

# 5-Year Data from the Phase 2 PaTH Forward Trial of TransCon PTH in Adults with Hypoparathyroidism

June 2026

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# PTH Therapy for Hypoparathyroidism

- An intact PTH axis maintains normal serum and urine calcium and phosphate homeostasis<sup>1,2,3</sup>
- PTH is the primary regulator of calcium/phosphate balance, acting directly on bone and kidney, and indirectly on the intestine<sup>4,5</sup>
- Conventional therapy for hypoparathyroidism (active vitamin D (calcitriol) and oral calcium) aims to alleviate hypocalcemic symptoms but fails to restore normal PTH physiology<sup>6</sup>
- PTH replacement therapy for hypoparathyroidism should provide PTH levels within the physiological range and restore downstream calcitriol, promoting independence from conventional therapy and normalizing:
  - Serum and urine calcium and phosphate
  - Skeletal health
  - Quality of life

PTH = parathyroid hormone

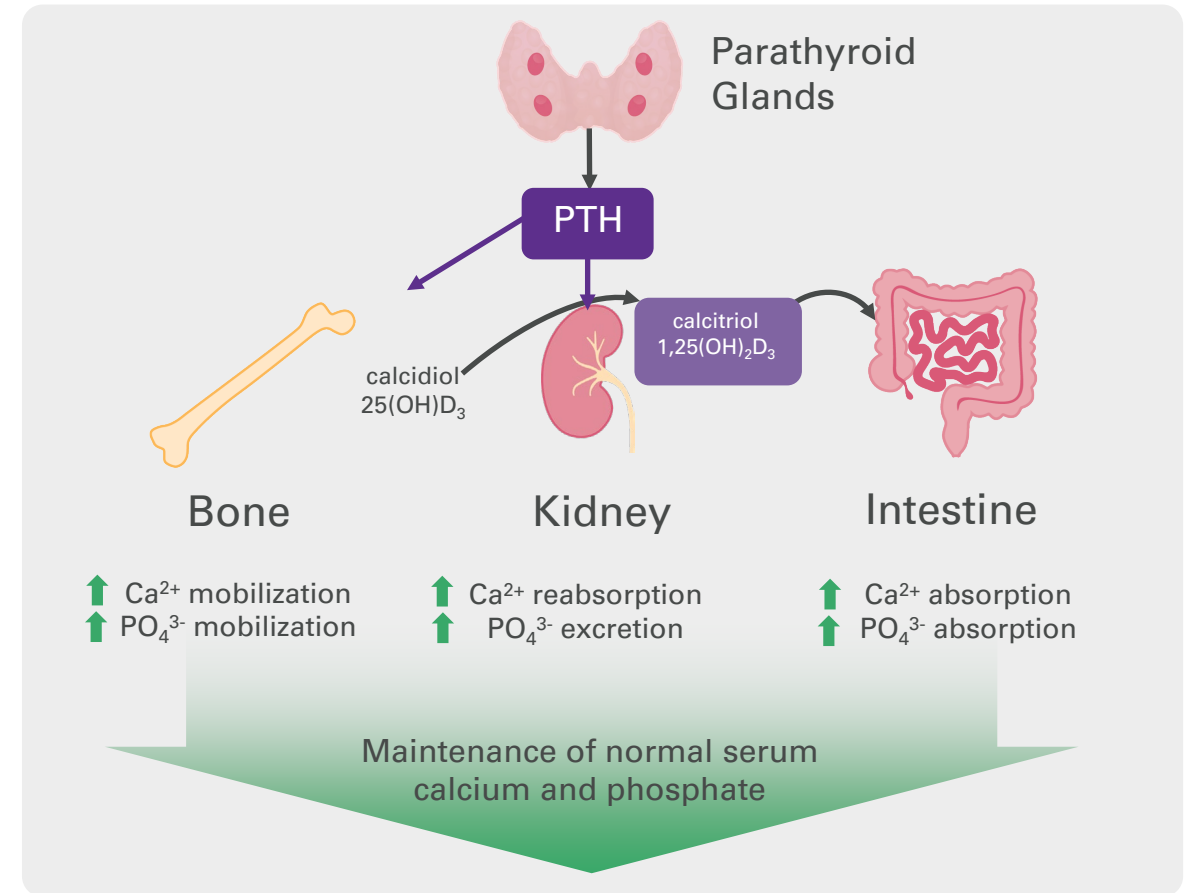
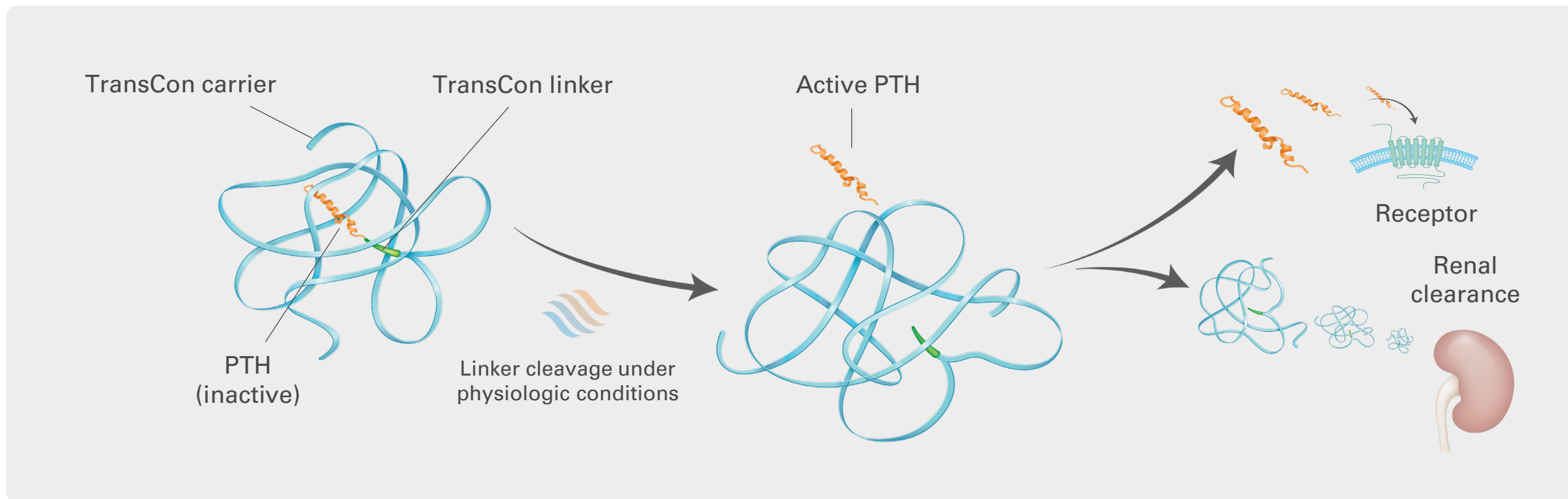


Figure adapted from Shoback D. *N Engl J Med.* 2008;359:391-403.<sup>7</sup>

1. Khan AA, et al. *J Bone Miner Res.* 2022;37:2568-2585. 2. Shoback DM, et al. *J Clin Endocrinol Metab.* 2016;101(6):2300-2312. 3. Bilezikian JP, et al. *J Clin Endocrinol Metab.* 2016;101(6):2313-2324. 4. Mannstadt M, et al. *Nat Rev Dis Primers.* 2017; 3:17055. 5. Brandi ML, et al. *J Clin Endocrinol Metab* 2016;101(6):2273-83. 6. Khan AA, et al. *Eur J Endocrinol.* 2019;180(3):R33-63. 7. Shoback D. *N Engl J Med.* 2008;359:391-403.

# TransCon<sup>®</sup> PTH (Palopegteriparatide) Design



- TransCon PTH is a prodrug of PTH (1-34), administered once daily, that provides active PTH within the physiological range for 24 hours per day<sup>1,2</sup>
- TransCon PTH has received regulatory approval in the US<sup>a</sup>, EU<sup>b</sup>, and other jurisdictions

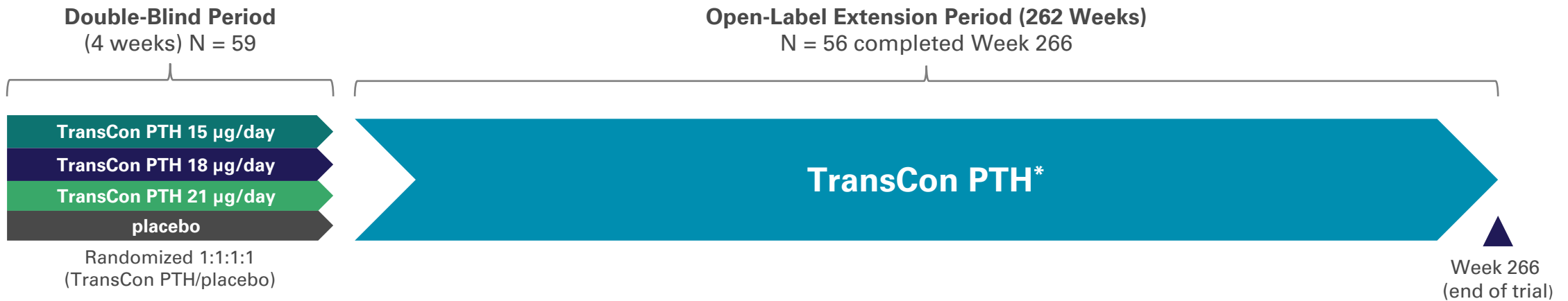
PTH = parathyroid hormone; TransCon = transient conjugation.

<sup>a</sup> Indicated for the treatment of hypoparathyroidism in adults. <sup>b</sup> Indicated for the treatment of adults with chronic hypoparathyroidism.

1. Karpf DB, et al. *J Bone Miner Res.* 2020;35(8):1430-1440. 2. Holten-Andersen L, et al. *J Bone Miner Res.* 2019;34(11):2075-2086.

# Phase 2 PaTH Forward Trial Design

**Randomized, double-blind, placebo-controlled trial followed by an open-label extension period in adults with chronic hypoparathyroidism**



## Select Open-Label Extension Endpoints

- Levels of serum calcium (normocalcemia)
- Independence from conventional therapy (defined as taking no active vitamin D and  $\leq 600$  mg/day elemental calcium)
- Levels of 24-hour urinary calcium
- Incidence of AEs, SAEs, TEAEs

## Skeletal Remodeling, Renal, and PRO Endpoints

- Bone turnover markers (P1NP and CTx)
- Bone mineral density by DXA of the lumbar spine L1-L4, femoral neck, total hip, and distal 1/3 radius
- Renal function as assessed by eGFR
- Hypoparathyroidism Patient Experience Scales (HPES) assessments evaluating symptoms and functional impacts

AE = adverse event; SAE = serious adverse event; TEAE = treatment-emergent adverse event; P1NP = procollagen type 1 N-terminal propeptide; CTx = C-terminal telopeptide of type 1 collagen; DXA = dual X-ray absorptiometry; eGFR = estimated glomerular filtration rate; PRO = patient-reported outcomes.\* TransCon PTH (palopegteriparatide) 6-60 ug/day and conventional therapy titrated per algorithm to maintain normocalcemia.

# Baseline Demographics & Disease Characteristics

	All participants (N = 59)
<b>Age (years), mean (SD)</b>	50 (12)
<b>Sex, n (%) female</b>	48 (81)
Postmenopausal, n (%)	17 (35)
<b>Race, n (%) White</b>	54 (92)
<b>Geographic region, n (%)</b>	
North America	38 (64)
Europe	21 (36)
<b>Cause of hypoparathyroidism, n (%)</b>	
Acquired from neck surgery	47 (80)
Autoimmune disease	1 (2)
Idiopathic disease	11 (19)
<b>Duration of hypoparathyroidism (years), median (range)</b>	9 (1 to 39)
<b>Conventional therapy, mean TDD</b>	
Calcium (mg)	1909
Calcitriol (µg) <sup>a</sup>	0.79
Alfacalcidol (µg) <sup>b</sup>	2.38

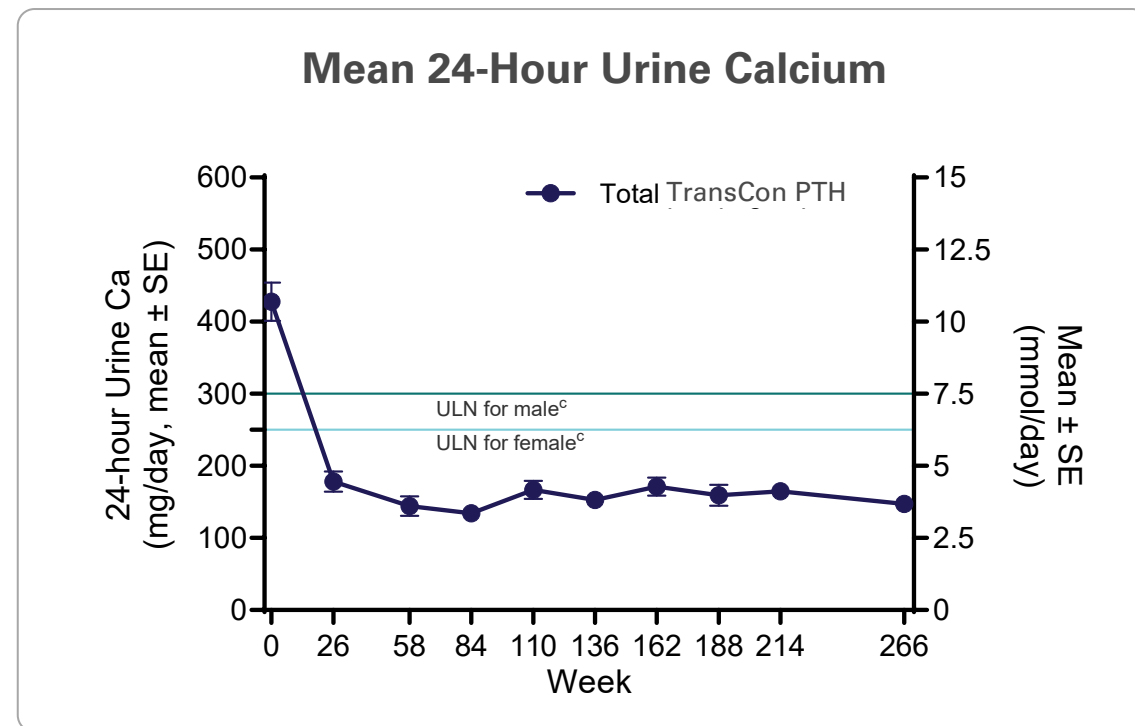
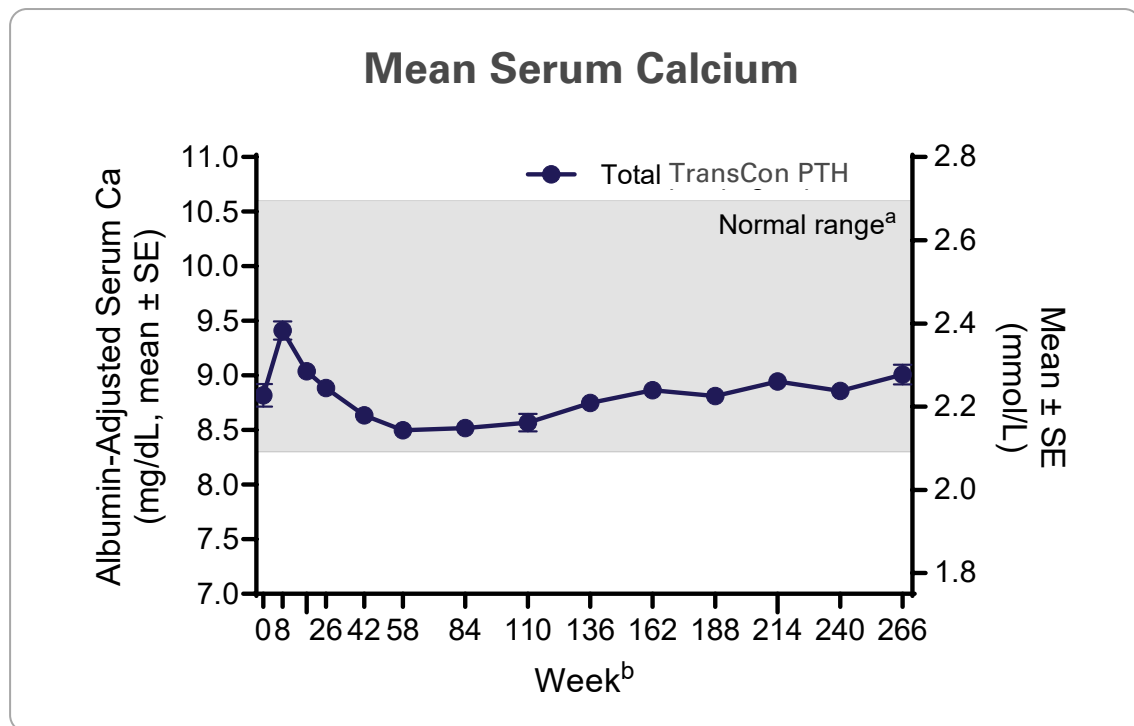
SD = standard deviation; TDD, total daily dose. Numbers may not add to 100% due to rounding.  
<sup>a</sup>n = 46 (78%) participants used calcitriol at baseline. <sup>b</sup>n = 13 (22%) participants used alfacalcidol at baseline.

# Sustained Independence from Conventional Therapy Observed in High Proportion of Participants

	Total TransCon PTH
<b>Number of participants continuing through Week 266</b>	56
Normal albumin-adjusted serum calcium, <sup>a</sup> n (%)	49 (88%)
Independence from active vitamin D, <sup>b</sup> n (%)	54 (96%)
Independence from therapeutic doses of calcium, <sup>b</sup> n (%)	53 (95%)

<sup>a</sup>Normal albumin-adjusted serum calcium levels defined as 8.3-10.6 mg/dL. <sup>b</sup>Independence defined as a standing dose of active vitamin D equal to zero and elemental calcium  $\leq$ 600 mg on the day prior to the Week 266 visit. Percentages are calculated based on participants who had data on all criteria.

# Consistency of Mean Serum and Urine Calcium Values Observed Over 5 Years of Treatment

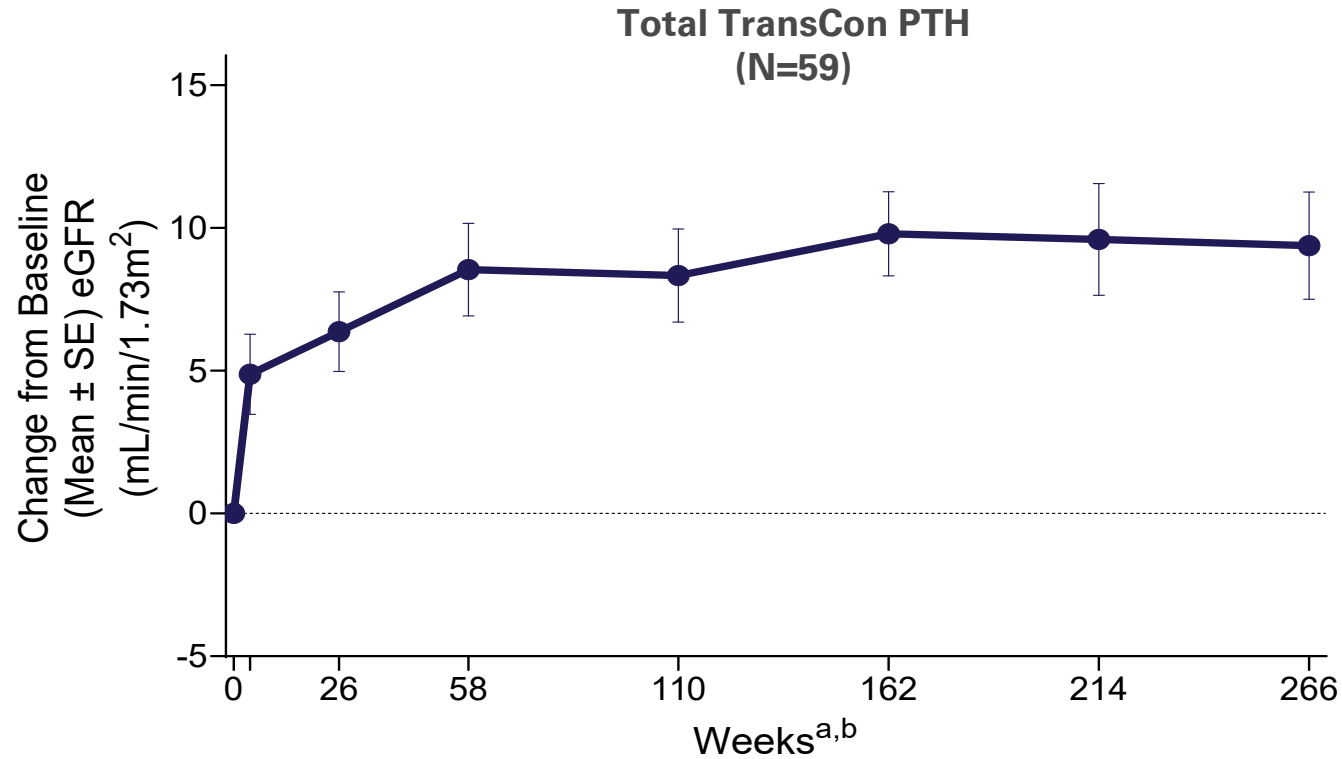


**Mean serum calcium values remained within the normal range throughout the trial  
24-hour urine calcium normalized within 26 weeks and remained normal through Week 266**

Ca = calcium; SE = standard error; ULN = upper limit of normal.

<sup>a</sup>The shaded area represents the normal serum calcium range of 8.3-10.6 mg/dL (2.07-2.64 mmol/L). <sup>b</sup>Week 18 is captured by unlabeled x axis tick mark. <sup>c</sup>The ULN for males and females are depicted by teal and light blue lines, respectively.

# Durable Increase in eGFR Through 5 Years with TransCon PTH Treatment

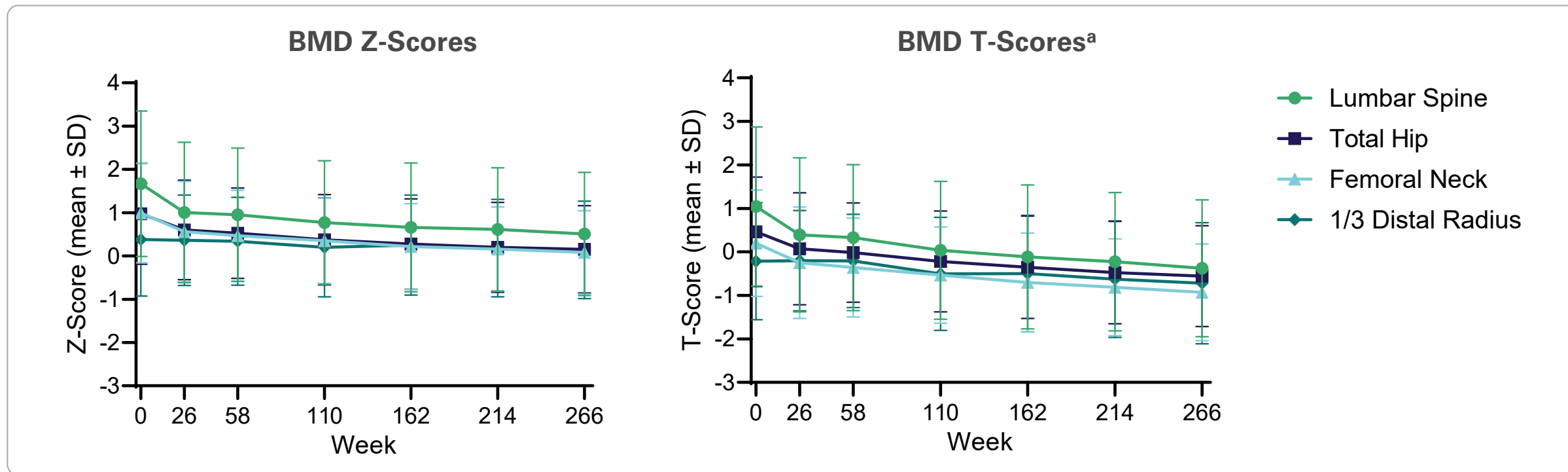


**The increase in eGFR from baseline was sustained through Week 266, with mean (SE) increase in eGFR of 9.4 (1.9) mL/min/1.73m<sup>2</sup> for the total population<sup>c</sup>**

<sup>a</sup>All participants received TransCon PTH (palopegteriparatide) during the open-label extension. <sup>b</sup>Second (unlabeled) X-axis tick in each figure denotes 4 weeks <sup>c</sup>Calculated according to the Modification of Diet in Renal Disease Equation (MDRD): eGFR (mL/min/1.73 m<sup>2</sup>) = 175 × (serum creatinine mg/dL)<sup>-1.154</sup> × (age)<sup>-0.203</sup> × 0.742 [if female] × 1.212 [if Black].

eGFR = estimated glomerular filtration rate; SE = standard error

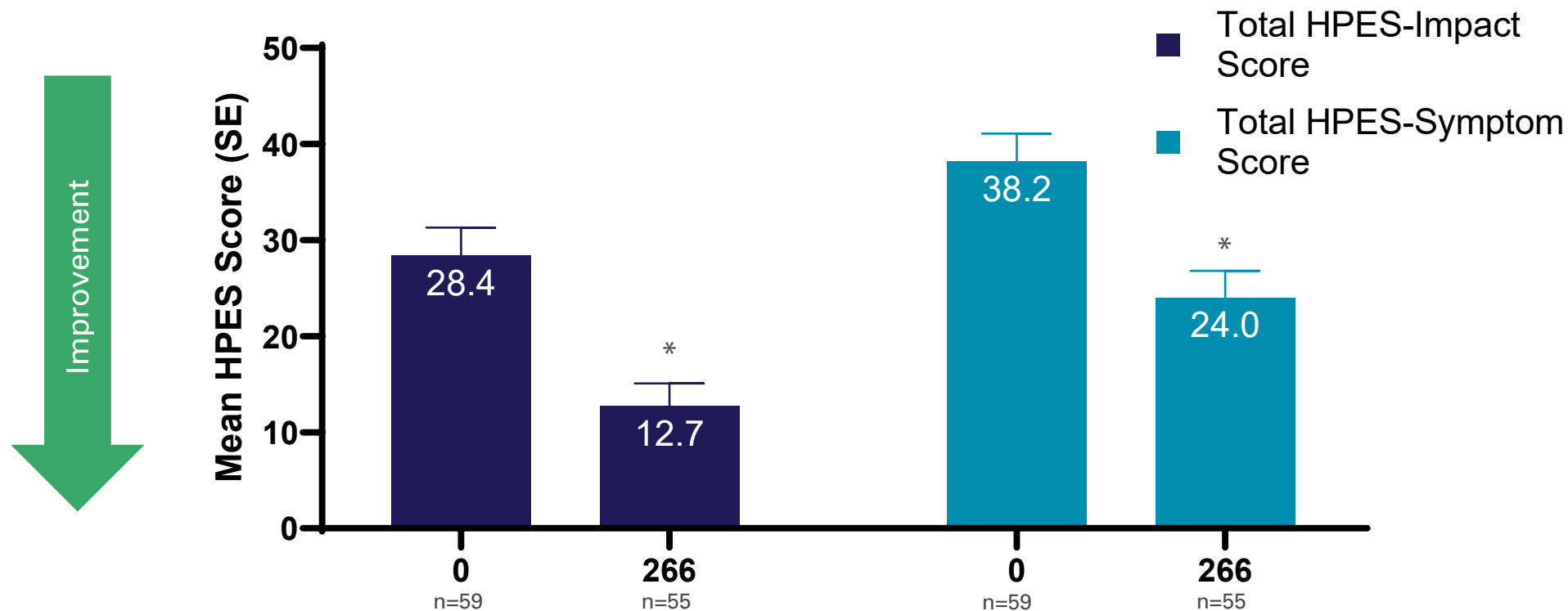
# Mean Bone Mineral Density Scores Trended Towards Age- and Sex-Matched Norms



Mean BMD T- and Z-scores declined from elevated baseline levels and stayed within normal limits through Week 266

BMD = bone mineral density; DXA = dual X-ray absorptiometry; SD = standard deviation.  
<sup>a</sup> T-score reference point: young (30-year-old) Caucasian adult (Kanis JA. *Lancet*. 2002;359:1929–36).

# Improvement in PROs with TransCon PTH Treatment Sustained Through Week 266



Hypoparathyroidism-related physical and cognitive symptoms and impacts on physical functioning and daily life improved with TransCon PTH treatment and were maintained through Week 266

\* P value < 0.0001 when compared versus baseline  
 PRO = patient-reported outcome; HPES = Hypoparathyroidism Patient Experience Scales.

# Safety Profile Over 5 Years of TransCon PTH Treatment

TEAEs during TransCon PTH treatment, n (%)	Total TransCon PTH (N = 59)
Serious TEAE	8 (13.6)
Serious treatment-related TEAE	2 (3.4)
Treatment-related TEAE	28 (47.5)
TEAE related to hypercalcemia or hypocalcemia leading to ED/urgent care visit and/or hospitalization	3 (5.1)

**Treatment-related TEAEs occurring at a rate of  $\geq 5\%$  among all participants (N=59) included:**

- Hypocalcemia (13.6%)
- Headache (11.9%)
- Hypercalcemia (10.2%)
- Nausea (6.8%)
- Paresthesia (6.8%)

**Most TEAEs were mild or moderate and not related to study drug; no TEAEs led to discontinuation of trial of study drug**

ED = emergency department; TEAE = treatment-emergent adverse event.

# PaTH Forward: Conclusions

- 82% of patients were responders for the multi-component endpoint of (1) serum calcium in the normal range, (2) taking no active vitamin D, and (3) taking  $\leq 600$  mg/day of calcium
  - Nearly all patients achieved independence<sup>a</sup> from conventional therapy
- Sustained normalization of 24-hour urine calcium excretion
- Sustained improvements in
  - Renal function
  - Patient reported outcomes
  - Skeletal health
- TransCon PTH was generally well tolerated, with no new safety signals identified and no treatment discontinuations due to treatment-emergent adverse events
- 95% of patients completed five years of treatment

**TransCon PTH demonstrated sustained efficacy and safety during the 5-year trial**

<sup>a</sup> Independence defined as a standing dose of elemental calcium  $\leq 600$  mg and active vitamin D equal to zero on the day prior to the Week 266 visit

# Thank you

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