

June 12, 2026

Pioneering Precision Peptides for Endocrine and Metabolic Diseases

ENDO 2026





Introduction

Kent Hawryluk

MBX President & CEO

Disclaimer

This presentation includes forward looking statements. All statements other than statements of historical facts contained in this presentation, including statements regarding our product candidates, preclinical study and/or clinical trial timelines, including projected data announcements, future results of operations and financial position, strategy and plans, industry environment, potential growth opportunities, and our expectations for future operations, are forward looking statements. The words “believe,” “may,” “will,” “estimate,” “continue,” “anticipate,” “design,” “expect,” “could,” “plan,” “potential,” “predict,” “seek,” “should,” “would,” or the negative version of these words and similar expressions are intended to identify forward looking statements.

We have based these forward-looking statements on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, strategy, short- and long-term business operations and objectives, and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including but not limited to, our ability to develop and advance our programs and product candidates, our regulatory approvals and filings, and other risks, uncertainties and assumptions identified in our filings with the Securities and Exchange Commission.

Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time, and it is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. You should not rely upon forward looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. Moreover, except as required by law, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations, unless required by law.

This presentation contains estimates and other information concerning our industry, our business and the markets for our product candidates. Information that is based on estimates, market research or similar methodologies, including prevalence studies which are extrapolated to broader populations, is inherently subject to uncertainties, and actual events or circumstances may differ materially from events and circumstances that are assumed in this information. Unless otherwise expressly stated, we obtained this industry, business, market and other data from our own internal estimates and research as well as from reports, research surveys, studies and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources. Industry publications and surveys generally state that the information contained therein has been obtained from sources believed to be reliable.

Although we believe the industry and market data to be reliable as of the date of this presentation, this information could prove to be inaccurate. Industry and market data could be wrong because of the method by which sources obtained their data and because information cannot always be verified with complete certainty due to the limits on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties. While we are responsible for the accuracy of such information and believe our internal company research as to such matters is reliable and the market definitions are appropriate, neither such research nor these definitions have been verified by any independent source.

Our Mission

Transforming the Lives of People Impacted by Endocrine and Metabolic Diseases through Precision Peptides



MBX ENDO 2026 Canvuparatide 12-week Avail™ & OLE Update

1

Welcome/Introductions

Kent Hawryluk, MBX
President & CEO

2

MBX Canvuparatide Overview

Richard DiMarchi, Ph.D.,
Distinguished Professor of
Chemistry at Indiana
University, MBX Co-founder

3

Market Landscape & Opportunity

Michael T. Collins, M.D.
Endocrinologist
Special Volunteer and Senior
Clinical Advisor, National
Institutes of Health

4

Canvuparatide 1-year OLE Results

Sam Azoulay, M.D.,
MBX Chief Medical Officer

5

Conclusion/Q&A

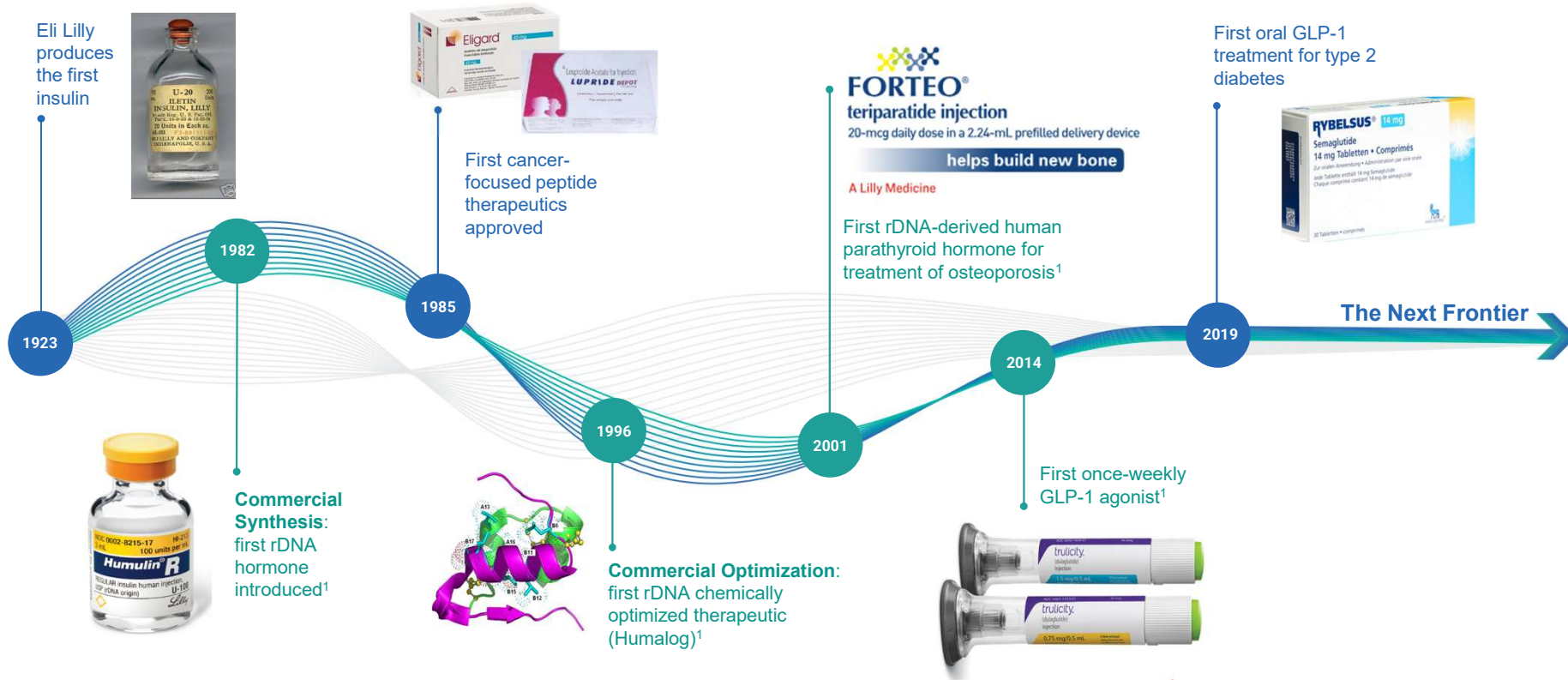
Kent Hawryluk



MBX Proprietary PEP™ Platform

Richard DiMarchi, PhD
MBX Scientific Co-Founder
Distinguished Professor of
Chemistry and Gill Chair in
Biomolecular Sciences at Indiana
University

MBX: Building on a Century of Progress in Peptide-Based Drugs



¹Contributions made by MBX scientific founder, Dr. Richard DiMarchi

rDNA, recombinant DNA.

Clinically Validated Precision Endocrine Peptide (PEP™) Platform

Created by MBX and Scientific Co-Founder Richard DiMarchi, PhD



INNOVATIVE PEPTIDE DESIGN

With a goal to optimize:

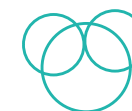
- Multiple mechanisms of action within a single peptide
- Increased potency
- Enhanced physical properties, including stability and solubility



PROGRAMMABLE PRODRUG

Designed to provide:

- Gradual, controlled release of active drug
- Slow rise to maximum exposure
- Flattened exposure



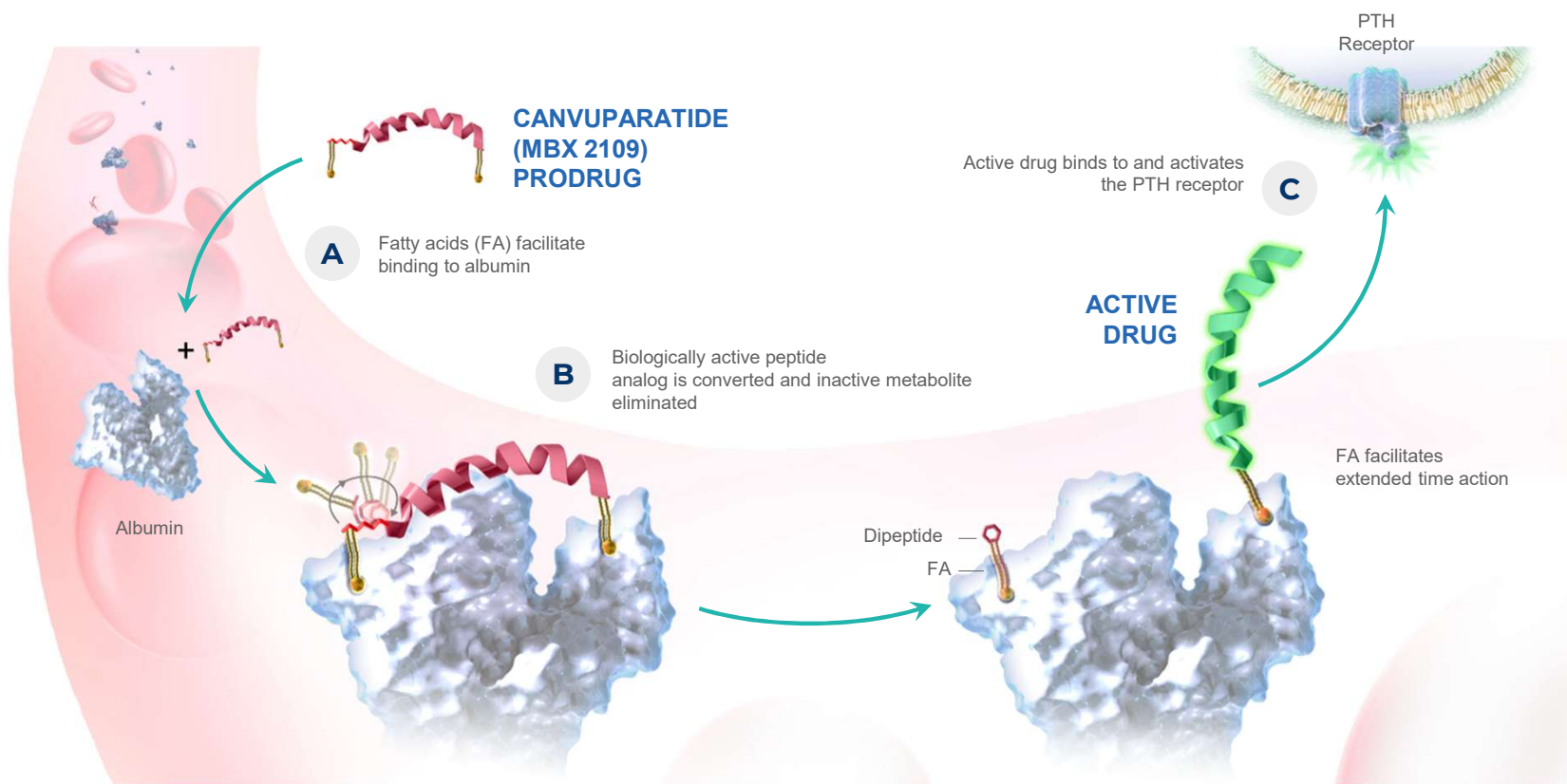
FATTY ACYLATION

With a goal to optimize:

- Longer time action
- More convenient dosing

Combining PEP technologies to deliver differentiated and best-in-class medicines for patients

Canvuparatide: Prodrug Chemically Converts to Active Drug at a Precisely Controlled Rate Under Physiologic Conditions



PTH, parathyroid hormone.



Hypoparathyroidism Market Landscape

10

Michael T. Collins, M.D.

Endocrinologist

Special Volunteer and Senior
Clinical Advisor at the National
Institutes of Health

Hypoparathyroidism (HP) is a Serious Chronic Condition

Hypoparathyroidism occurs when the parathyroid glands produce too little parathyroid hormone (PTH), resulting in a spectrum of findings

Symptoms and Presentation	Hypocalcemia , cramping, paresthesia, tetany, seizures, arrhythmias, kidney disease, neurocognitive deficits (“brain fog”), depression, increase in major adverse cardiac events		
Onset and Etiology	Typical Onset 40-65 years old	Main cause Post-surgical complications of neck procedures (75%) ¹	Other causes Genetic disorders, autoimmune disease, radiation therapy, idiopathic
Prognosis	Impaired QoL Due to persistence of mild symptoms (e.g., hypocalcemia, brain fog, fatigue)		Impaired Renal Function Due to hypercalciuria, nephrocalcinosis, nephrolithiasis

Chronic HP defined as symptoms persisting ≥12 months

¹Powers. J Bone Miner Res. 2013 found 73% post-surgical and Clarke. J Clin Endocrinol Metab. 2016 found 78%. Sources: Abate. Front Endocrinol (Lausanne). 2017; Bilezikian. JCEM. 2020; Brandi. JCEM. 2016; Cipriani. J Endocr. Soc. 2021; Clarke. J Clin Endocrinol Metab. 2016; Khan. J Bone Miner Res. 2022; Mannstadt. Nat Rev Dis Primers. 2017; Powers. J Bone Miner Res. 2013; Ahn SH et al, Long-Term Morbidity after Postoperative Hypoparathyroidism in Thyroid Cancer Patients: A Nationwide Population-Based Cohort Study; Thyroid 2026;36(3):320-329; UpToDate; Advocacy Groups; Clearview Analysis.

Chronic HP Affects Thousands of Patients Worldwide

Prevalence

>250K
in US and EU¹

+

Annual Incidence

>7K
in US and EU^{2,3}

Majority (~75%)
of patients are
post-surgical

Majority post-
surgical patients
**diagnosed within
months** of surgery

Large population with increased healthcare
utilization in need of effective treatments⁴

Source: ¹Mannstadt et al, Nat Rev Dis Primers, 2017; Powers et al, *JBMR.*, 2013; Vadiveloo et al, *JBMR* 2017; Cianferotti et al, *Calcif Tissue Int*, 2018; Swartling et al, *J Clin Endocrinol Metab*, 2022; Underbjerg et al, *JBMR*, 2013; Soibelman et al, *Clin Otolaryngol*, 2025; ClearView Analysis. ²Powers et al, *JBMR*, 2013. ³Internal estimates ⁴Chen K, Krasner A, Li S, et al. Clinical burden and healthcare resource utilization among patients with chronic hypoparathyroidism, a retrospective cohort study. *Journal of Medical Economics*. 2019;22(11):1145-1153. PMID: 31124721

Patients with Chronic HP have a Significant Disease Burden

Symptoms Can Be Debilitating



BRAIN FOG



CHRONIC FATIGUE

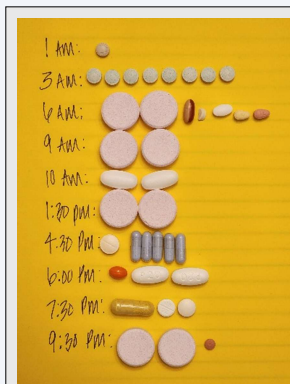


SEIZURES



TETANY

Taking Daily Supplements Is Highly Disruptive



From Chronic HP patient

Pill Burden

(conventional therapy)

- 10-30+ pills a day
- Every few hours
- Missed dose anxiety

“If I go without my meds, I will be dead in days. If I skip/miss calcium, I will be in the ED in 12 hours.” - Chronic HP Patient

“I no longer have the luxury of sleeping through the night.” - Chronic HP Patient

Supplements Do Not Restore Physiologic Stability

Treatment frequently causes hypercalciuria leading to renal calcification nephrocalcinosis, nephrolithiasis and chronic kidney disease

Yorvipath® Uptake Validates Need and Acceptance of Injectable PTH Replacement Therapy; But Significant Gaps Remain



Daily Injection Fatigue

Daily injections lead to injection fatigue and the risk of not staying on therapy



Anxiety About Missing Daily Dose

Patients worry about disruptions leading to missed injections



Continued Symptoms

Many patients continue to experience symptoms while on treatment

Canvuparatide Demonstrated Positive Results in Phase 2 Phase 3 Initiating in Q3'26

Phase 2



Demonstrated **compelling efficacy** across comorbidities related to PTH deficiency

Confirmed **tolerability** profile

Determined **starting dose** for Ph3 study

Phase 3

Kickoff Q3'26

Clear registrational path with endpoints that matter to **physicians** and **payers**



Normalization of serum calcium, and **independence** from active vitamin D and therapeutic doses of calcium

Normalization of **urine calcium**

Patient reported outcomes

Once-Weekly Canvuparatide has the Potential to be the New Standard of Care for Patients with Chronic HP

Canvuparatide Potential (to be proven in Ph3 study)



First once-weekly PTH replacement therapy



Restore normal serum calcium and phosphate



Protect kidneys from long-term damage



Restore bone turnover



Free patients from daily disease management



In market research...



HCPs

PTH-Naïve
Patients

HCPs would make canvuparatide the **preferred** choice

PTH-Treated
Patients

HCPs would **switch** large **majority** over time



Patients

Most patients would choose once-weekly canvuparatide

If week-over-week consistency is born out: eliminate the **rollercoaster** of crashes and **debilitating** symptoms

Source: MBX market research May 2026

In Summary....

- 1 Chronic HP is a damaging disease affecting **>250K** patients across US and EU
- 2 Yorvipath® uptake **validates** need/acceptance of PTH replacement; **significant gaps** remain
- 3 **Once-weekly** canvuparatide has the potential to set a **new standard** for treating chronic HP
- 4 The **majority** of HCPs and patients would **choose once-weekly first**

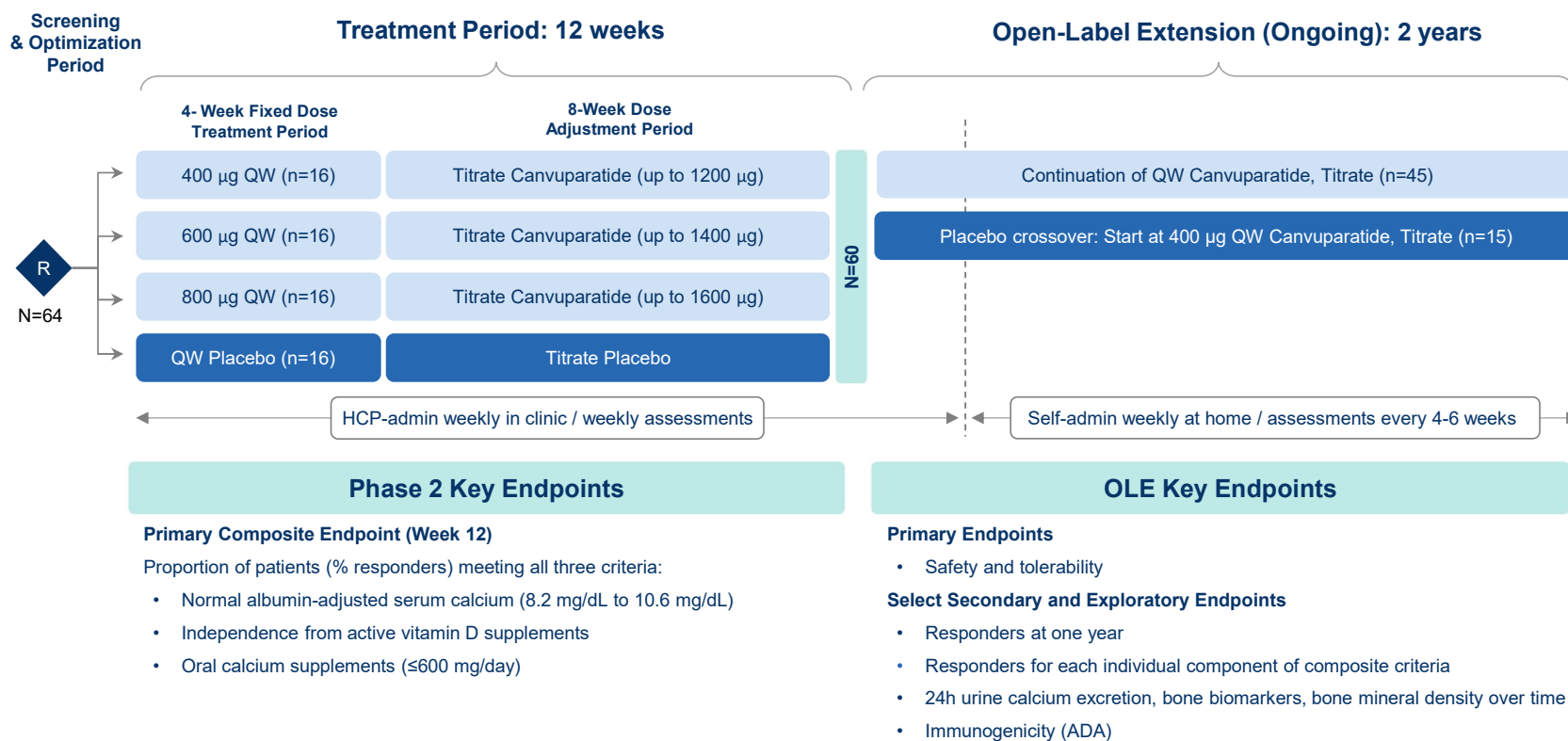


Canvuparatide One-Year OLE Results

Sam Azoulay, M.D.
MBX Chief Medical Officer

Phase 2 and OLE Study: Trial Design and Endpoints

12-Week Trial and 2-Year Open-Label Extension Study Design



ADA, anti-drug antibodies; OLE, open-label extension; QW, once weekly.
 ClinicalTrials.gov Identifier: NCT06465108, NCT06531941

Baseline Characteristics: Representative of HP Population and Well Balanced

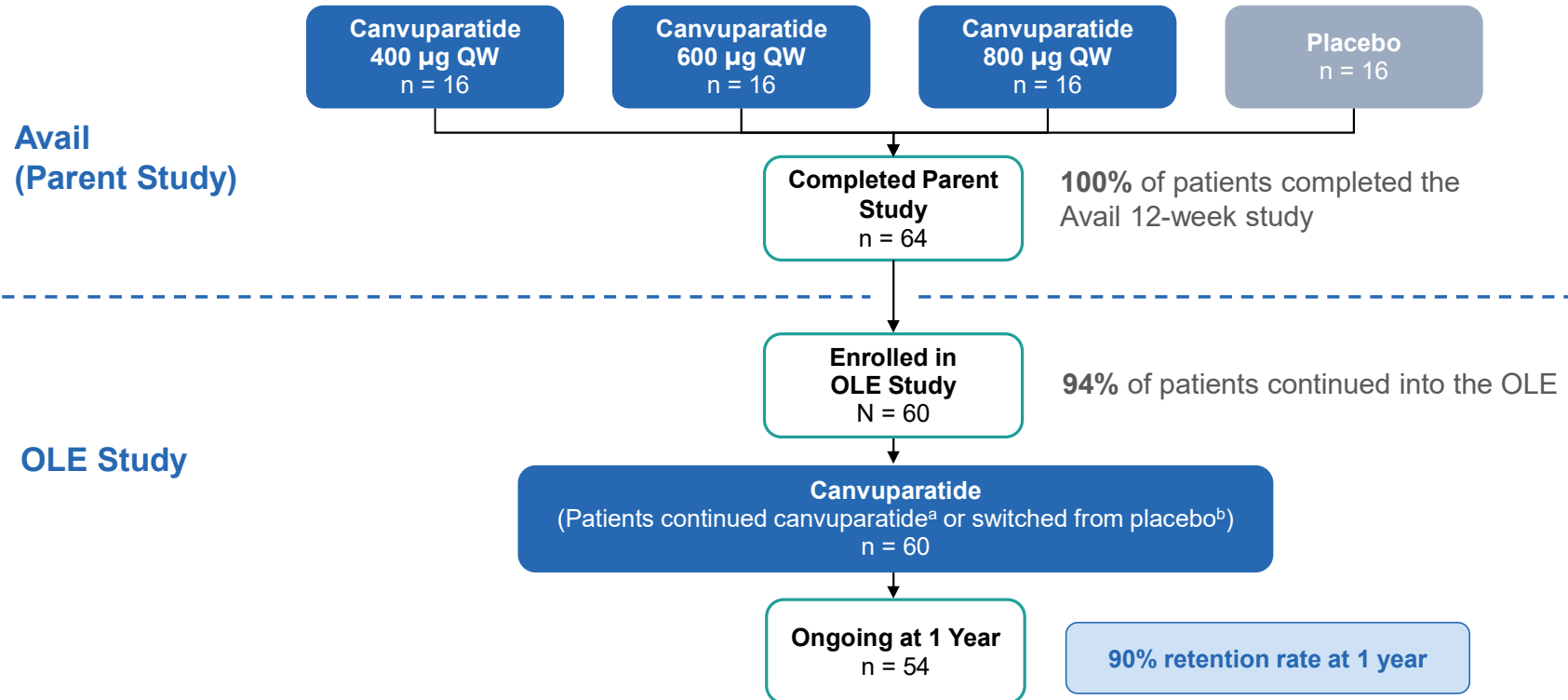
Characteristics	Canvuparatide (n = 48)	Placebo (n = 16)
Age, years, median (range)	49.0 (23–72)	44.5 (19–63)
Female, n (%)	41 (85.4)	15 (93.8)
Race, n (%)		
White	43 (89.6)	13 (81.3)
Black or African American	4 (8.3)	2 (12.5)
Other	1 (2.1)	1 (6.3)
Hispanic or Latino, n (%)	29 (60.4)	9 (56.3)
BMI, kg/m ² , mean (SD)	31.3 (6.3)	30.2 (5.4)
Duration of HP, years, mean (SD)	10.5 (9.0)	8.9 (4.8)

Characteristics	Canvuparatide (n = 48)	Placebo (n = 16)
Etiology of HP, n (%)		
Postsurgical chronic	43 (89.6)	14 (87.5)
Nonsurgical ^a	5 (10.4)	2 (12.5)
Calcium dose, mg/day, mean (SD)	3208.0 (2872.3)	2455.3 (918.1)
Vitamin D dose, µg/day, mean (SD)	0.94 (0.52)	0.84 (0.39)
Serum PTH, ng/L, mean (SD)	10.2 (5.7)	12.1 (12.6)
Serum AdjCa, mg/dL, mean (SD)	9.3 (0.7)	9.0 (1.0) ^b
Serum phosphorus, mg/dL, mean (SD)	4.6 (0.8)	4.6 (0.8)
Urine calcium, ≥ 250 mg/day, n (%)	22 (45.8)	7 (43.8)

AdjCa, albumin-adjusted calcium; BMI, body mass index; HP, hypoparathyroidism; PTH, parathyroid hormone.

^aNonsurgical etiologies included idiopathic (canvuparatide, 6.3%; placebo, 12.5%), autoimmune (canvuparatide, 2.1%; placebo, 0%), and genetic (canvuparatide, 2.1%; placebo, 0%); ^bn = 14.

Patient Disposition



^aPatients randomized to canvuparatide in the parent study continued on the last dose they received in the parent study if they were able to be withdrawn from active vitamin D and calcium; if not, their dose was adjusted in accordance with the titration algorithm. ^bPatients randomized to placebo in the parent study were switched to canvuparatide 400 µg QW in the OLE, with dose adjustments made to maintain serum calcium 8.2–10.6 mg/dL following the titration algorithm.

Primary Composite Endpoint and Components at 1 Year (OLE)

Parameter, n (%)	12-Week Study	1 Year (OLE)
	Canvuparatide (n = 48)	Canvuparatide ¹ (n = 54)
Proportion of Patients Meeting Response Criteria (Responders)	30 (63%) ^{2,3}	31 (57%) ³ (CI: 44-71%)
Proportion of patients meeting each component of responder criteria, n (%)		
Independence from active vitamin D	47 (98%)	46 (85%)
Independence from oral calcium (≤ 600 mg/day)	36 (75%)	39 (72%)
Serum AdjCa within normal range (8.2–10.6 mg/dL)	39 (81%)	41 (75%)

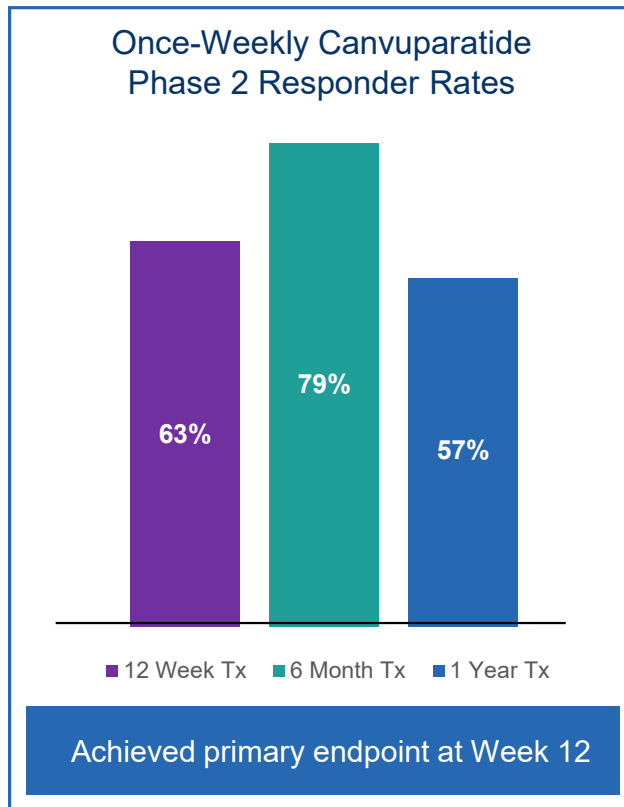
1. The canvuparatide cohort at 1 year includes patients initially randomized to canvuparatide (n = 39) or placebo (n = 15) for 12 weeks in the parent study.

2. P < .05 vs placebo

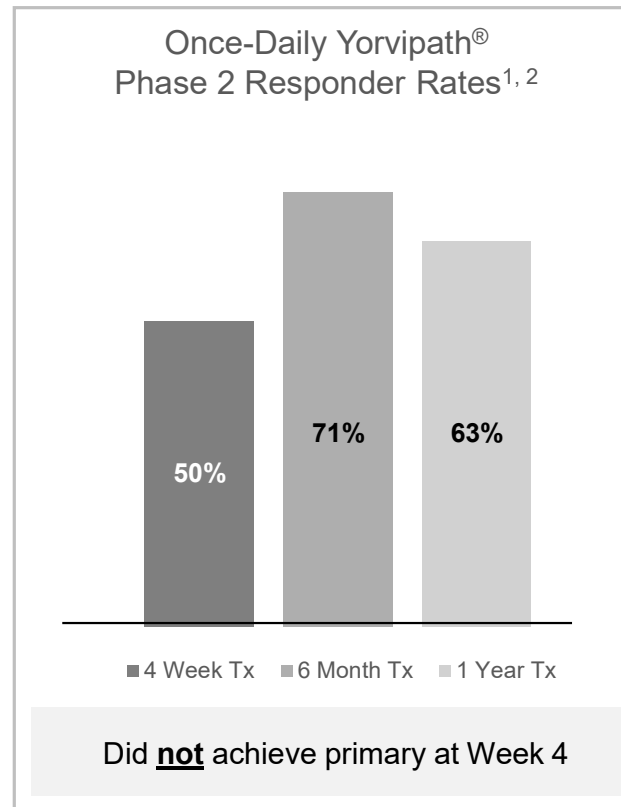
3. Zero contribution from rescue therapy (PRN) in the last week of the treatment period

Once-Weekly Canvuparatide Demonstrated Competitive Responder Rates in the Phase 2 Avail Trial and OLE

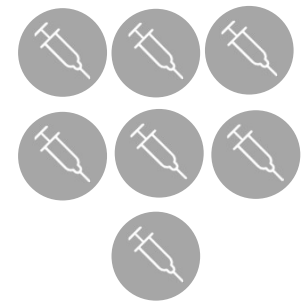
1/week



Once-Daily Yorvipath® Phase 2 Responder Rates^{1, 2}



7/week



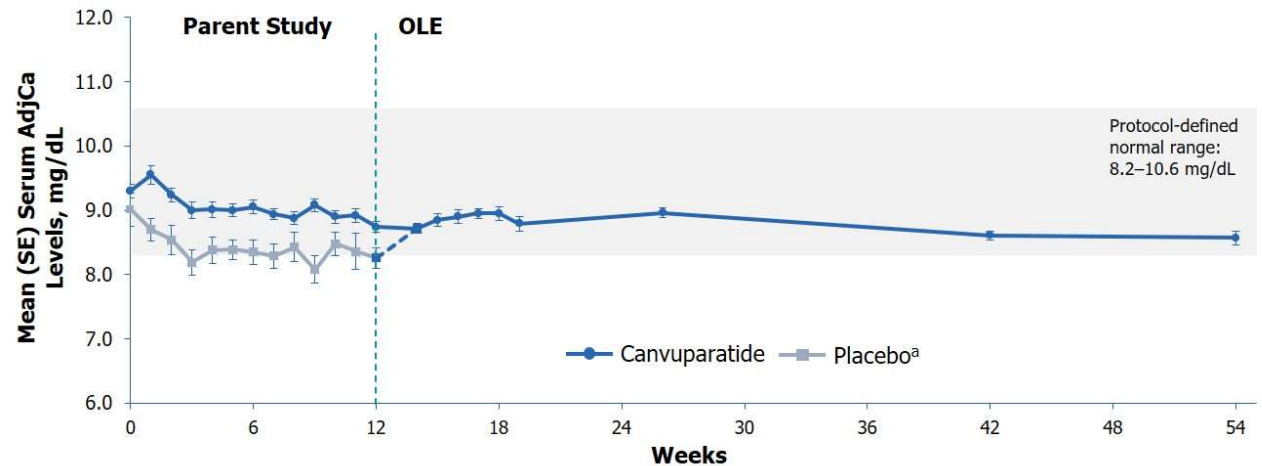
Tx, treatment; Data sourced from (1) "PaTH Forward: A Randomized, Double-Blind, Placebo-Controlled Phase 2 Trial of TransCon PTH in Adult Hypoparathyroidism", <https://pmc.ncbi.nlm.nih.gov/articles/PMC8684498/> and (2) Center for Drug Evaluation and Research, NDA/BLA Multi-disciplinary Review and Evaluation NDA 216490, Yorvipath (Palopegteriparatide), p73. Note: These data are derived from different clinical trials at different points in time, with differences in trial design, including endpoints, and patient populations. As a result, cross-trial comparisons cannot be made, it is only provided for illustrative purposes, and no head-to-head clinical trials have been conducted.

Pharmacokinetics and Serum Calcium Profile Continue to Support Once-Weekly Dosing

Phase 2 Pharmacokinetics (Drug Exposure)

PK in chronic HP patients demonstrated consistent concentration of canvuparatide active drug with a T_{max} of 2-3 days, minimal fluctuation and a **peak-to-trough ratio of ~1.3 over a week**

Phase 2 Pharmacodynamics (Serum AdjCa Over Time*)

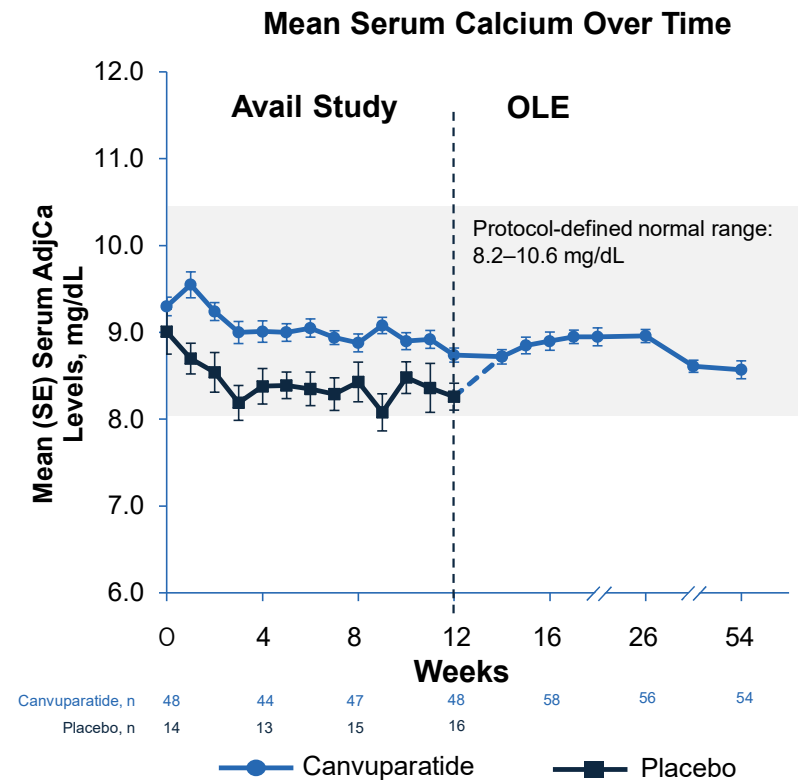
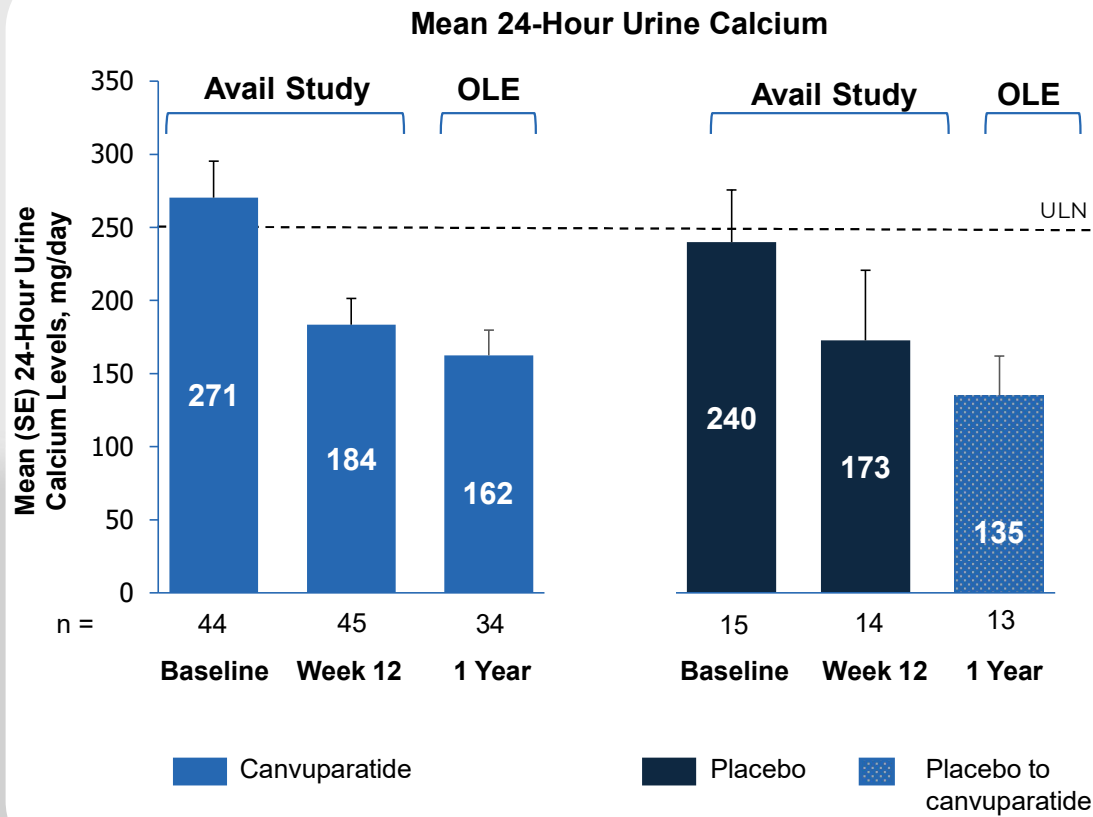


Mean peak-to-trough serum calcium difference was 0.59 [0.12] mg/dL, consistent with stable calcium control

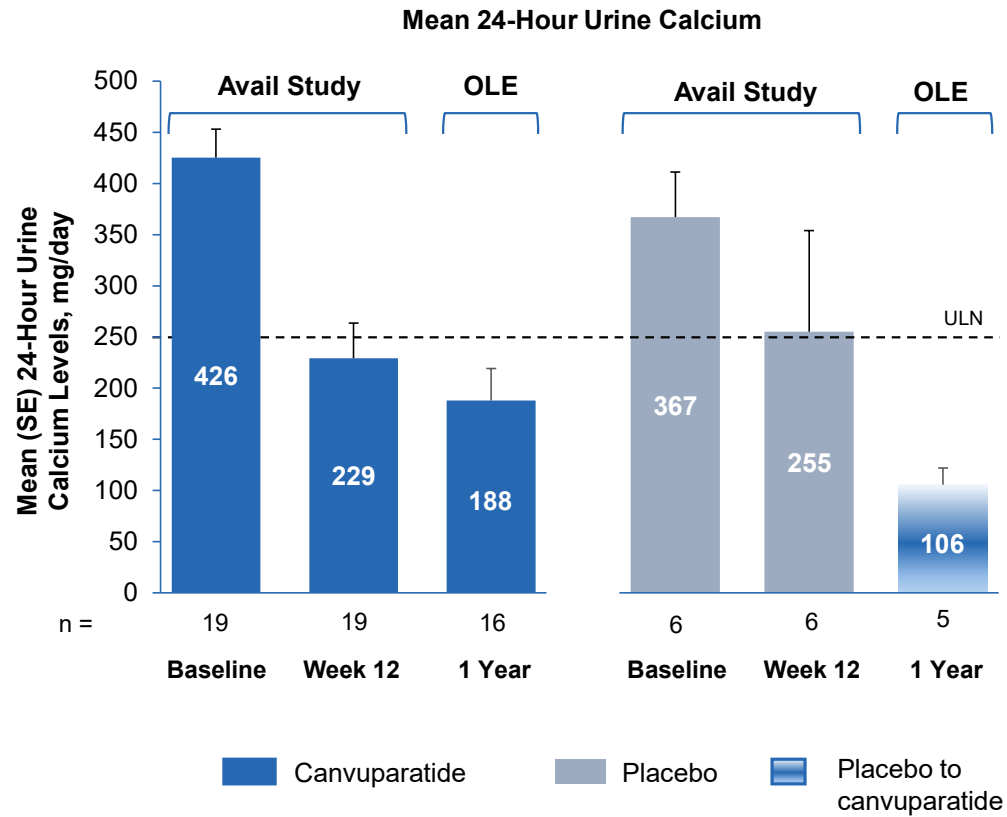
*As assessed at trough concentration.

^aStarting after the baseline of the OLE (at week 12 overall), patients in the placebo group were switched to canvuparatide.

Once-Weekly Canvuparatide Reduced 24h Urine Calcium While Maintaining Stable Serum Calcium Through 1 Year



In Patients With Elevated Baseline Urine Calcium, Urine Calcium Continued to Decrease Through 1 Year

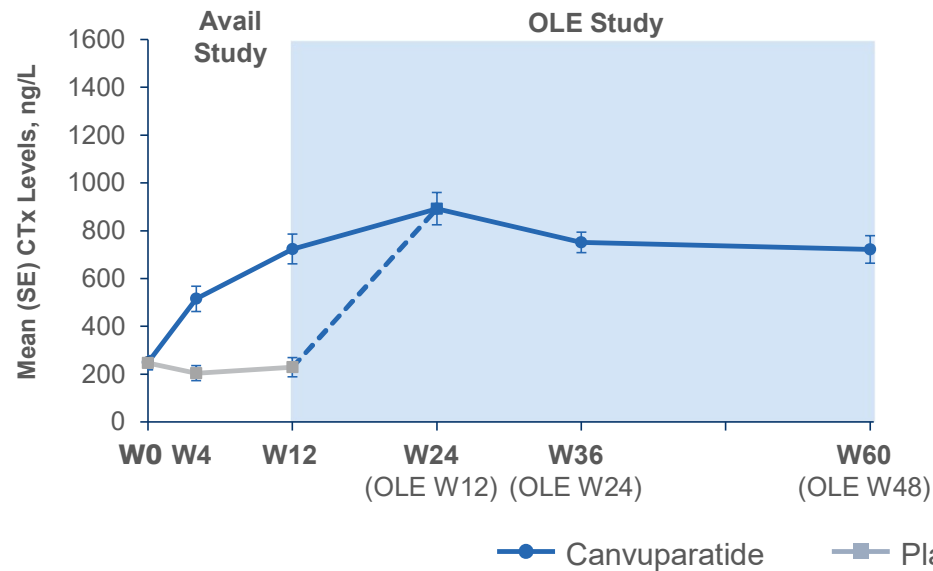


Once-Weekly Canvuparatide Demonstrated Expected Effects of PTH in the Kidney

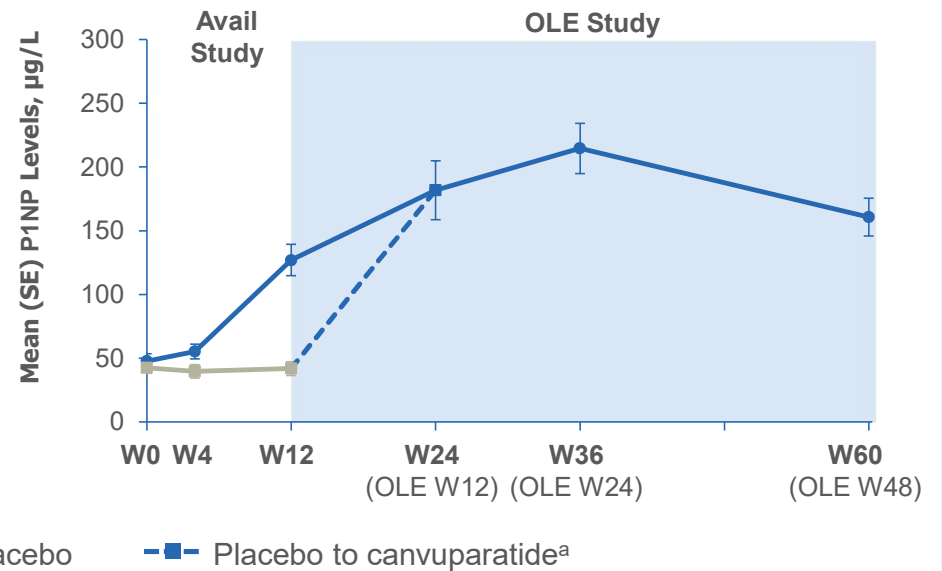
Parameter, Mean (SE)	Change from Baseline at 1 Year (OLE) ^a
	Canvuparatide (n = 54)
Phosphate, mg/dL	-0.4 (0.1)
Calcium-phosphate product, mg ² /dL ²	-5.9 (0.8) ^b
1,25-Dihydroxyvitamin D3, ng/L	3.5 (3.6)
Estimated glomerular filtration rate, mL/min/1.73m ²	5.3 (2.1)

Canvuparatide Restored Bone Metabolism

C-Terminal Telopeptide of Type 1 Collagen (CTx)



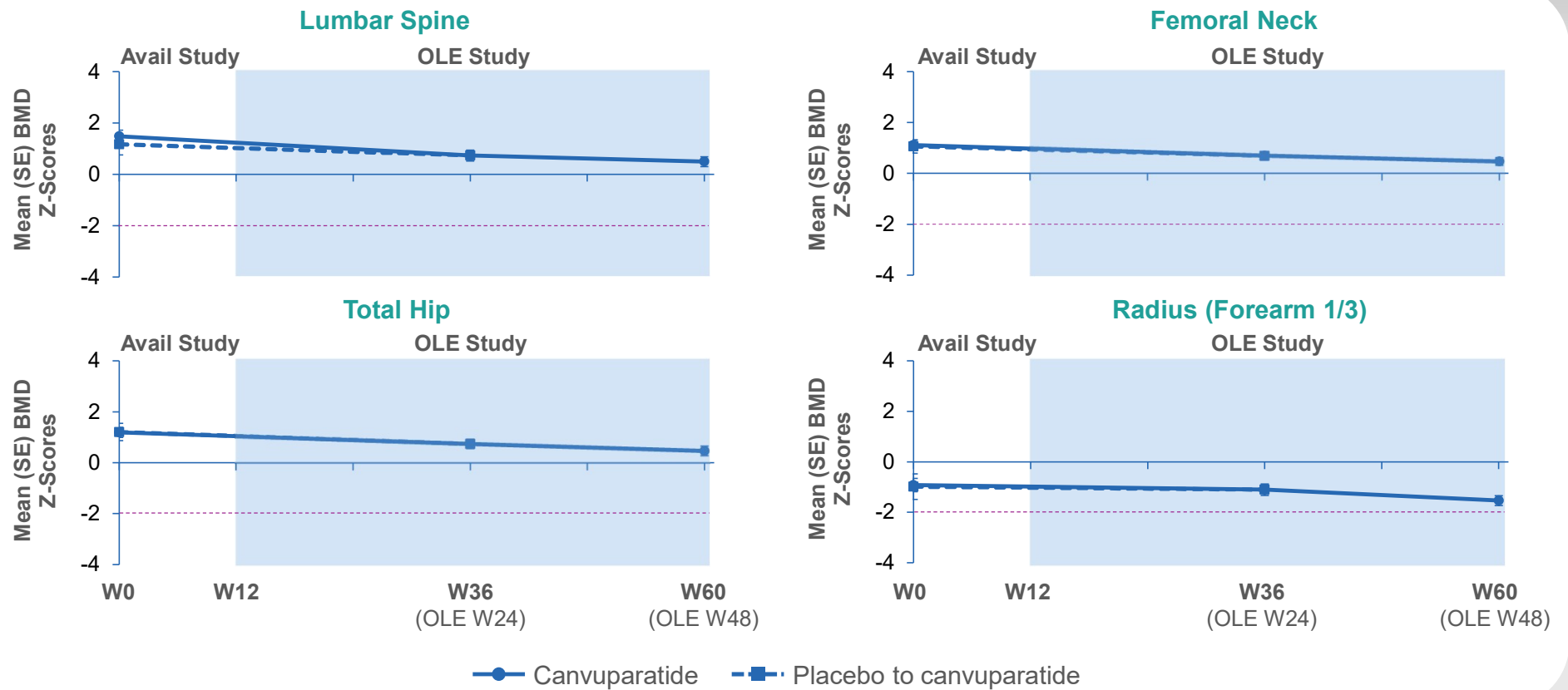
Procollagen Type 1 N-Terminal Propeptide (P1NP)



Reference ranges are: CTx (female high, 1008 ng/L; male high, 854 ng/L), and P1NP (female, 14.3–97.0 µg/mL; male, 13.3–79.7 U/L).

^aDuring the OLE (starting after Week 12), patients in the placebo group received canvuparatide.

BMD Changes Were Consistent with Restored Bone Metabolism and Remained Within the Normal Range



Immunogenicity to Canvuparatide Was Minimal

Patients With Treatment-Induced ADAs, n (%)	Canvuparatide	
	ADA to Canvuparatide	ADA to Active Peptide
Week 12 (Avail parent trial)	0	0
Week 60 (OLE week 48)	1/59 (1.7)*	0

OLE: Treatment Emergent Adverse Events and Adverse Events of Special Interest

TEAE, n (%)	Canvuparatide (n = 60)
TEAE	48 (80.0)
Mild	22 (36.7)
Moderate	23 (38.3)
Severe	3 (5.0)
Treatment-related TEAE	23 (38.3)
SAE	5 (8.3)
Treatment-related SAEs	0
TEAE leading to discontinuation	3 (5.0)
Deaths	0
AESI (>5% patients), n (%)	Canvuparatide (n = 60)
Hypocalcemia ^a	12 (20.0)
Hypercalcemia ^b	7 (11.7)
All injection site reactions	6 (10.0)

SAE, serious treatment-emergent adverse events; TEAE, treatment-emergent adverse event.

^aSymptomatic of greater intensity or duration than expected

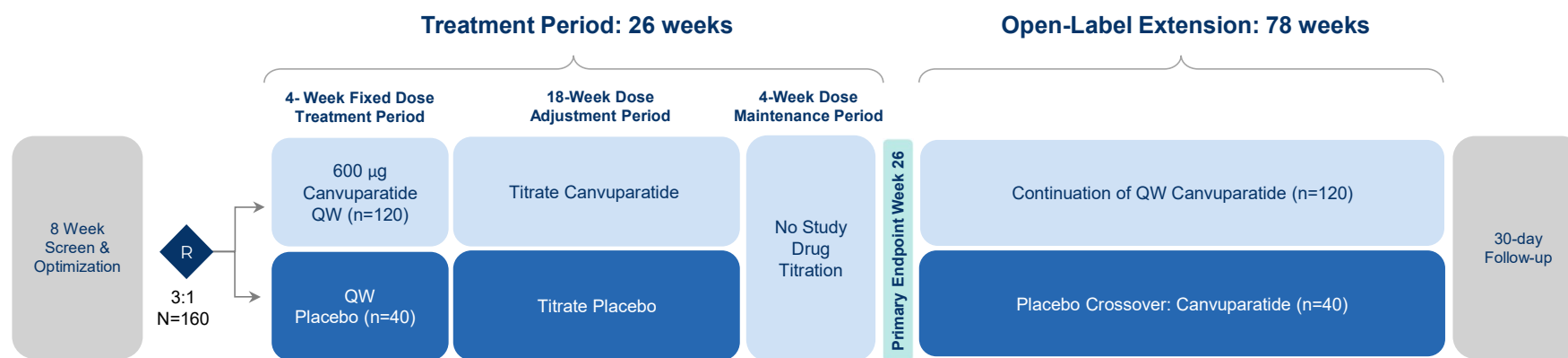
^bSymptomatic or serum calcium level >11.0 mg/dL

One-Year Data Demonstrate Sustained Benefit of Once-Weekly Canvuparatide as a Potential PTH Replacement Therapy in Chronic HP

- Results consistent with restoration of systemic PTH activity through serum calcium normalization, reduction of urine calcium excretion, restoration of bone metabolism and increase of eGFR
- Responder rate of 57% at one year in OLE comparable to Phase 2 Avail™ rate of 63% at 12 weeks
- High retention rate with 90% of patients entering the OLE remaining in the study at one year
- Generally well tolerated with no new safety signals during the OLE
- Pharmacokinetics support once-weekly dosing, with low peak-to-trough ratio and stable exposure
- Phase 3 pivotal trial remains on track to initiate in Q3 2026

Phase 3 Trial Design and Endpoints for Once-Weekly Canvuparatide

26-Week Double-blind Placebo-Controlled Trial followed by a 78-Week Open-Label Extension



Phase 3 Trial Endpoints

Primary Composite Endpoint (Week 26)

Proportion of patients (% responders) meeting all four criteria:

- Normal albumin-adjusted serum calcium (8.3 mg/dL to 10.6 mg/dL)
- Independence from active vitamin D
- Calcium supplements (≤ 600 mg/day)
- Stable with no increase in canvuparatide dose during last 4 weeks

Key Secondary Endpoints

- Proportion of patients (% responders) with elevated 24-hour urine calcium who normalize urine calcium excretion while maintaining normal albumin-adjusted serum calcium
- Patient-reported outcomes (PROs)

QW: once weekly

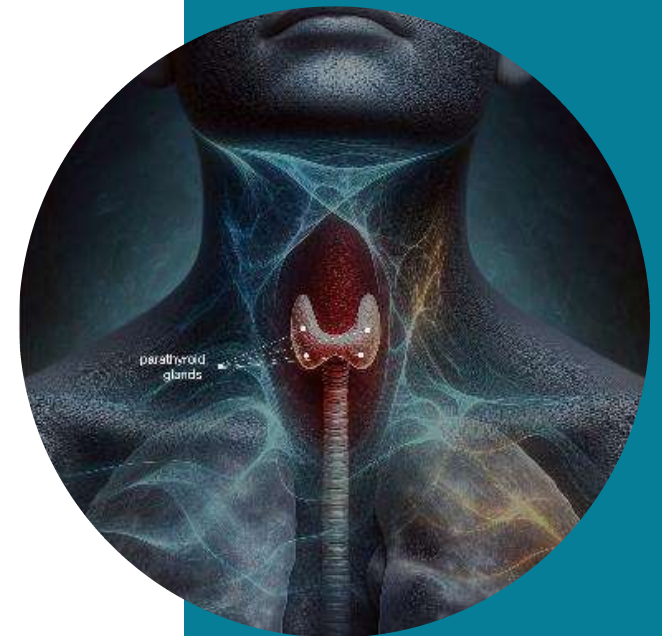


Conclusion

Kent Hawryluk
MBX President & CEO

Once-Weekly Canvuparatide: Paving the Way for a Potential New Standard of Care in Chronic HP

- One-year OLE data support canvuparatide as a once-weekly PTH replacement therapy
- Market research indicates majority of HCPs and patients would choose once weekly first
- Phase 3 trial preparations underway, initiation anticipated in Q3 2026



MBX: Catalyst-Rich Year

Program	Milestone	Anticipated Timing
Canvuparatide (MBX 2109)	End-of-Phase 2 FDA Meeting	<input checked="" type="checkbox"/>
	Avail™ Phase 2 presentation and one-year OLE data	ENDO 2026
	Phase 3: Initiation	Q3 2026
MBX 4291 (GLP-1/GIP)	Phase 1: 12-week MAD results	Q4 2026
MBX 5765 (amycretin)	Nominate development candidate	<input checked="" type="checkbox"/>
MBX 6XXX (GLP-1/GIP/GCGR)	Nominate development candidate	Q3 2026

\$440 million in cash expected to provide runway into 2029¹

Our Mission

Transforming the Lives of People Impacted by Endocrine and Metabolic Diseases through Precision Peptides

