDA: PV
29 Dec '25*

*NDA and MAA:
Psoriasis
Ph 3: PsA, UC, CD*

R & D

Pipeline of Proprietary and Partnered Programs

	Programs & Assets	Discovery/Preclinical → IND-Enabling	Phase 1	Phase 2	Phase 3	Reg. Review	Key Milestones
INFLAMMATION & IMMUNOLOGY	Icotrokinra Oral IL-23R Peptide Antagonist Johnson & Johnson Innovative Medicine	Moderate-to-Severe Psoriasis	ICONIC-LEAD Ph3 completed**, ICONIC-TOTAL Ph3 completed**				• Psoriasis NDA (US)/MAA (EU) submitted
			ICONIC-ADVANCE-1&2 Ph3 completed**, ICONIC-ASCEND Ph3 ongoing				• Superiority of icotrokinra vs. deucravacitinib achieved
		Psoriatic Arthritis	ICONIC PsA-1 & -2 Ph3 ongoing				• Study of icotrokinra vs ustekinumab initiated
		Ulcerative Colitis	ANTHEM-UC Ph2b completed**, ICONIC-UC Ph3 initiated				• ICONIC-UC initiated Q4 '25
	PN-881* Oral IL-17 Antagonist	Crohn's Disease	ICONIC-CD Ph 2/3 initiated				• ICONIC-CD initiated Q4 '25
		Psoriasis, Psoriatic Arthritis, Hidradenitis Suppurativa, Spondyloarthritis	Ph1 initiated				• Phase 1 initiated Q4 '25
HEMATOLOGY	Rusfertide SC Hepcidin Mimetic Takeda	Polycythemia Vera	REVIVE Ph2 completed***, THRIVE Ph2 ongoing, PACIFIC Ph2 completed***, VERIFY Ph3 completed**				• NDA: Submitted 29 Dec '25
	PN-8047* Oral Hepcidin	Polycythemia Vera, Hereditary Hemochromatosis, Other	IND-Enabling Studies				• Dev candidate: Nominated in Q4 '25
METABOLIC	PN-477sc and oral* GLP-1R, GIPR, and GCGR Agonist	Obesity & Associated Co-Morbidities	IND-Enabling Studies				• PN-477sc Phase 1 initiation Mid '26
	PN-458sc and oral* GLP-1R and GIPR Agonist		IND-Enabling Studies				• PN-477o Phase 1 initiation 2H '26 • PN-458sc and PN-458o Dev candidate: Nominated in Q4 '25

*Fully owned by Protagonist Therapeutics, Inc.; **Primary endpoint completed; ***Study completed.

Multiple Near-Term Catalysts

Two Potential Blockbuster Approvals, Multiple R&D Readouts & Strong Cash Position

Commercial Value Drivers

- ❑ **Icotrokinra**: First-in-class oral IL-23R antagonist
 - ❖ NDA filed for plaque psoriasis: July '25
 - ❖ MAA submitted Sep '25
 - ❖ 3 additional indications
- ❑ **Rusfertide**: First-in-class hepcidin hormone mimetic
 - ❖ NDA submitted for PV: Dec '25

Multiple Clinical Programs I&I, Obesity and Hematology

- ❑ **PN-881**: Oral IL-17 antagonist
 - ❖ Ph1 completion
 - ❖ Ph2 psoriasis initiation
- ❑ **PN-477sc**: Triple-G, weekly sc
 - ❖ Ph1 initiation & data
- ❑ **PN-477o**: Triple-G, daily oral
 - ❖ Ph1 initiation

New Development Candidates

- ❑ **PN-458sc & PN-458o**:
 - ❖ Dual GLP-1R/GIPR agonist
- ❑ **PN-8047**:
 - ❖ Oral hepcidin functional mimetic

Next Wave of Active Discovery Programs

Lead optimization/Pre-clinical:

- ❑ **IL-4R α** oral antagonist
- ❑ **Amylin** oral mono/poly-agonists
- ❑ Other programs

Strong Cash Position

- ❑ Fund internal, fully-owned programs to clinical PoC
- ❑ Capital return to shareholders – consider opportunistic share buybacks & dividends

Icotrokinra

JNJ and Protagonist Collaboration Economics



Potential Development milestones through 2028			Expected
Any indication	Receipt of marketing approval	\$50M	~2026
2 nd indication	NDA filing acceptance	\$25M	~2027
	Receipt of marketing approval	\$45M	~2028
3 rd indication	NDA filing acceptance	\$35M	~2028
	Receipt of marketing approval	\$50M	~2028-29
Total potential development milestones		\$205M	

Illustrative royalties in peak sales year				
Annual net sales*	\$5.0B	\$10.0B	\$15.0B	\$20.0B
Pre-tax royalty receivable*	\$0.4B	\$0.9B	\$1.4B	\$1.9B

Rusfertide

Takeda and Protagonist Partnership Economics

Scenario	Total upfront + milestones	Upfront	Payable upon opt-out	Potential Milestones	Royalty Rates**	Comment
Opted-In	\$630M	\$300M	-	\$330M	10%-17% Ex-US	50:50 US Profit/loss share
Opted-Out	\$1,675M	\$300M	\$400M*	\$975M	14%-29% worldwide	Exclusive US rights to Takeda

- **Opt-out Optionality:** 90-day period beginning 120 days after NDA filing (**Q2/Q3 '26**)
 - \$200M payable upon opt-out and a further \$200M upon FDA approval
- **Milestones (2026-28):** \$75M upon FDA approval + \$25M x-US approvals (opt-out scenario)
- **Royalties:**
 - **29% at ≥\$1.5B net sales**
 - **21% weighted average royalty rate at \$1.5B in net sales**

Illustrative royalties during peak sales year (Opt-out Scenario)				
Annual net sales***	\$1.0B	\$1.5B	\$2.5B	\$3.5B
Pre-tax royalty receivable***	\$0.2B	\$0.3B	\$0.6B	\$0.9B

Potential Sales Milestones: Icotrokinra and Rusfertide

Up to \$1.2 Billion Receivable



Icotrokinra Sales Milestones*	
Calendar Year Net Sales	Sales Milestone
\$1 Billion	\$70M
\$2 Billion	\$95M
\$3 Billion	\$160M
\$5 Billion	\$100M
Total Potential Sales Milestones	\$425M

Rusfertide Sales Milestones*	
Calendar Year Net Sales	Sales Milestone
\$250M	\$25M
\$500M	\$50M
\$1B	\$100M
\$1.5B	\$150M
\$2.0B	\$200M
\$2.5B	\$250M
Total Potential Sales Milestones	\$775M



Johnson & Johnson
Innovative Medicine

Icotrokinra (JNJ-2113, formerly PN-235): Oral IL-23 Receptor Antagonist Peptide

Setting a new standard of treatment in plaque
psoriasis & other IL-23 mediated diseases

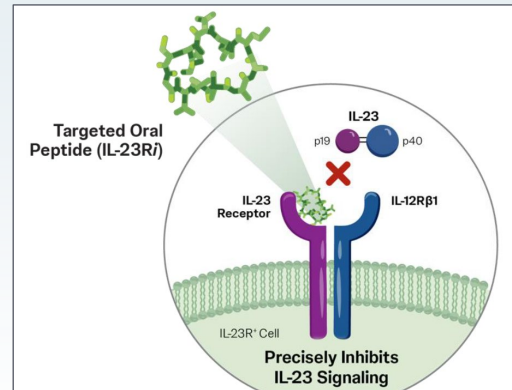
J&J Partnership: 2017 to Present



Icotrokinra: First Oral IL-23R Therapy Targeting a >\$80B¹ Market

THE INNOVATION

- **First- and only-in-class ORAL** IL-23R antagonist in late-stage development
- **Four major indications:**
 - Psoriasis (PsO)
 - Psoriatic arthritis (PsA)
 - Ulcerative colitis (UC)
 - Crohn's disease (CD)



Abreu et al., UEG Week, October 7, 2025, Berlin – OP206

THE OPPORTUNITY

Stelara®
(ustekinumab)

>\$11B²

Tremfya®
(guselkumab)

>\$10B³

Skyrizi

>\$20B⁴

~90%
of patients receiving SC/IV
therapy and willing to switch to
an oral option with comparable
safety and efficacy⁵

PsO / IBD patients eligible
for advanced therapies but
remaining untreated⁶

~50-70% (5M)

>\$10B⁷ blockbuster potential

Biologic-like efficacy and safety, with convenience of a once-daily pill

Icotrokinra Clinical Development Program

**Psoriasis NDA submitted July'25;
MAA submitted Sept'25**

Successful Studies in Psoriasis & UC; PsA studies Ongoing; Phase 3 UC and CD studies underway

Plaque Psoriasis

	Reference(s)	Primary Endpoint Met?	Primary Endpoint Completion Date
FRONTIER 1¹ & 2² Ph2b, n = 255 & 227, in moderate-to-severe psoriasis	Bissonnette R, et al. <i>N Engl J Med.</i> 2024;390:510-21.	✓	Dec '22 and Sept '23
ICONIC-LEAD³ Ph3, n = 684, in moderate-to-severe psoriasis	Bissonnette R, et al. <i>N Engl J Med.</i> 2025;393:1784-95.	✓	Jul '24
ICONIC-TOTAL⁴ Ph3, n = 311, psoriasis in special areas of body	Gooderham M, et al. <i>NEJM Evid.</i> 2025;Epub ahead of print.	✓	Jun '24
ICONIC-ADVANCE 1⁵ Ph3, n = 774, Icotrokinra vs. Deucravacitinib	Gold LS, et al. <i>Lancet.</i> 2025;406:1363-74.	✓	Sept '24
ICONIC-ADVANCE 2⁶ Ph3, n = 731, Icotrokinra vs. Deucravacitinib		✓	Nov '24
Pustular/Erythrodermic Psoriasis⁷ Ph3, n = 19			Jan '25
ICONIC-ASCEND⁸ Ph3, n = 752, Icotrokinra vs. Ustekinumab			~Mar '26

Psoriatic Arthritis

ICONIC-PsA 1⁹ Ph3, n ~ 540, in biologic-naïve active psoriatic arthritis			~May '26
ICONIC-PsA 2¹⁰ Ph3, n ~ 750, in biologic exposed active psoriatic arthritis			~Feb '27

Ulcerative Colitis

ANTHEM-UC¹¹ Ph2b, n = 252, in ulcerative colitis		✓	Dec '24
ICONIC-UC¹² Ph3, n ~ 882, in ulcerative colitis			~Jan '28

Crohn's Disease

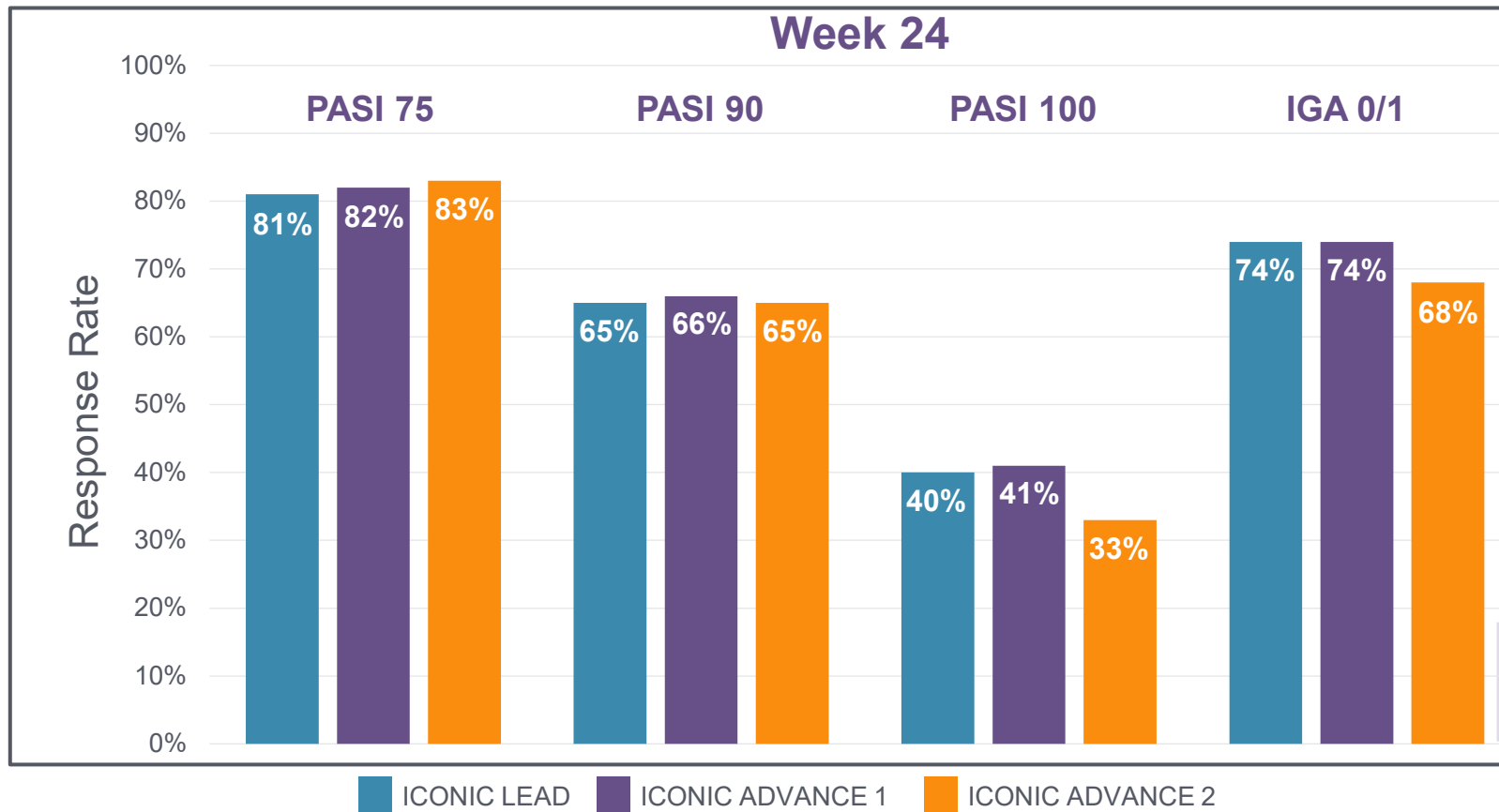
ICONIC-CD¹³ Ph 2/3, n ~ 1092, in Crohn's disease			~Sept '28
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Icotrokinra: Established Safety with Best-in-Class Oral Efficacy

ICONIC LEAD and ADVANCE Phase 3 Trial Results

Efficacy:

High rates of skin clearance with early onset and durable response



Safety:

Icotrokinra broadly comparable to placebo

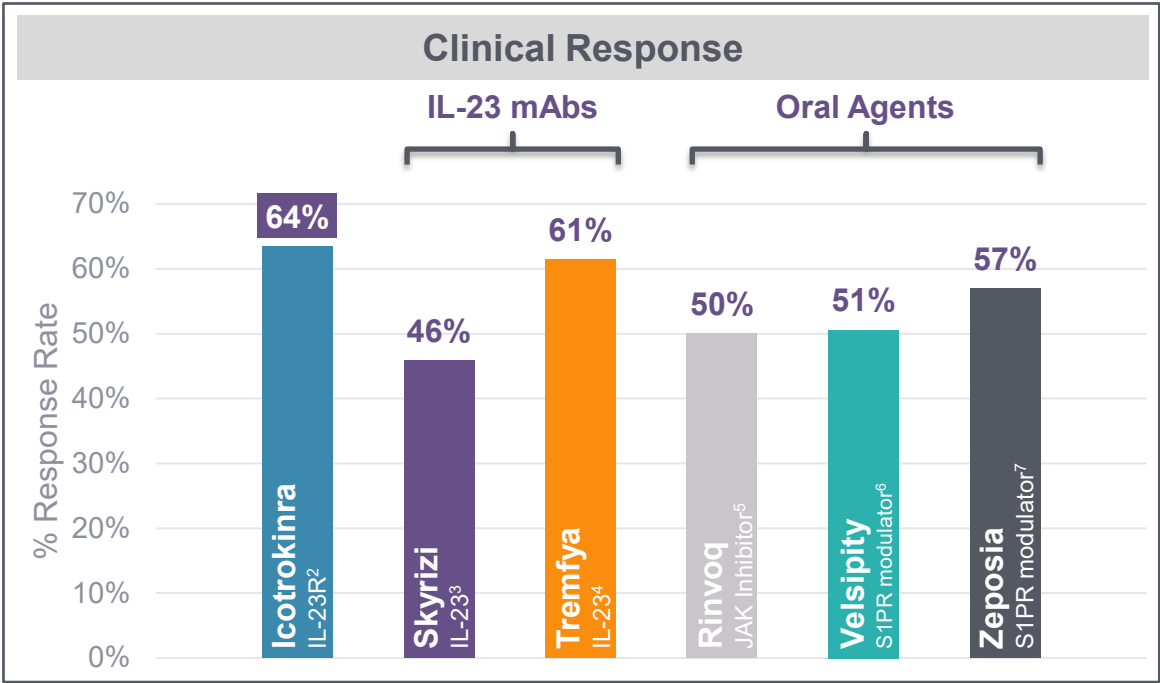
- AE-related **discontinuations similar to or lower than placebo**
- AE and SAE rates **comparable to placebo**
- Infection rates, including viral, generally comparable
- Common AEs (e.g., headache, GI) not meaningfully different

Sustained 67% IGA 0/1 response to Week 52

NDA filed for plaque psoriasis: July '25

Icotrokinra Cross-Trial Comparison to Phase 2 Benchmarks in UC¹

Clinical Response



Agent	Endpoint Timeframe	Placebo Response (%)
Icotrokinra	Wk 12	27.0
Skyrizi	Wk 12	20.0
Tremfya	Wk 12	27.6
Rinvoq	Wk 8	13
Velsipity	Wk 12	32.5
Zeposia	Wk 8	37

1. Cross trial (not head-to-head) comparisons of unadjusted (ie, non-placebo adjusted) response data from phase 2 studies.

2. Icotrokinra (JNJ-2113) highest dose (in mg; PO qd) with clinical response at Wk 12 (ie, decrease from baseline in the modified Mayo score by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 -point decrease from baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0 or 1). Clinical response (placebo): 27.0%. Protagonist Therapeutics, Inc. "Protagonist Reports Positive Top Line Results from Phase 2b Study of Icotrokinra Showing Potential to Transform the Treatment Paradigm for Patients with Ulcerative Colitis." News release. 10 March 2025.

3. Skyrizi 1200 mg IV (approved dose; phase 2 data) clinical response per Adapted Mayo score at Wk 12 (ie, decrease of $\geq 30\%$ and ≥ 2 points from baseline and a decrease in rectal bleeding score of ≥ 1 or an absolute rectal bleeding score ≤ 1). Clinical response score (placebo): 20.0%. Louis E, et al., *JAMA*. 2024;332:881-97.

4. Tremfya 200 mg IV (approved dose; phase 2 data) clinical response at Wk 12 (ie, decrease in modified Mayo score from baseline by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 -point decrease from baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0 or 1). Clinical response (placebo): 27.6%. Peyrin-Biroulet L, et al., *Gastroenterology*. 2022;165:1443-57.

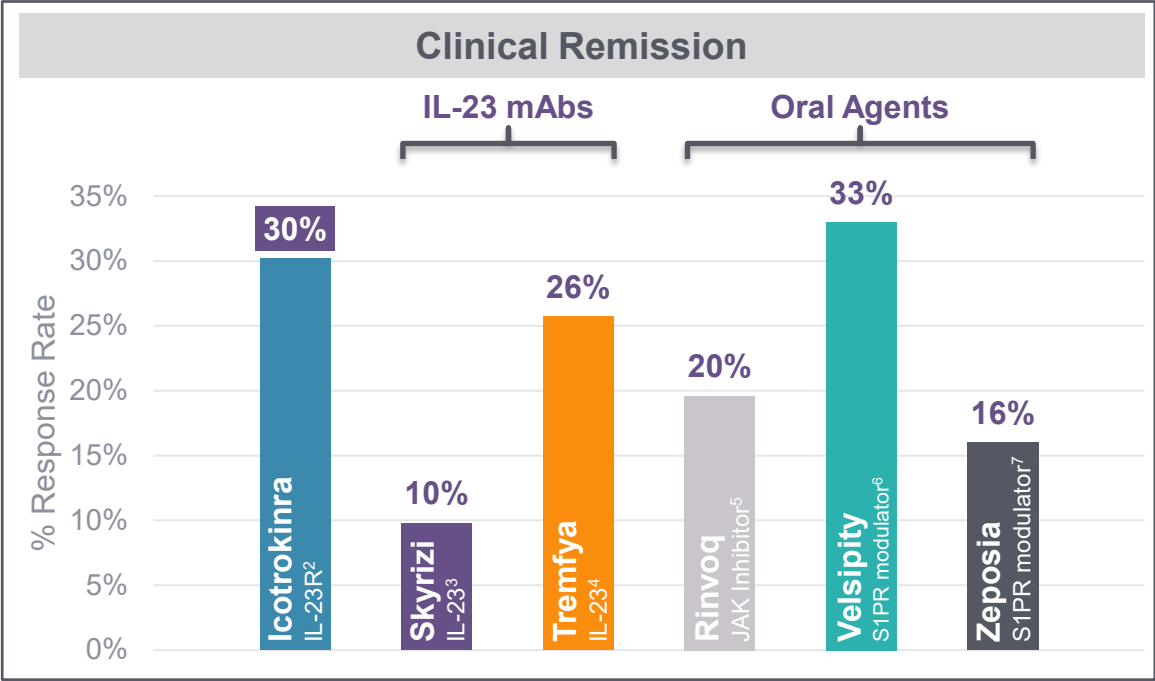
5. Rinvoq 45 mg PO QD (approved dose; phase 2 data) with clinical response at Wk 8 (ie, adapted Mayo score; defined as a decrease from baseline in the adapted Mayo score of 2 points and 30% from baseline, plus a decrease in rectal bleeding score of 1 or an absolute rectal bleeding score of 1). Clinical response (placebo): 13%. Sandborn WJ, et al., *Gastroenterology*. 2020;158:2139-49.

6. Velsipity 2 mg PO QD (approved dose; phase 2 data) with clinical response at Wk 12 (ie, met the criteria for clinical remission or had a decrease in modified Mayo Clinic score of 2 points and a decrease of 30%, with either a rectal bleeding score of 1 or a decrease in rectal bleeding of 1). Clinical response (placebo): 32.5%. Sandborn WJ, et al., *Gastroenterology*. 2020;158:550-61.

7. Zeposia 1 mg PO QD (approved dose; phase 2 data) with clinical response at Wk 8 (ie, reduction in the Mayo Clinic score of ≥ 3 points and $\geq 30\%$ from baseline, with a decrease in the rectal-bleeding subscore of ≥ 1 point or a subscore of ≤ 1). Clinical response (placebo): 37%. Sandborn WJ, et al., *New Engl J Med*. 2016;18:1754-62.

Icotrokinra Cross-Trial Comparison to Phase 2 Benchmarks in UC¹

Clinical Remission



Agent	Endpoint Timeframe	Placebo Remission (%)
Icotrokinra	Wk 12	11.1
Skyrizi	Wk 12	1.7
Tremfya	Wk 12	9.5
Rinvoq	Wk 8	0
Velsipity	Wk 12	8.1
Zeposia	Wk 8	6

1. Cross trial (not head-to-head) comparisons of unadjusted (ie, non-placebo adjusted) remission data from phase 2 studies.

2. Icotrokinra (JNJ-2113) highest dose (in mg; PO qd) with clinical remission at Wk 12 (ie, Mayo stool frequency subscore of 0 or 1 and not increased from induction baseline, a Mayo rectal bleeding subscore of 0, and a Mayo endoscopy subscore of 0 or 1 with no friability present on the endoscopy). Clinical remission (placebo): 11.1%. Protagonist Therapeutics, Inc. "Protagonist Reports Positive Top Line Results from Phase 2b Study of Icotrokinra Showing Potential to Transform the Treatment Paradigm for Patients with Ulcerative Colitis." News release. 10 March 2025.

3. Skyrizi 1200 mg IV (approved dose; phase 2 data) clinical remission per Adapted Mayo score at Wk 12 (ie, stool frequency subscore ≤1, and not greater than baseline, rectal bleeding subscore =0, and endoscopic subscore ≤1 without the evidence of friability). Clinical remission score (placebo): 1.7%. Louis E, et al., *JAMA*. 2024;332:881-97.

4. Tremfya 200 mg IV (approved dose; phase 2 data) clinical remission at Wk 12 (ie, Mayo stool frequency subscore of 0 or 1 and not increased from induction baseline, a Mayo rectal bleeding subscore of 0, and a Mayo endoscopy subscore of 0 or 1 with no friability present on endoscopy). Clinical remission (placebo): 9.5%. Peyrin-Biroulet L, et al., *Gastroenterology*. 2022;165:1443-57.

5. Rinvoq 45 mg PO QD (approved dose; phase 2 data) with clinical remission at Wk 8 (ie, adapted Mayo score; defined as stool frequency subscore of 1, rectal bleeding subscore of 0, and endoscopic subscore of 1). Clinical remission (placebo): 0%. Sandborn WJ, et al., *Gastroenterology*. 2020;158:2139-49.

6. Velsipity 2 mg PO QD (approved dose; phase 2 data) with clinical remission at Wk 12 (ie, Mayo Clinic endoscopic subscore ≤1 [with absence of friability], rectal bleeding score ≤1, and stool frequency score ≤1, with a frequency decrease of ≥1 point from baseline). Clinical remission (placebo): 8.1%. Sandborn WJ, et al., *Gastroenterology*. 2020;158:550-61.

7. Zeposia 1 mg PO QD (approved dose; phase 2 data) with clinical remission at Wk 8 (ie, Mayo Clinic score ≤2, with no subscore >1). Clinical remission (placebo): 6%. Sandborn WJ, et al., *New Engl J Med*. 2016;18:1754-62.

Iconokinra Phase 3 Ulcerative Colitis (ICONIC-UC) and Phase 2b/3 Crohn's Disease (ICONIC-CD) Clinical Studies

Potential Registration-Enabling, Phase 3 Studies Underway

- **Phase 3 ICONIC-UC study in adult and adolescent participants with moderately to severely active ulcerative colitis¹:**
 - Double-blind induction study in adults (co-primary endpoint at Week 12):
 - Percentage of adult participants in clinical remission^a
 - Double-blind maintenance study in adults (co-primary endpoint at Week 40):
 - Percentage of adult participants in clinical remission^a
 - Open-label induction study in adolescents (endpoint at Week 12):
 - Percentage of adolescent participants in clinical response^b
 - Open-label maintenance study in adolescents (co-primary endpoint at Week 40):
 - Percentage of adolescent participants in clinical remission^a
- **Phase 2/3 ICONIC-CD study in participants with moderately to severely active Crohn's disease²:**
 - Induction study 1 (co-primary endpoint at Week 12):
 - Number of adult participants with clinical response^c
 - Induction study 2 (co-primary endpoint at Week 12):
 - Number of adult participants with clinical remission^d
 - Number of adult participants with endoscopic response^e
 - Maintenance study in week 12 induction responders with co-primary endpoints at Week 40:
 - Number of adult participants with clinical remission^d
 - Number of adult participants with endoscopic response^e

^aClinical remission is defined as stool frequency subscore of 0 or 1, a rectal bleeding subscore of 0, and an endoscopy subscore of 0/1.

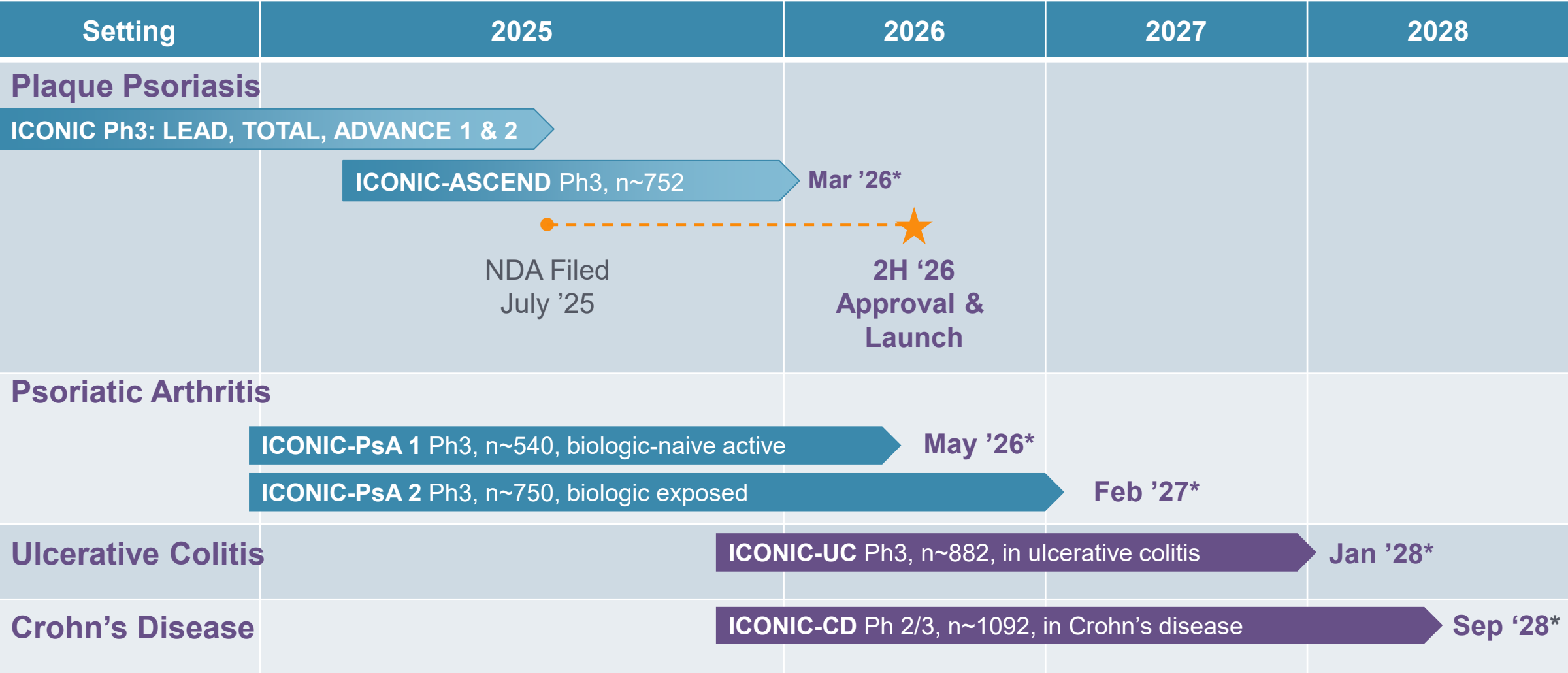
^bClinical response defined as a decrease from baseline in the modified Mayo score by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 -point decrease from baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0/1.

^cClinical response is defined as ≥ 100 -point reduction from baseline in Crohn's Disease Activity Index (CDAI) score. CDAI scores range from 0 to approximately 600. Higher score indicates higher disease activity.

^dClinical remission is defined as CDAI score < 150 . CDAI scores range from 0 to approximately 600. Higher score indicates higher disease activity.

^eEndoscopic response is defined as $> 50\%$ improvement from baseline in Simple Endoscopic Score for Crohn's Disease (SES-CD) score or a decrease of at least 2 points in participants with a baseline score of 4 and isolated ileal disease. SES-CD score can range from 0 to 56. Higher scores indicate more severe disease.

Icotrokinra: Potential Commercial Launch in Psoriasis in 2026 followed by Multiple Indications Expansion in Coming Years



* Primary Completion Date on clinicaltrials.gov

Rusfertide: Hepcidin Mimetic Potential as a new practice changing standard of care in Polycythemia Vera (PV)

PV: A rare myeloproliferative neoplasm
characterized by excessive production of
red blood cells¹

- Primary treatment goal is to maintain Hct
<45%^{2,3,4},

Polycythemia Vera. <https://rarediseases.org/rare-diseases/polycythemia-vera/>.

2. Spivak JL. *Ann Hematol* 2018; 19(2):1-14

3. Marchioli R, et al. *N Engl J Med* 2013; 368:22-33. 4. Barbui, T, et al.
Leukemia 2018;32;1057-69



Polycythemia Vera (PV)

Disease Background

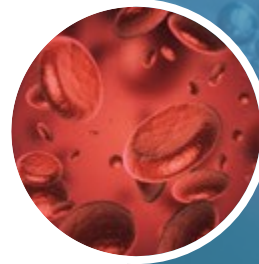
Rare myeloproliferative neoplasm characterized by excessive production of red blood cells (RBCs)¹

- Elevated hematocrit (Hct) >45%²

Serious, chronic disease associated with increased thrombotic and cardiovascular risks¹⁻³

~155,000 PV patients in US, with a median survival of 14 years^{1,5}

1. NORD Rare Disease Database, Polycythemia Vera. <https://rarediseases.org/rare-diseases/polycythemia-vera/>
2. Spivak JL. Ann Hematol 2018; 19(2):1-14
3. Marchioli R, et al. N Engl J Med 2013; 368:22-33
4. Barbui T, et al. Leukemia 2018;32:1057-69
5. Tefferi A, Barbui T. Am J Hematol. 2023;98:1465-87.



Primary Treatment goal is to maintain

Hct < 45%^{3,4}

Polycythemia Vera (PV)

Significant Unmet Medical Need

1. Hct Control

- **Maintaining Hct<45% is critical**, as per NCCN guidelines
- **~4 times higher risk of death from uncontrolled Hct¹**

2. Patients

- Up to **78% of patients have uncontrolled Hct $\geq 45\%$ ²**
- **Thrombotic events (34-41%)³⁻⁵**
- **Burdensome symptoms**
 - Fatigue within last 12 months (73%)⁶
 - Full days in bed (23%)⁶
 - Iron deficiency (anemia)⁷

3. Therapy

- **Current standard of care (SOC)**
 - Phlebotomy, hydroxyurea (HU), interferon, Jakafi
 - Inadequate
- **No RBC-specific pharmaceutical option available**

Rusfertide, a hepcidin mimetic, could potentially provide an RBC-specific treatment option for PV

1. Marchioli R, et al. *N Engl J Med*. 2013;368:22-33.

2. Verstovsek S, et al. *Ann Hematol*. 2023;102(3):571-581.

3. Kaifia A, et al. *J Hematol Oncol*. 2016;9:18.

4. Griesshammer M, et al. *Ann Hematol*. 2019;98(5):1071-1082.

5. Polycythemia vera: the natural history of 1213 patients followed for 20 years. Gruppo Italiano Studio Policitemia. *Ann Intern Med* 1995;123(9):656-64.

6. Mesa R, et al. *BMC Cancer* 2016;16:167.

7. Ginzburg et al. *Leukemia* 2018;32:2105-2116.

Rusfertide Phase 3 VERIFY Study Results: PV^{1,2}

Durable, Sustained Hct Control With Fewer PHLs vs. Placebo, Addressing Major Unmet Need in PV^{1,2}

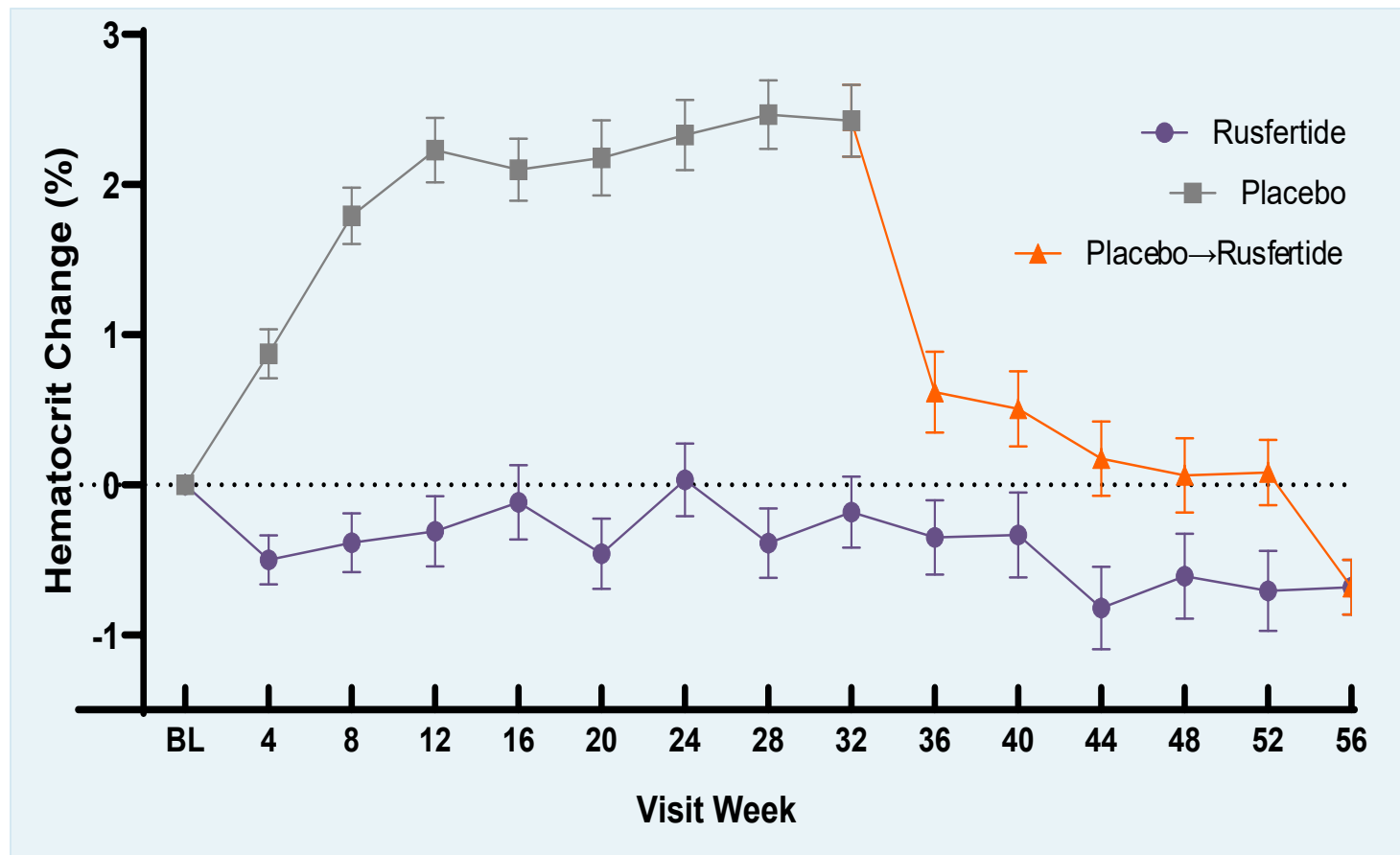
- **Primary endpoint: Wks 20-32**

1. Clinical Response: rusfertide vs placebo (p<0.0001) ✓

- **Key 2° endpoints: Wks 0-32**

1. Average number of PHLs (p<0.0001) ✓
2. Proportion of patients with Hct <45% (p<0.0001) ✓
3. Average PROMIS Fatigue SF-8a Score ✓
4. Average MFSAF Total Symptom Score ✓

Rusfertide was generally well-tolerated through 52 Weeks of treatment. The most common treatment-emergent adverse events (AE) in rusfertide-treated patients were injection site reactions (47.4%), anemia (25.6%) and fatigue (19.6%), which were primarily grade 1 or 2. Serious AEs occurred in 8.1% of overall rusfertide-treated patients.



VERIFY featured in Plenary Presentation at ASCO'25

Identifying PV Patients Who Will Benefit From Rusfertide

Defining patient population characteristics using current market treatments and trends is the key to understanding rusfertide's market opportunity

Key indicators of suboptimal control for a PV patient

Phlebotomy Frequency



A high frequency of phlebotomies indicates the intervention is not working to maintain Hct $\leq 45\%$

Frequent phlebotomies may exacerbate iron deficiency and related symptoms¹

Dosing of Hydroxyurea



High doses of HU (1-2 g/day) can indicate difficult-to-control PV, especially when used in combination with phlebotomy

Potential serious side effects and adverse events, including leukemic transformation and skin malignancies²

Thrombotic Events



Occurrence of thrombotic events following treatment initiation can be an indicator of the ineffectiveness of the treatment – an example of a sub-optimally controlled PV patient

1. McMullin MF, et. al. *Br J Haematol.* 2019; 184(2):176-191. 2. Jinna S and Khandar PB. NIH 2022. <https://www.ncbi.nlm.nih.gov/books/NBK537209/>. 3. Stegelmann F, et al. *Leuk.* 2021;35(2):628-631.

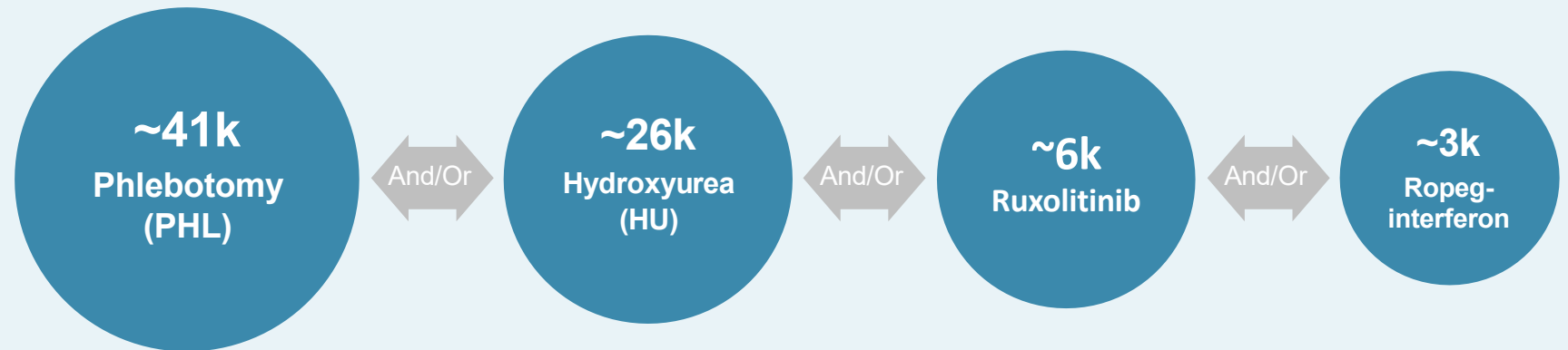
Rusfertide: An RBC-Centric Treatment Option for PV

Peak Revenue Potential of \$1-2 Billion³

**~155k
diagnosed
patients in the US with
~78k treated**

Treatment Paradigm

Patients are often on polytherapy and will cycle through various treatments¹

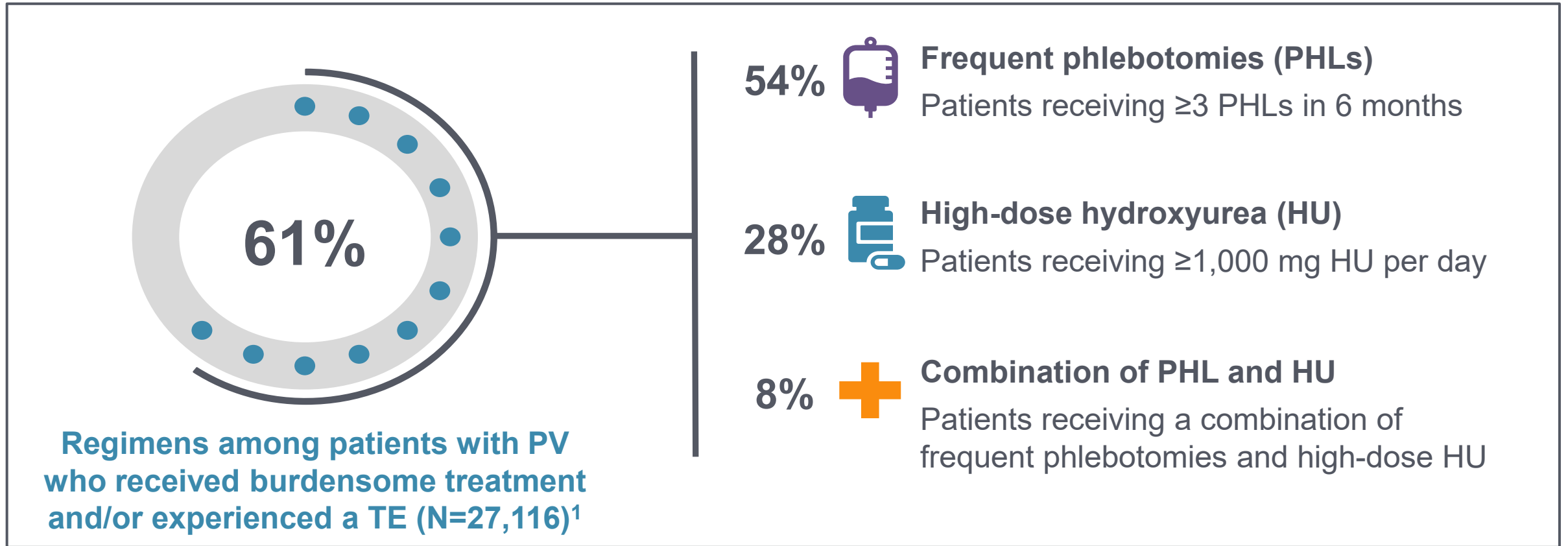


- Unmet need exists at each step of the treatment landscape
 - **~78% with uncontrolled Hct<45% despite current treatments²**
- **Rusfertide expected to be used at each step³**

Rusfertide provides consistent hematocrit control and can potentially reduce treatment burden to achieve **peak revenue potential of \$1-2B³**

Most Patients With Polycythemia Vera Experience Suboptimal Hct Control


Frequent Phlebotomies, High-Dose Hydroxyurea and/or Post-Treatment TEs Are Common



Komodo Health claims database (data from January 2016 to December 2022); includes patients who were ≥ 18 years old and had at least two clinical diagnoses of PV that were at least 6 months apart.

1. Kuykendall A, et al. *Expert Rev Hematol*. 2025;Epub ahead of print.

- PV is a rare myeloproliferative neoplasm characterized by excessive production of red blood cells¹
 - Elevated hematocrit (Hct) >45%²
 - Primary treatment goal is to maintain Hct <45%^{3,4}

HEMATOLOGY	 RUSFERTIDE Hepcidin Mimetic	Discovery/Pre-Clinical	Phase 1	Phase 2	Phase 3	Key Milestones	References
		Polycythemia Vera (PV)					
		VERIFY Ph 3, n = 293				<ul style="list-style-type: none">• Topline 32-Wk Primary EP results• 52-Wk durability of response results	<ul style="list-style-type: none">• Kuykendall AT et al. <i>J Clin Oncol</i> 2025;43(LBA3).• Kuykendall AT et al. <i>Blood</i> 2025;146(Suppl 1):81.
		REVIVE Ph 2, n = 70				<ul style="list-style-type: none">• Completed	<ul style="list-style-type: none">• Kremyanskaya M, et al. <i>New Engl J Med</i> 2024;390:723-35.
		THRIVE LTE, n = 46				<ul style="list-style-type: none">• Ongoing; for REVIVE patients (OLE)	<ul style="list-style-type: none">• Pemmaraju N, et al. <i>Blood</i> 2025;146(Suppl 1):3810.
		PACIFIC Ph 2, Elevated Hct (>48%), n = 20				<ul style="list-style-type: none">• Completed	<ul style="list-style-type: none">• Chew LP, et al. <i>Leuk Res</i> 2025;159:108132. Epub ahead of print.

Rusfertide has **Orphan Drug** designation, **Fast Track** status, and **Breakthrough Therapy Designation**

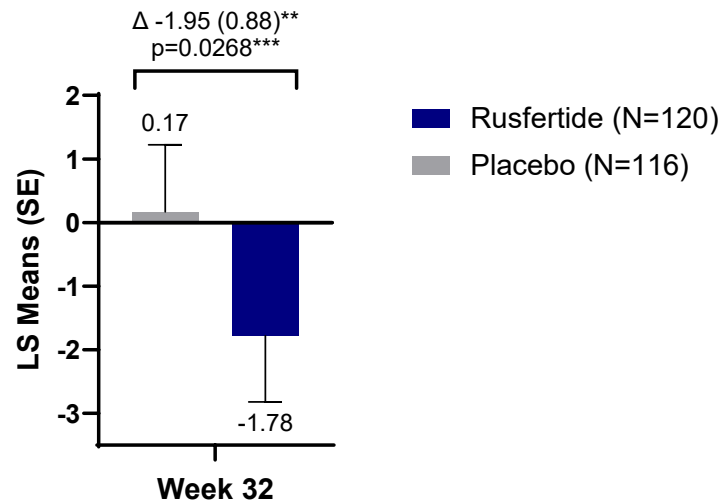
Hct, hematocrit; OLE, open-label extension.

Rusfertide Led to Statistically Significant Improvements In Patient-Reported Outcomes (PROs) vs Placebo^{1,2}

PRO-Focused Key Secondary Endpoints 3 and 4

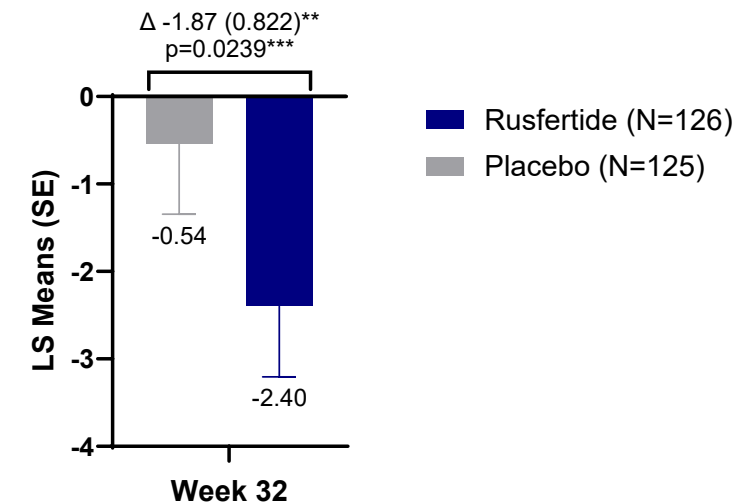
Improvement in PROMIS Fatigue SF-8a T-Score
With Rusfertide vs Placebo

LS Means Difference at Week 32:



Improvement in MFSAF TSS7
With Rusfertide vs Placebo

LS Means Difference at Week 32:



LS means (SE) difference (rusfertide – placebo); *p-value associated with the LS mean difference.

LS, least-squares; MFSAF TSS7, Myelofibrosis Symptom Assessment Form Version 4.0 Total Symptom Score 7 Items; PROMIS, Patient-Reported Outcomes Measurement Information System; SF-8a, Short Form 8a; SE, standard error.

Rusfertide for Polycythemia Vera

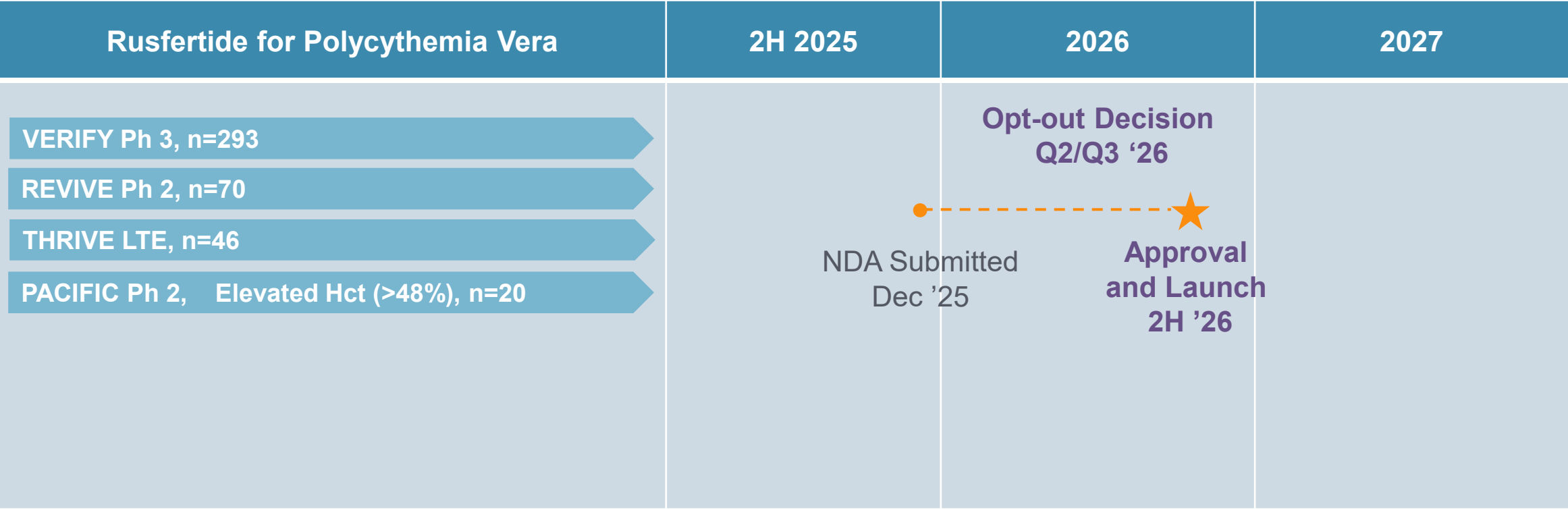
Successful Completion of Phase 2 and 3 Studies

- Phase 2 **REVIVE** Study (N=70)¹⁻⁵:
 - Randomized withdrawal data presented at EHA 2023¹ (late-breaking oral presentation); data published in *NEJM*²
- Phase 2 **THRIVE** Study (N=46)⁶:
 - Long-term extension study (for REVIVE patients on study years 3-5)
- Phase 2 **PACIFIC** Study (N=20)⁷:
 - High hematocrit (Hct >48%); 52-week open-label study completed in Q2 2023; data published in *Leuk Res*
- Phase 3 **VERIFY** Study (N=293)⁸⁻¹¹
 - Primary endpoint and all four key secondary endpoints achieved in March 2025⁸
 - Data presented in plenary presentation at ASCO'25;⁹ data included in NDA and will also be included in future regulatory filings (eg, MAA)
 - 52-week durability of response data presented at ASH'25¹⁰; additional data on PROs also presented at ASH'25¹¹

Rusfertide has **Orphan Drug** designation, **Fast Track** status, and **Breakthrough Therapy** designation

1. Kremyanskaya et al. EHA2023; Abstract LB2710; 2. Kremyanskaya M, et al. *New Engl J Med*;2024;390:723-35; 3. Ritchie EK, et al. *Blood*. 2023;142 (Supplement 1): 745; 4. Pettit K, et al. EHA Library. 06/13/2024; 422322; S218; 5. Gerds, AT et al. *Blood* 2024;144 (Suppl. 1):4559; 6. Pemmaraju N, et al. *Blood* 2025;146(Suppl 1):3810; 7. Chew LP, et al. *Leuk Res*; 2025;159:108132. Epub ahead of print; 8. Takeda and Protagonist Therapeutics, Inc. "Protagonist and Takeda Announce Positive Topline Results from Phase 3 VERIFY Study of Rusfertide in Patients with Polycythemia Vera." News release. 3 March 2025; 9. Kuykendall AT et al. *J Clin Oncol* 2025;43(17_suppl):LBA3; 10. Kuykendall AT et al. *Blood* 2025;146(Suppl 1):81; 11. Bankar A, et al. *Blood* 2025;146(Suppl 1):5588.

Rusfertide for PV: NDA Filing, Approval and Commercialization Launch Timelines



Rusfertide has **Orphan Drug** designation, **Fast Track** status, and **Breakthrough Therapy** designation

Potential FDA approval and commercial launch in 2H 2026



R&D Pipeline

I&I, Hematology, Obesity

PN-881: Oral IL-17 Peptide Antagonist

Clinically and commercially validated target
for multiple inflammatory conditions

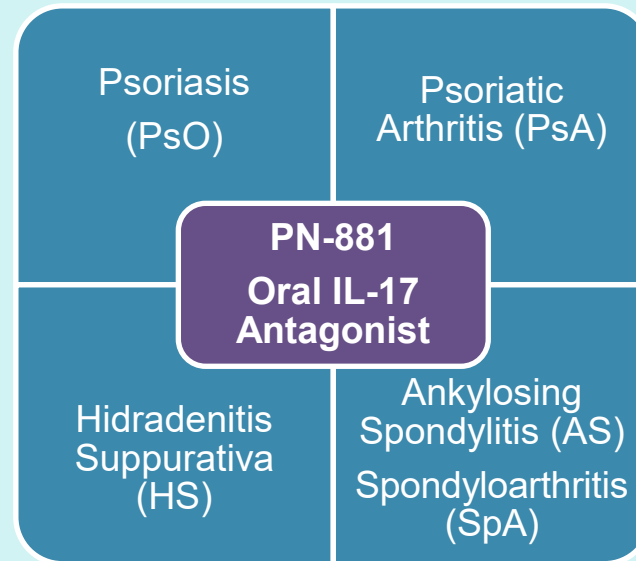
Targeting a \$17B+ Market Opportunity with Differentiated ORAL IL-17 Inhibition

PN-881: A Potential Best-in-Class Oral IL-17A and F Antagonist

IL-17: Validated Market Opportunity¹



Strategic Indication Expansion



PN-881: Differentiated Target Product Profile

PN-881 Blocks All Three IL-17 Dimers



- **Oral Peptide**
- **Triple specificity²** matching Bimzelx profile
- Potential **best-in-class profile**

PN-881: A wholly-owned ORAL IL-17A and F antagonist in Clinical Studies

Criteria for Nomination of Oral PN-881 Development Candidate¹

Oral PN-881 Achieved all the Criteria for a Development Candidate Nomination



Attribute	Criteria
Potency	<ul style="list-style-type: none">✓ Sub-nM potency vs. IL-17 AA✓ Blocks all dimeric forms of IL-17: AA, AF, FF
Stability	<ul style="list-style-type: none">✓ Stable in simulated gastric and intestinal fluids✓ Stable in serum with $t_{1/2}$ >24 hr✓ Metabolic stability✓ Thermostability
PK	<ul style="list-style-type: none">✓ Oral exposure and half-life in rodent and higher species sufficient for oral daily dosing
PD model	<ul style="list-style-type: none">✓ Mouse hIL-17 challenge, CXCL1 model
Efficacy Model	<ul style="list-style-type: none">✓ Rat IL-23-induced skin inflammation model

PN-881 Potently Inhibits IL-17AA, AF, and FF¹

Similar Potency to Bimekizumab and ~70-fold More Potent Than Secukinumab

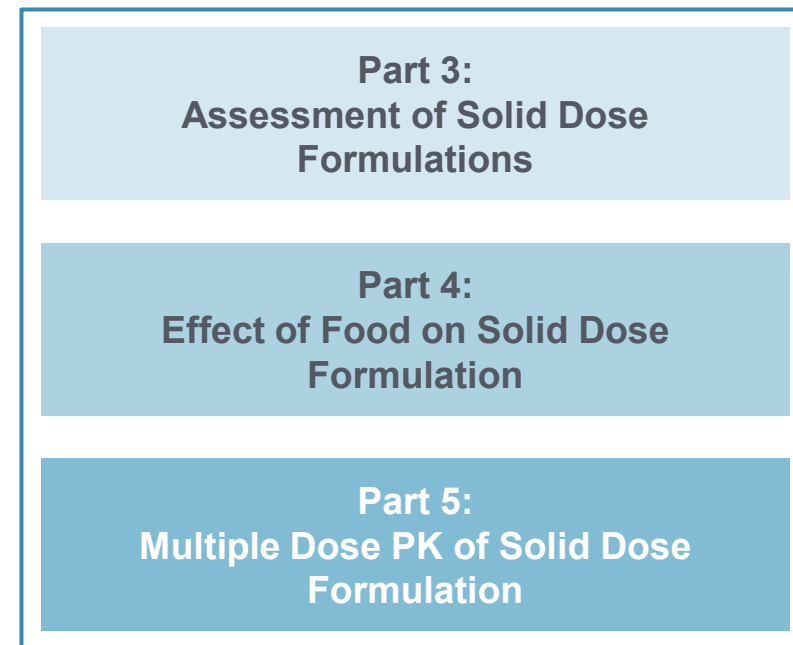
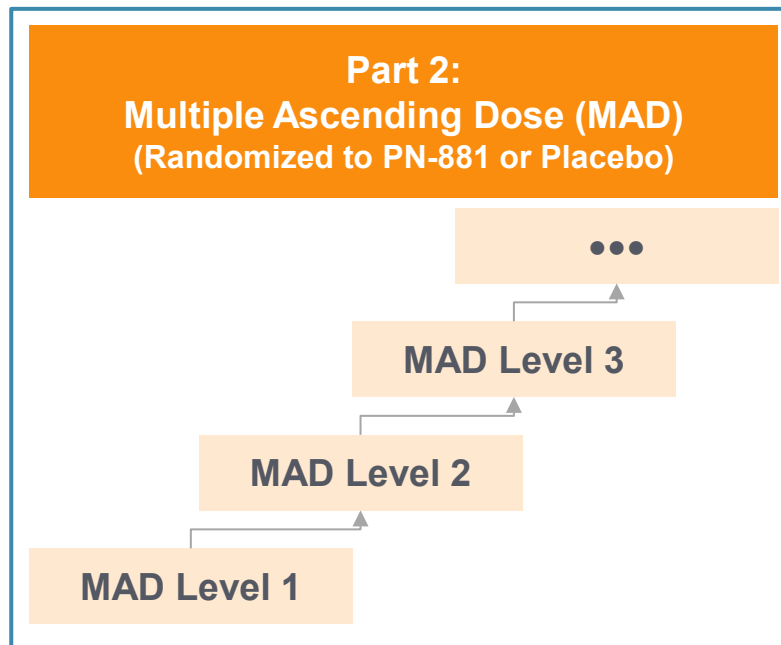
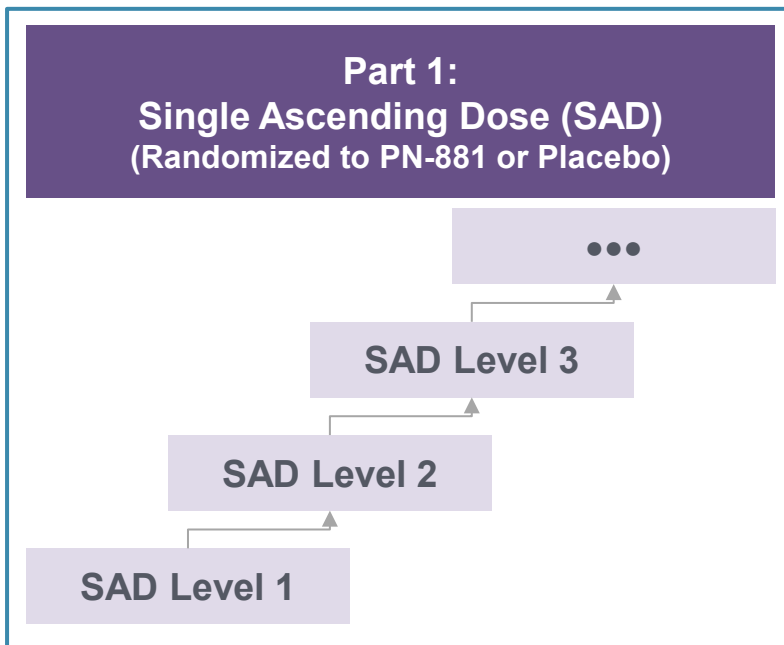
PN-881 vs Injectables	Neonatal Human Dermal Fibroblast (nHDF) and Human HT-1080 Fibrosarcoma Cell Line (HT-1080) IC ₅₀ (nM)					
	IL-17 AA		IL-17 AF		IL-17 FF	
	nHDF	HT-1080	nHDF	HT-1080	nHDF	HT-1080
PN-881 (Oral)	0.15	0.13	29	27	15	14
Injectable Agents						
Bimzelx [®]	0.12	0.17	18	19.5	14	13
Cosentyx [®]	10	11	175	151	Inactive	Inactive

ND, not determined.
1. Adapted From Manrique M, et al. Presented at the European Academy for Dermatology and Venereology (EADV) Congress. September 17-20, 2025, Paris, France.

PN-881 Achieves Desired Pharmacology in Preclinical Models

- High systemic exposures after oral administration to mice, rats, dogs, and cynomolgus monkeys
 - >100 ng/mL in cynomolgus monkeys with oral dose of 2.5 mg/kg
- Blockade of IL-17 in in vivo mouse models after oral administration
 - PN-881 inhibits CXCL1 production in serum and in skin in mice challenged with supra-physiologic doses of human IL-17
 - PN-881 shows efficacy at doses as low as 1 mg/kg BID in inhibiting ear inflammation (erythema and thickness) in rats challenged with repeated IL-23 injections
- Suitable tissue distribution into the skin in preclinical models
 - Ratio of skin-to-plasma concentrations comparable to or better than monoclonal antibodies

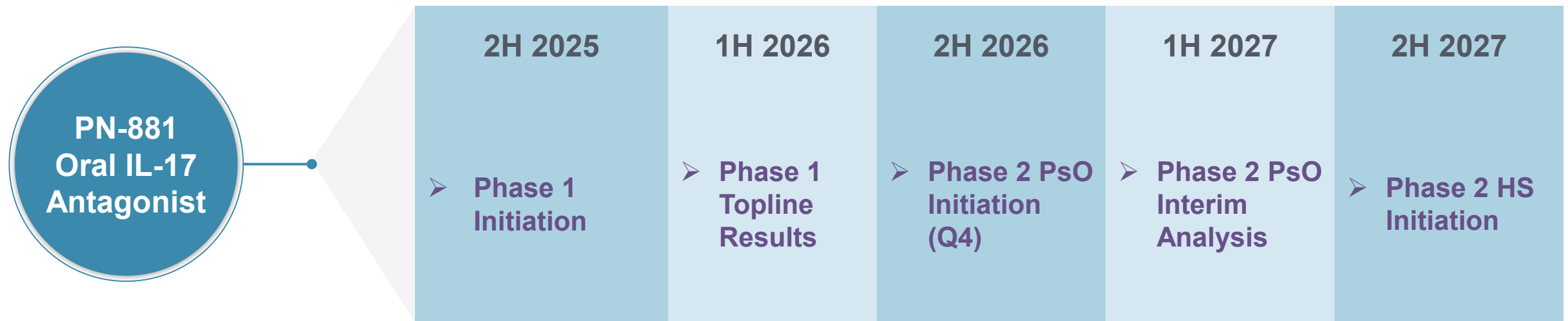
PN-881: Comprehensive Phase 1 Study in Healthy Human Volunteers (N~142)



- **Primary endpoint:**
 - Incidence and severity of treatment-emergent adverse events (pre-dose to 7 days after last dose)
- **Secondary endpoints:**
 - Pharmacokinetics and pharmacodynamics

Phase 1 completion by mid-year; Phase 2 Psoriasis study initiation by year end

PN-881: Near-Term Clinical Development Plan



PN-8047: An Oral Hepcidin Functional Mimetic

Working towards a Hepcidin pathway
based ORAL option in erythrocytosis
mediated indications

PN-8047: Oral Hepcidin Functional Mimetic

Leverages Our Expertise in the Hepcidin Pathway



Rusfertide established hepcidin mimetics as a therapeutic option for polycythemia vera

Clinical validation of hepcidin biology



PN-8047: a wholly owned asset that builds on Protagonist's knowledge base of hepcidin pathway

Novel oral small molecule; selected from extensive head-to-head comparison of different modalities

Potentially maximizes the total addressable global market for hepcidin mimetics

Provides a therapeutic option that may reduce treatment barriers



New IP provides extended periods of market exclusivity

PN-8047: An Oral Hepcidin Functional Mimetic for Targeting Polycythemia Vera

PN-8047 has similar potency as rusfertide and is superior to hepcidin

	Human-FPN Potency EC ₅₀ (nM)
Hepcidin	13.7
Rusfertide	2.5
PN-8047	4.3

Table shows average values for effective concentration for 50% signal (EC₅₀) in nano-molar (nM)

Human-FPN assay measured functional response of increases in transferrin-receptor1 due to increase in intracellular iron concentrations after ferroportin internalization

Cyno-FPN assay measured reduction in NanoLuc® Luciferase signal, downstream of ferroportin internalization

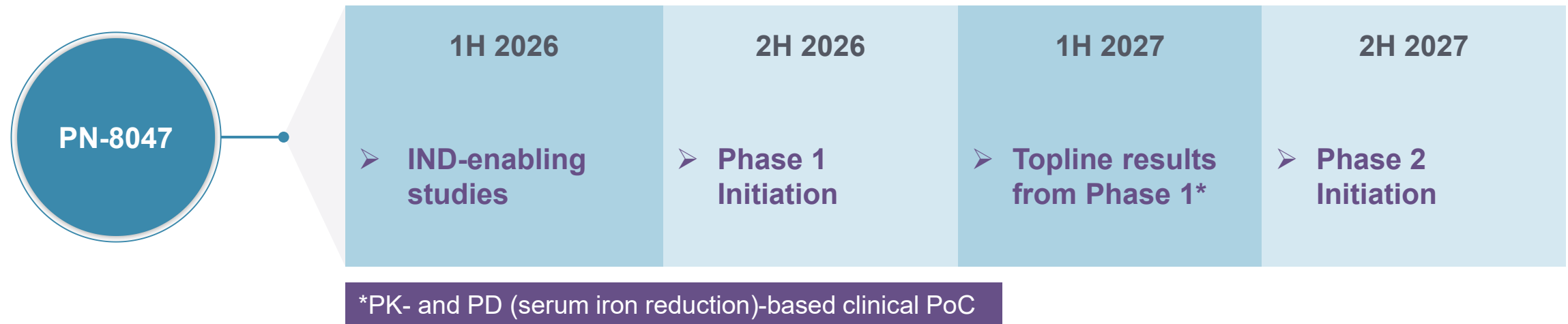
FPN, Ferroportin; Cyno, Cynomolgus Monkey

PN-8047: Novel Oral Small Molecule that is Potent with Excellent PK, PD, and Efficacy Properties

Attributes	Summary of PN-8047 Properties
Potency	<ul style="list-style-type: none">✓ Nanomolar potency in the T47D-TfR1 functional assay✓ Similar potency as Rusfertide
in vitro ADME	<ul style="list-style-type: none">✓ Metabolically stable in liver microsomal incubations✓ Good permeability for oral dose
PK	<ul style="list-style-type: none">✓ Oral exposure and $T_{1/2}$ in rodents, cyno, and dog sufficient for oral daily dosing
PD Model	<ul style="list-style-type: none">✓ Iron reduction after single and repeat oral dosing to dog and monkey to support once-daily oral dosing✓ Sustained iron reduction for 16 hr
Efficacy Model	<ul style="list-style-type: none">✓ Efficacy in the erythropoietin (EPO)-induced mouse model for erythrocytosis✓ Reduction of hemoglobin and hematocrit after repeat oral dosing to cynos
DDI	<ul style="list-style-type: none">✓ No DDI risk potential
Safety	<ul style="list-style-type: none">✓ No major off-target activities✓ Tolerated in 7-day rat MTD

Phase 1 initiation by year-end
PK/PD based preliminary clinical PoC achievable in phase 1

PN-8047: Oral Hepcidin Functional Mimetic Development Timelines



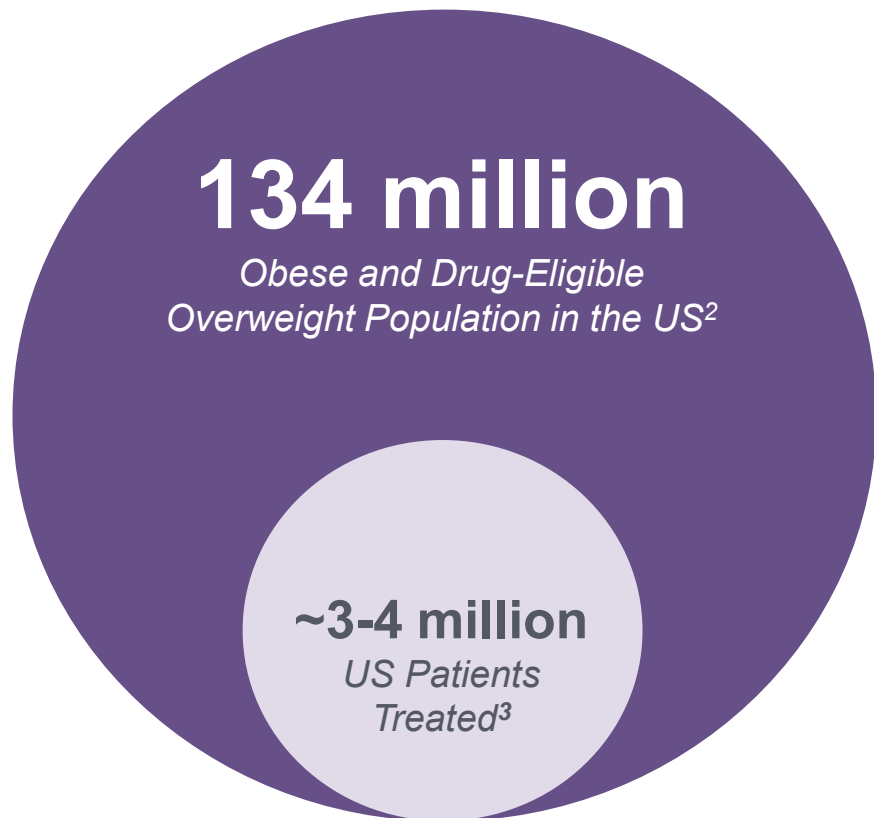
Anti-Obesity Therapeutics: Dominated by injectable appetite-suppressing hormone peptide mimetics

Oral Peptide agents offer a strong differentiation and address unmet medical need

Obesity: Unprecedented Pharmaceutical Opportunity in the US and Worldwide

Only ~2-3% of Eligible Patients Receive Drug Treatment¹

Massive Untapped Opportunity in Obesity Care



- Obesity is a global epidemic
 - In 2024, nearly **40% of Americans were obese** or considered drug-eligible overweight¹
- Current challenges with anti-obesity drugs¹
 - Convenience; needle avoidance
 - Early days & limited options
 - Adverse effects

‘Oral’ and ‘more effective’ agents:
An attractive option for a chronic condition
and affiliated co-morbidities

Desirable Features for Next Generation Anti-Obesity Candidate

- Currently approved therapies:
 - Semaglutide (Wegovy® *Injectable*): Mono GLP-1R agonist – 13.7% body weight loss¹
 - Semaglutide (Wegovy® *Pill*): Mono GLP-1R agonist – 13.6% body weight loss²
 - Tirzepatide (Zepbound®): Dual GLP-1R and GIPR agonist – 20.2% body weight loss¹
- Retatrutide (injectable; triple agonist) and orforglipron (oral; mono GLP-1R agonist) in Ph3 development^{3,4}



Proprietary Peptide Technology

An ORAL Triple-Agonist Peptide (GLP-1R/GIPR/GCGR)

- Potential improvements
 - **Oral option**
 - Magnitude of body weight loss
 - Potential secondary benefits in co-morbidities (diabetes, CVD, OSA, CKD, MASH etc.)
 - Improving tolerability: mainly GI (nausea, vomiting)
 - Favorable fat vs. lean mass loss

PN-477: A Novel Triple GLP/GIP/GCG Receptors Agonist Peptide

Optionality for Oral or Subcutaneous Dosing

Potential Improvements

- **Magnitude** and **quality** of body weight loss
 - Potential secondary benefits in co-morbidities (diabetes, CVD, OSA, CKD, MASH etc.)
 - Favorable fat vs. lean mass loss
- Improving **tolerability**: mainly GI (nausea, vomiting)
- Maximize **optionality** of one drug substance with two formulations (oral or sc injectable)

**ORAL Triple-Agonist
Once-daily Dosing**

PN-477_o

**Injectable Triple-Agonist
Once-weekly Dosing**

PN-477_{sc}

PN-477 Oral Triple Agonist (GLP-1R, GIPR, GCGR) Peptide

Novel Chemical Entity, Oral Triple Agonist, Potent, and Stable in GI Fluids

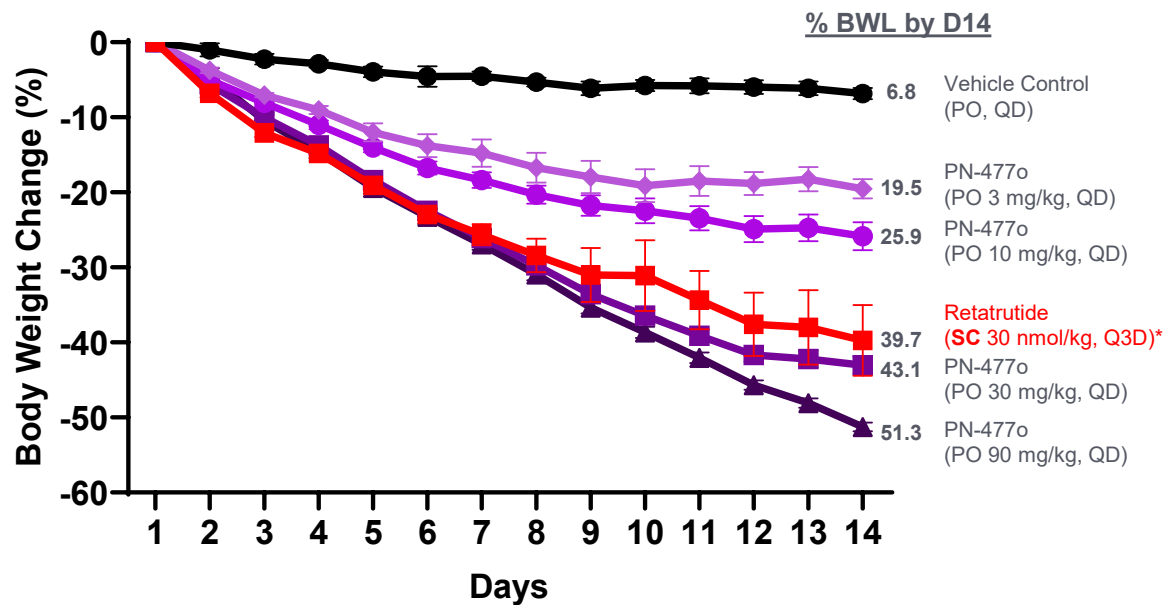
Attribute	Criteria
Potency	✓ nM potency vs GLP-1R, GIPR, GCGR
Stability	<ul style="list-style-type: none">✓ Stable in simulated gastric and intestinal fluids✓ Stable in serum✓ Metabolic stability✓ Thermostability
Efficacy Model	✓ Mouse Diet Induced Obesity (DIO) model
<i>in vivo</i> Pharmacodynamics	✓ Glucose control with glucose tolerance test
<i>in vivo</i> Pharmacokinetics	<ul style="list-style-type: none">✓ Oral bioavailability demonstrated in mouse, rat, dog, cynomolgus monkey✓ GI stability and Oral PK supports once-a-day oral dosing✓ PK profile supports once-a-week subcutaneous dosing

GI: Gastrointestinal; PK: Pharmacokinetic

Oral PN-477o and Subcutaneous PN-477sc

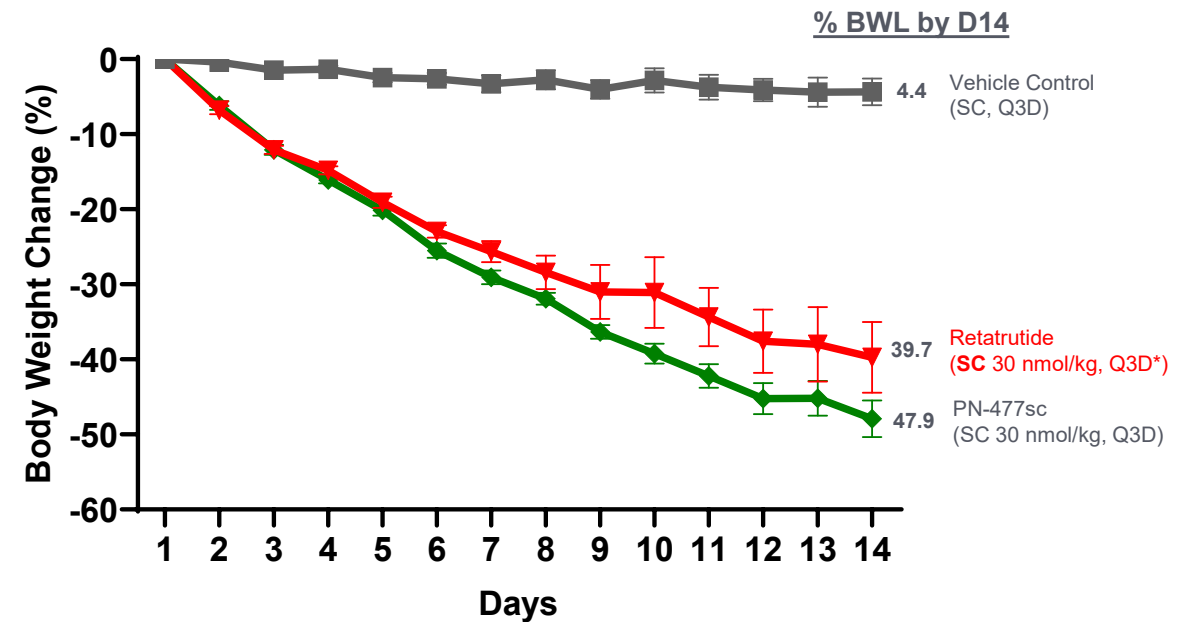
DIO Mice Study #1

% Body Weight Change, PO: Days 1-14



- Dose Proportional Body Weight Loss of Up to 50% with Oral PN-477o

% Body Weight Change, SC: Days 1-14



- Subcutaneous PN-477sc Achieves Body Weight Loss Comparable to Retatrutide

PN-477: A Potential Best-in-Class Triple Agonist Anti-Obesity Peptide Development Candidate with Convenience of Once-Daily Oral and Once-Weekly SC Dosing

- Novel, orally stable, and potent triple agonist (GLP-1R, GIPR, and GCGR)
- Engineered balance of GLP-1R, GIPR, GCGR absolute and relative potencies
 - Designed to provide maximal weight loss and optimal body composition of retatrutide and GI tolerability of tirzepatide
- Weight loss in DIO mice benchmarks favorably versus retatrutide
 - Dose-proportional body weight loss of up to 50% in DIO mouse model achieved with oral administration of PN-477o
 - PN-477sc provides similar body weight loss as retatrutide with equivalent SC dose
 - Preferential fat mass to lean mass loss observed; similar to retatrutide
- Weight loss after single dose of PN-477sc benchmarks favorably versus retatrutide in normal dogs and monkeys
- PK profiles after Oral and SC dosing in normal dogs and monkeys support:
 - **PN-477o**: Once-daily ORAL Triple-Agonist Peptide
 - **PN-477sc**: Once-weekly injectable Triple-Agonist Peptide
- IND-enabling studies underway

PN-477: Near-Term Clinical Development Plan



*PN-477sc weekly sc dosing; PN-477o once daily oral dosing

**Phase 1 study results could provide preliminary clinical PoC

PN-458: A Highly Potent Oral Dual GLP-1/GIP Receptor Agonist

Potential Weight Loss Profile and GI Tolerability of Tirzepatide



	Human EC ₅₀ (nM)		
	GLP-1R	GIPR	GCGR
Retatrutide ^{2,‡} (Eli Lilly Triple GLP-1R/GIPR/GCGR)	14.6	1.6	19.2
PN-477	6.4	0.4	14.8
Tirzepatide ^{1,‡} (Eli Lilly Dual GLP-1R/GIPR)	23.1	1.7	NA [†]
PN-458	7.8	0.86	NA[†]

[‡]Sourced from *1PlusChem Cat. 1P01MVTY (Tirzepatide); MCE Cat. HY-P3506 (Retatrutide)*

[†] **NA: Not Active**

- PN-458 is higher potency than Tirzepatide for GLP-1R and GIPR
- Higher GIPR potency may be favorable for better GI tolerability^{4,5}

PN-458 Dual Agonist (GLP-1R, GIPR) Peptide

Novel Chemical Entity, Oral Dual Agonist, Potent, and Stable in GI Fluids

Attribute	Criteria
Potency	✓ nM potency vs GLP-1R, GIPR
Stability	✓ Stable in simulated gastric and intestinal fluids ✓ Stable in serum ✓ Metabolic stability ✓ Thermostability
Efficacy Model	✓ Mouse Diet Induced Obesity (DIO) model
<i>in vivo</i> Pharmacodynamics	✓ Glucose control with glucose tolerance test
<i>in vivo</i> Pharmacokinetics	✓ Oral bioavailability demonstrated in mouse, rat, dog, cynomolgus monkey ✓ GI stability supports once-a-day oral dosing ✓ Plasma PK profile supports once-a-week subcutaneous dosing

GI: Gastrointestinal; PK: Pharmacokinetic

PN-458: A Potential Best-in-Class Dual Agonist Anti-Obesity Peptide Development Candidate with Convenience of Once-Daily Oral and Once-Weekly SC Dosing

- Novel, orally stable, and potent dual agonist (GLP-1R and GIPR)
- Engineered balance of GLP-1R and GIPR absolute and relative potencies
- Weight loss in DIO mice benchmarks favorably versus tirzepatide
- Weight loss after single dose of PN-458o and sc benchmarks favorably versus tirzepatide in normal monkeys
- PK profiles in dogs and monkeys support once-daily (PN-458o) and once weekly dosing (PN-458sc)
- IND-enabling studies underway

Building a Portfolio of ORAL and Injectable Anti-Obesity Agents

PN-458: A Dual GLP-1R/GIPR Oral & SC Agonist

- **Tirzepatide** (Zepbound®): The only approved dual GLP-1R/GIPR therapy
 - Best-in-class: Body weight loss ~20.2%¹
 - Best-selling anti-obesity drug
 - **Injectable**
- **PN-458**: Dual GLP-1R/GIPR agonist
 - Optionality: **Oral** and SC
 - Pre-clinical PoC
 - Ph1 initiation Q4 '26
- **Amylin**:
 - Mono- and poly-agonists
 - Oral and SC

**ORAL Dual-Agonist
Once-daily Dosing**

PN-458o








**Injectable Dual-Agonist
Once-weekly Dosing**

PN-458sc

What's Next?

Major Upcoming Catalysts in 2026-2027

Expected Clinical Trial Initiations, Data Readouts, and Development Candidate Nominations

	1H 2026	2H 2026	2027
 Rusfertide	❖ NDA submitted	❖ Opt-in/Opt-out decision	❖ US approval/launch for PV ★
 Icotrokinra	❖ Psoriasis NDA & MAA ❖ Ph3 PsA 1 & 2; UC & CD ongoing	❖ Ph3 ICONIC-PsA 1 Primary Completion	★ US approval/launch for Psoriasis
 PN-881*	Oral IL-17 antagonist ❖ Ph1 ongoing	❖ Ph1 Topline ❖ PK/PD data	❖ Ph2 PsO Initiation
 PN-477sc* PN-477o*	Anti-obesity DCs ❖ IND-enabling studies	❖ PN-477sc Ph1 initiation	❖ PN-477sc Ph1 clinical PoC ❖ PN-477o Ph1 initiation
 PN-8047*	❖ Oral Hepcidin DC		❖ Ph1 initiation
 PN-458sc* PN-458o*	Dual GLP/GIP DCs ❖ PN-458sc ❖ PN-458o		❖ Ph1 initiation
 Discovery*	❖ AmylinR-based mono & poly-agonists ❖ Oral IL-4R α antagonist		

Thank you