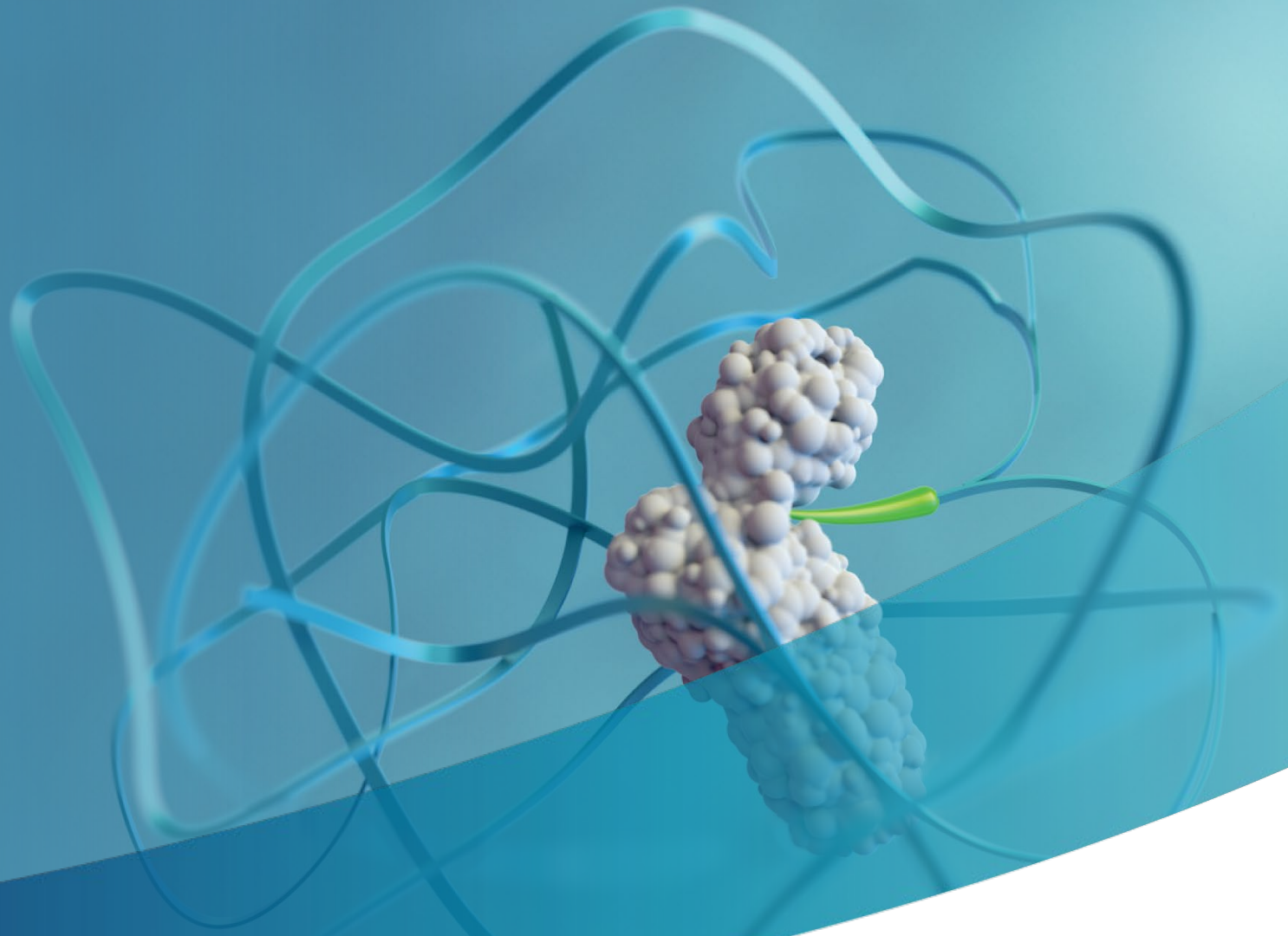


# Ascendis Pharma A/S

TransCon PTH (Palopegteriparatide)

Four Year Results  
Phase 2 PaTH Forward Trial

May 2025



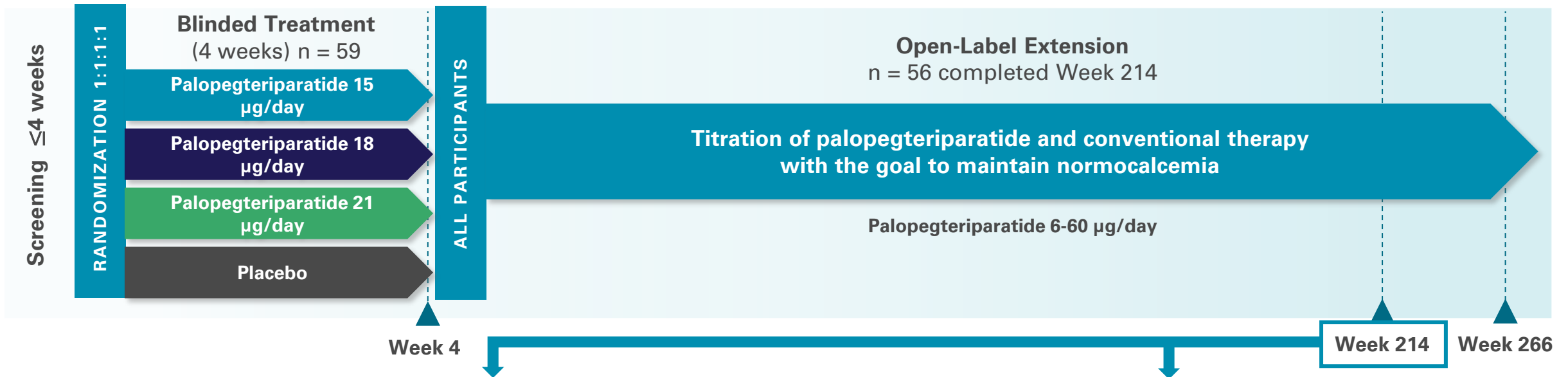
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# PaTH Forward Trial of Palopegteriparatide in Adults with Chronic Hypoparathyroidism

Phase 2 trial with a 4-week randomized, double-blind, placebo-controlled period followed by an open-label extension period through Week 266



### Select Open-Label Extension Endpoints

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

### Skeletal Remodeling and Renal 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

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.

# Baseline Demographics and Disease Characteristics

	All participants (N = 59)
<b>Mean age, years (SD)</b>	50 (12)
<b>Sex, n (%) female</b>	48 (81)
Menopausal status, n (%) postmenopausal	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>Median duration of hypoparathyroidism, years (range)</b>	9 (1-39)
<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.

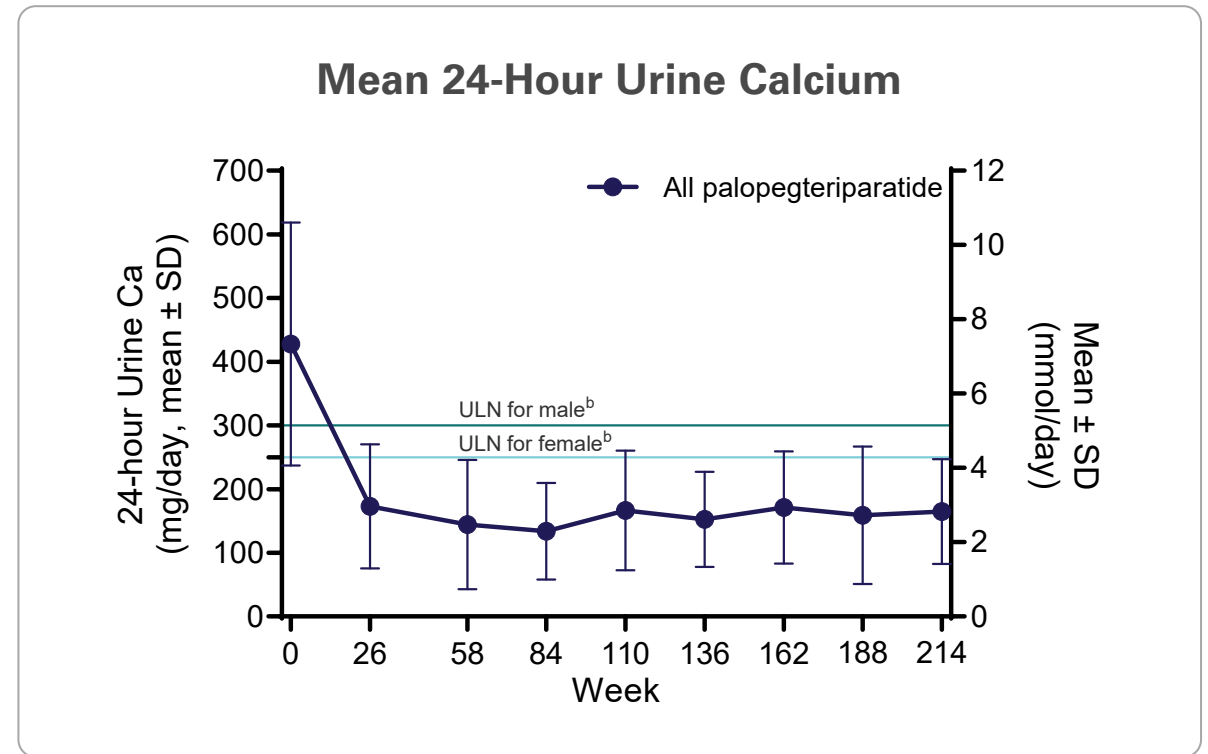
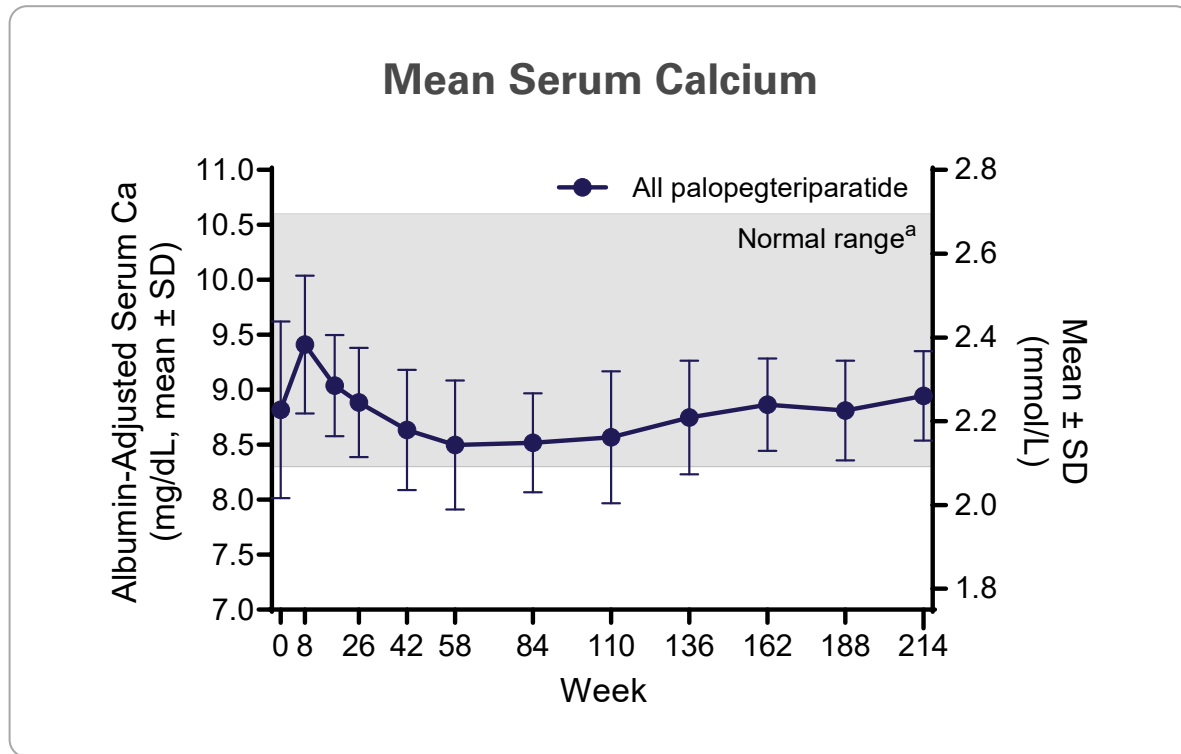
# High Proportion of Participants Achieved Independence From Conventional Therapy

	All palopegteriparatide
<b>Number of participants continuing through Week 214</b>	56
Active vitamin D = 0 µg/day, n (%)	53 (95%)
Calcium ≤ 600 mg/day, n (%)	53 (95%)
Active vitamin D = 0 µg/day <i>and</i> calcium ≤ 600 mg/day, n (%)	52 (93%)

**93% were independent from conventional therapy at week 214<sup>a</sup>**

<sup>a</sup>Not taking active vitamin D and taking ≤ 600 mg/day of elemental calcium.

# Serum and 24-Hour Urine Calcium Remained in the Normal Range Through Week 214

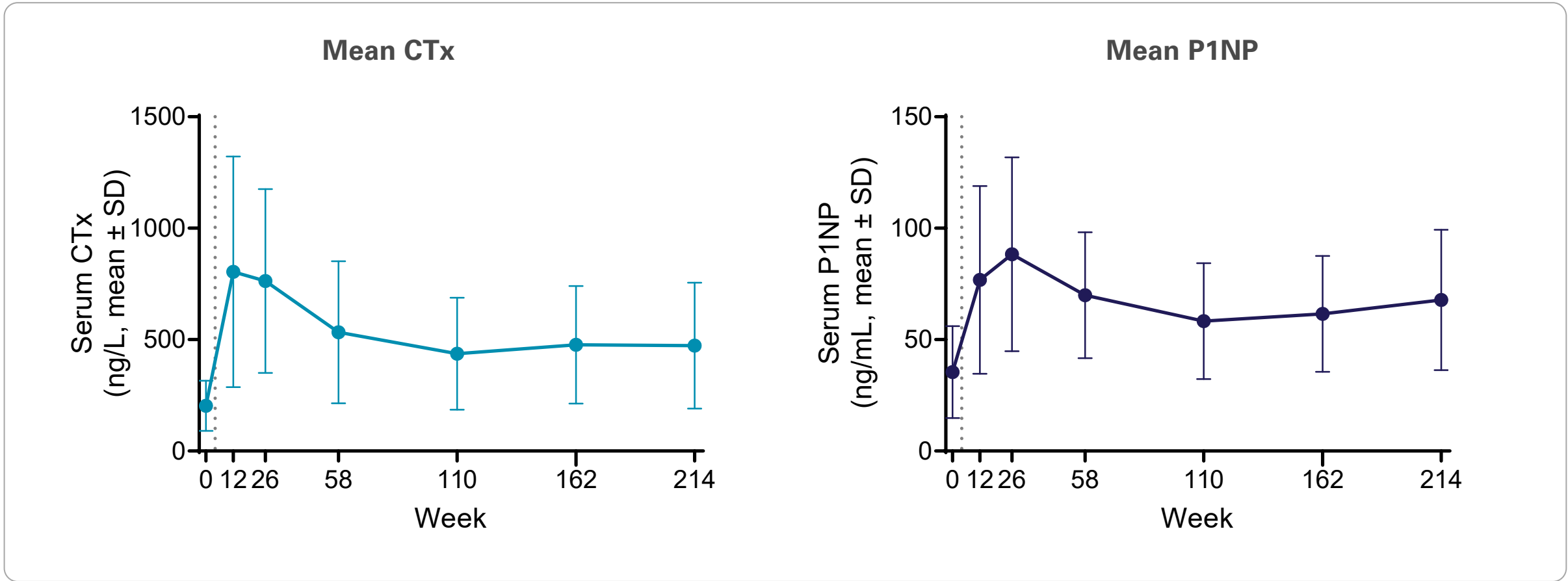


**98% had normal serum calcium at week 214; mean 24-hour urine calcium normalized within 26 weeks**

Serum calcium: n=59 at week 0; n=58 at week 58; n=57 at week 42 and 188; n=56 at weeks 26, 162, and 214; n=55 at week 136; n=54 at weeks 8 and 110; n=52 at week 18  
 24-hour urine calcium: n=55 at week 58; n=54 at weeks 84, 110, and 214; n=53 at week 188; n=50 at week 0; n=51 at weeks 136 and 162; n=49 at week 26  
 Ca, calcium; SD, standard deviation; ULN, upper limit of normal.

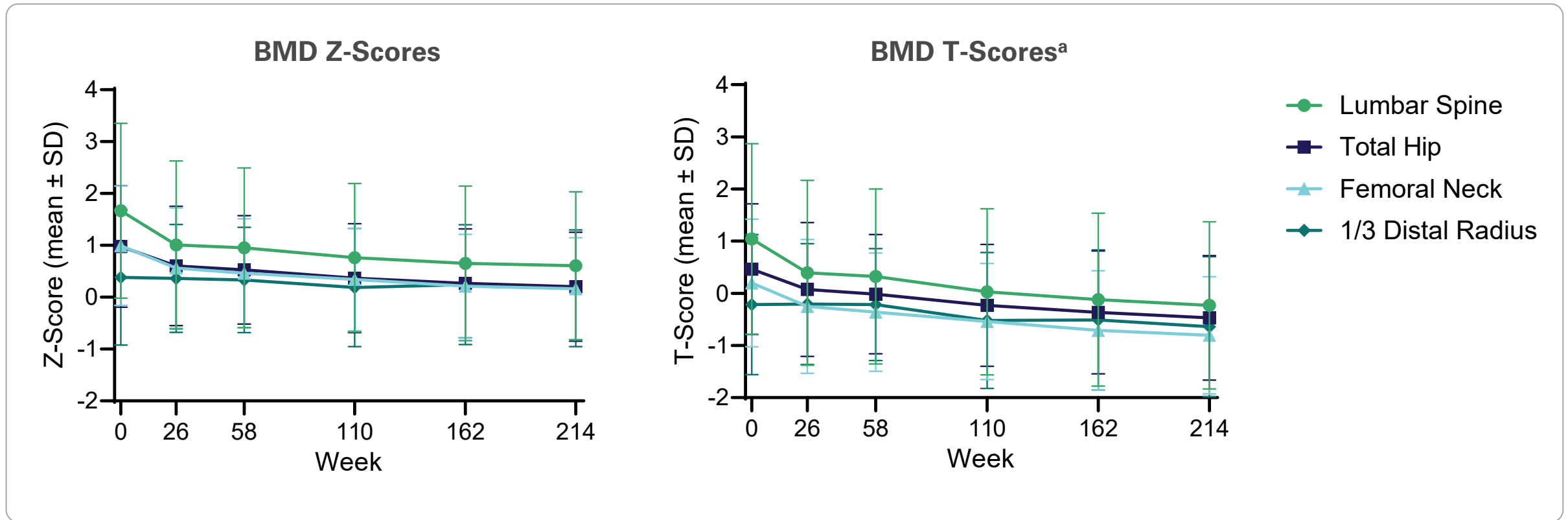
<sup>a</sup>The shaded area represents the normal serum calcium range of 8.3-10.6 mg/dL. <sup>b</sup>The ULN for males and females are depicted by teal and light blue lines, respectively.

# CTx and P1NP Were Consistent From Week 110 Through Week 214



CTx: n=58 at week 0; n=46 at week 12; n=55 at weeks 26 and 110; n=57 at week 58; n=54 at week 162 and 214. P1NP: n=59 at week 0, n=47 at week 12; n=56 at weeks 26, 58, 110, 162, and 214. CTx, C-terminal telopeptide of type 1 collagen; P1NP, procollagen type 1 N-terminal propeptide; SD, standard deviation.

# Bone Mineral Density by DXA: Consistent From Week 26 Through Week 214

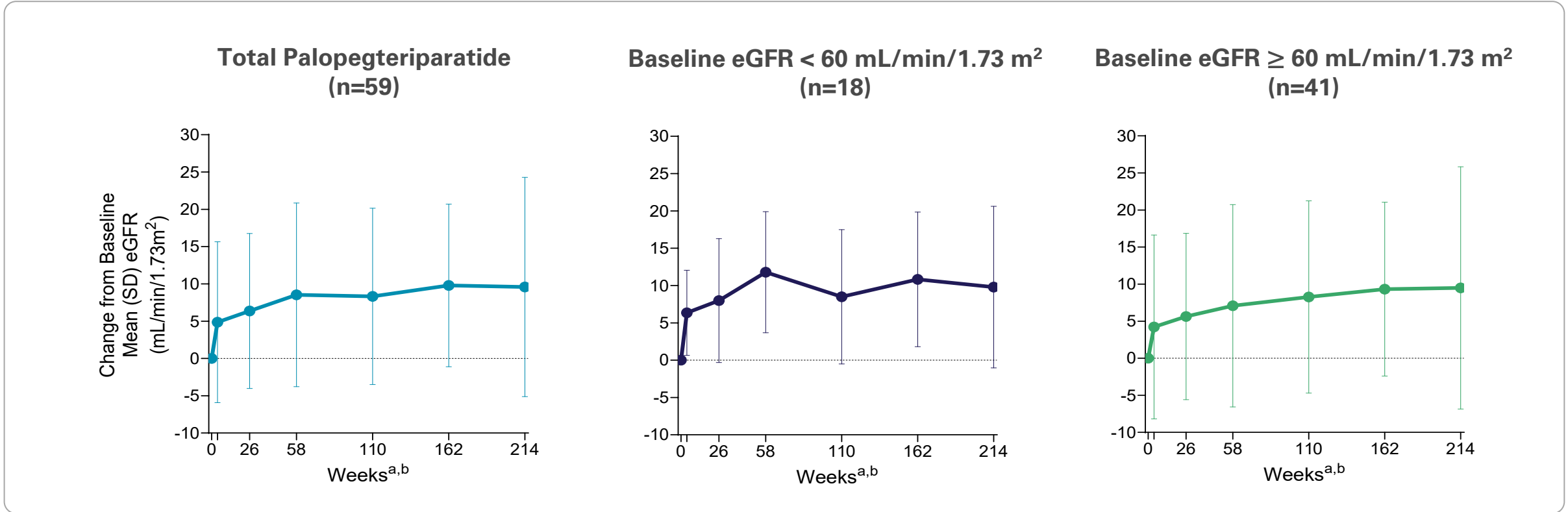


Mean T- and Z-scores were elevated at baseline and remained within the normal range

Lumbar spine, total hip, and femoral neck: n=57 at week 0; n=46 at weeks 26 and 58; n=55 at weeks 110 and 162; n=54 at week 214. 1/3 distal radius: n=55 at week 0; n=43 at weeks 26 and 58; n=53 at week 110; n=52 at week 162 and 214. 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).

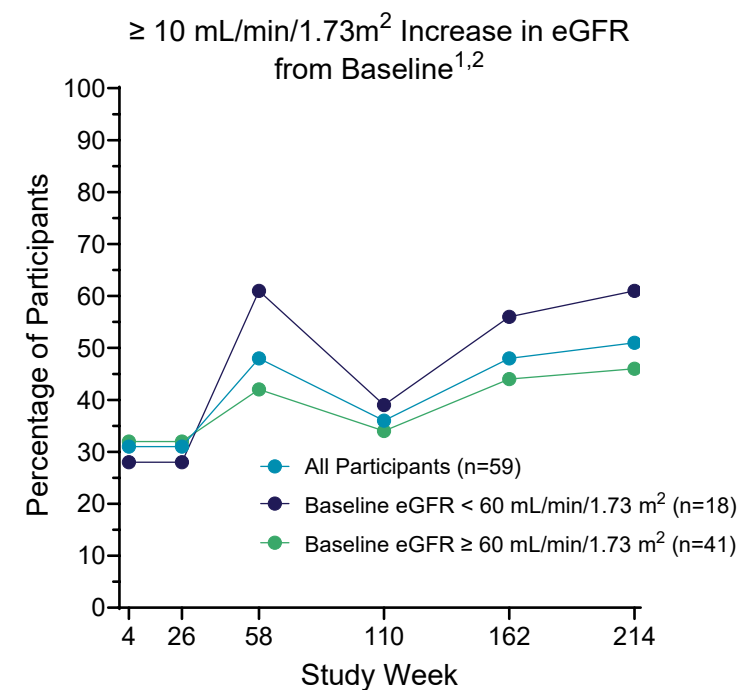
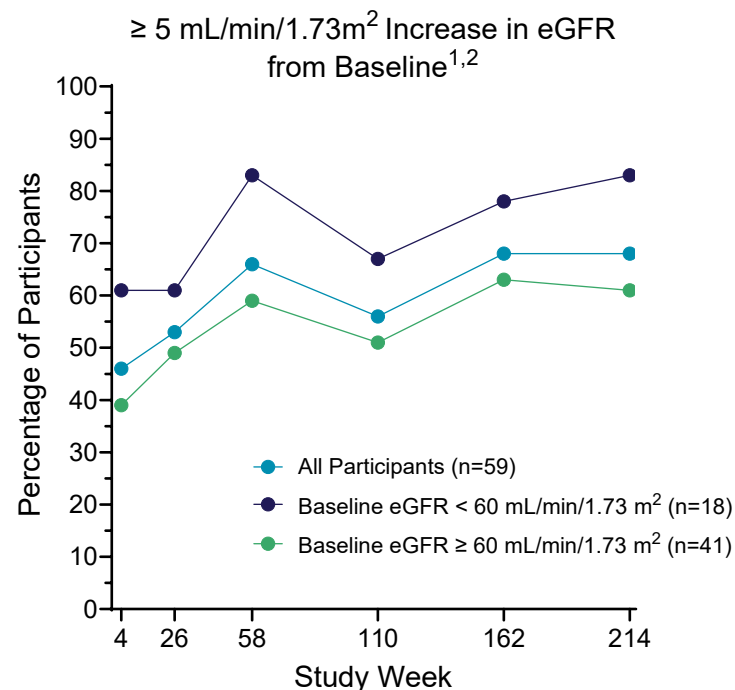
# eGFR Increase With Palopegteriparatide Treatment was Sustained Through Week 214



**Mean (SD) eGFR for total population increased approximately 9.6 (14.7) mL/min/1.73m<sup>2</sup> from baseline<sup>c</sup>**

<sup>a</sup>All participants received TransCon PTH 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 Modified 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].  
 Total palopegteriparatide: n=59 at week 4; n=58 at week 58; n=56 at week 214; n=55 at weeks 26, 162; n=53 at week 110. Baseline eGFR < 60 mL/min/1.73 m<sup>2</sup>: n=18 at weeks 4, 58, 214; n=17 at weeks 26, 162; n=16 at week 110. Baseline eGFR ≥ 60 mL/min/1.73 m<sup>2</sup>: n=41 at week 4; n=40 at week 58; n=38 at weeks 26, 162, 214; n=37 at week 110.

# Proportions of Participants With $\geq 5$ and $\geq 10$ mL/min/1.73 m<sup>2</sup> Increases in eGFR



Most participants (67.8%)<sup>a</sup> had a clinically meaningful<sup>1,2</sup>  $\geq 5$  mL/min/1.73 m<sup>2</sup> increase in eGFR at week 214

<sup>a</sup> Percentages calculated based on ITT population.  
 1. Mayne TJ, et al. *Clin Transplant*. 2021;35(7):e14326.  
 2. Ku E, et al. *J Am Soc Nephrol*. 2016;27(7):2196-204.

# Treatment-Emergent Adverse Events Summary Through Week 214

TEAEs during palopegteriparatide treatment, n (%)	All palopegteriparatide (N = 59)
<b>Any TEAE</b>	58 (98.3)
<b>Serious TEAE</b>	7 (11.9)
<b>Serious treatment-related TEAE</b>	0
<b>Treatment-related TEAE</b>	27 (45.8)
<i>Treatment-related TEAEs occurring in ≥ 5% of participants</i>	
Headache	7 (11.9)
Hypocalcaemia	6 (10.2)
Hypercalcaemia	4 (6.8)
Nausea	4 (6.8)
Paraesthesia	4 (6.8)
<b>TEAE related to hypercalcaemia or hypocalcaemia leading to ED/urgent care visit and/or hospitalization</b>	0
<b>TEAE leading to discontinuation of trial or of study drug</b>	0
<b>TEAE leading to death</b>	0

Most TEAEs were mild or moderate and not related to study drug; no new safety signals were identified

ED, emergency department; PTH, parathyroid hormone; TEAE, treatment-emergent adverse event.

# Conclusions

Palopegteriparatide demonstrated sustained efficacy and safety over a 4-year period

- 93% of remaining participants were independent from conventional therapy and 98% had normal albumin-adjusted serum calcium levels at Week 214
- Mean BMD T- and Z-scores declined from elevated baseline levels and stabilized within the normal range through Week 214
- eGFR increased with palopegteriparatide treatment and was sustained through Week 214
- Palopegteriparatide was generally well tolerated, with no treatment discontinuation due to related adverse events