

TransCon[™] PTH

Top-Line Data from Phase 3 PaTHway Trial

March 13, 2022

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TransCon PTH PaTHway Trial Top-Line Data at Week 26

- PaTHway Trial met primary and all key secondary endpoints
 - 78.7% of patients (48 of 61) treated with TransCon PTH achieved the primary endpoint, compared to 4.8% (1 of 21) of patients in the control group (p-value <0.0001)
 - Statistically significant improvements observed on all key prespecified secondary endpoints compared to control:
 - HPES Symptom measures: Physical domain score (p-value = 0.0038) and Cognitive domain score (p-value = 0.0055)
 - HPES Impact measures: Physical Functioning domain score (p-value = 0.0046) and Daily Life domain score (p-value = 0.0061)
 - SF-36v2[®] Physical Functioning subscale score (p-value = 0.0347)
- TransCon PTH was generally well tolerated, with no discontinuations related to study drug
 - 82% of TransCon PTH patients and 100% of patients in control group reported treatment-emergent adverse events (TEAEs), the majority of which were Grade 1, 2 in severity.
 - One serious related TEAE in the TransCon PTH arm was reported due to a dosing error
 - One death in the TransCon PTH arm was assessed as unrelated to study drug
 - TransCon PTH-treated patients showed a mean decrease in 24-hour urine calcium excretion into the normal range, from 390 mg/24 hours down to 220 mg/24 hours

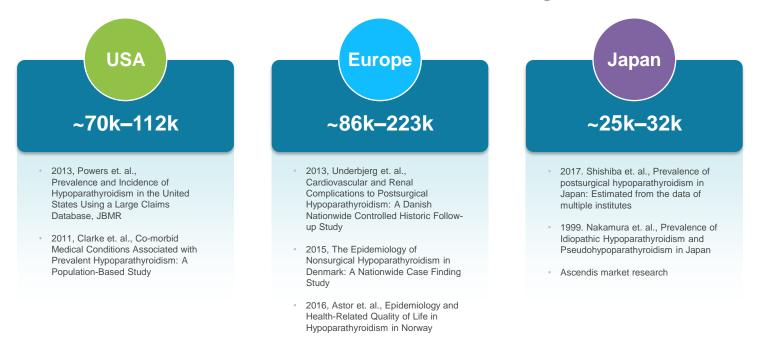


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Chronic Hypoparathyroidism: Significant Patient Population

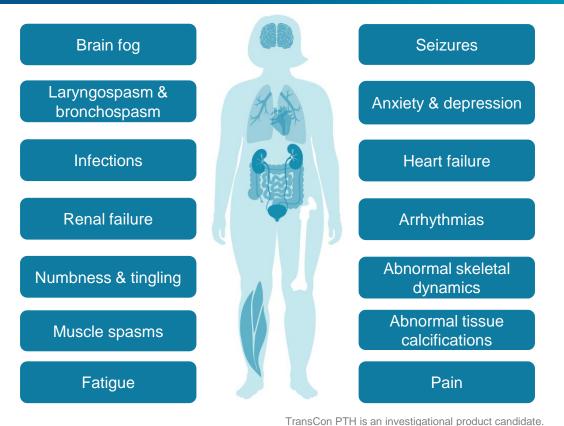
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Estimated Prevalence: ~200K in these 3 regions





Hypoparathyroidism: Multiple Complications



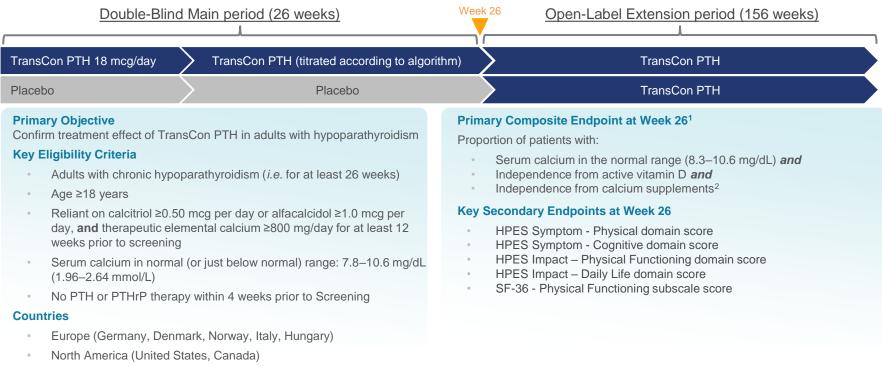
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5 Shobak DM et. al. J Clin Endocrinol Metab. 2016 June 01;101(6):2300-2312.

TransCon PTH PaTHway (Phase 3) Trial

Double-blind, placebo-controlled trial with an open-label extension period adults with chronic hypoparathyroidism randomized 3:1 (TransCon PTH:placebo)

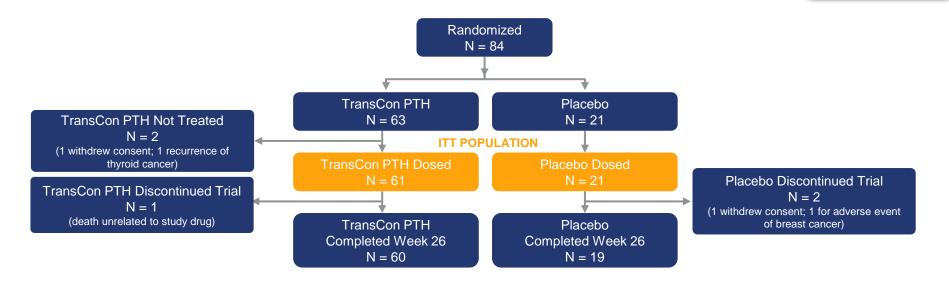


¹ No increase in prescribed study drug within 4 weeks prior to Week 26 visit.
² If needed to meet recommended dietary intake of calcium, it was permitted to take calcium supplements <600 mg/day as a nutritional supplement.</p>

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PaTHway Trial Patient Disposition



Intention To Treat (ITT): All randomized patients who received at least 1 dose of randomized treatment

• Safety Analysis Set (SAS): All randomized patients who received at least 1 dose of randomized treatment

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Patients Who Discontinued Trial during Blinded Treatment Period

Randomized Arm	Off Study Day	Off Study Reason
Placebo	30	Withdrew consent
Placebo	62	Breast cancer
TransCon PTH	111	Cardiac arrest

All discontinuations were unrelated to study drug





Patient Demographics

Demographics and Baseline Characteristics

Characteristics	TransCon PTH (N = 61)	Placebo (N = 21)
Age (years) (n)	61	21
Mean (SD)	49.0 (13.1)	47.3 (11.4)
Age Group (years) – n (%)		
<50	28 (45.9)	14 (66.7)
≥50	33 (54.1)	7 (33.3)
Sex at Birth n (%)		
Female	46 (75.4)	18 (85.7)
Body Mass Index (kg/m²) (n)	61	21
Mean (SD)	27.3 (5.8)	29.5 (5.7)
Menopausal Status – n (%)	46	18
Postmenopausal	19 (41.3)	3 (16.7)

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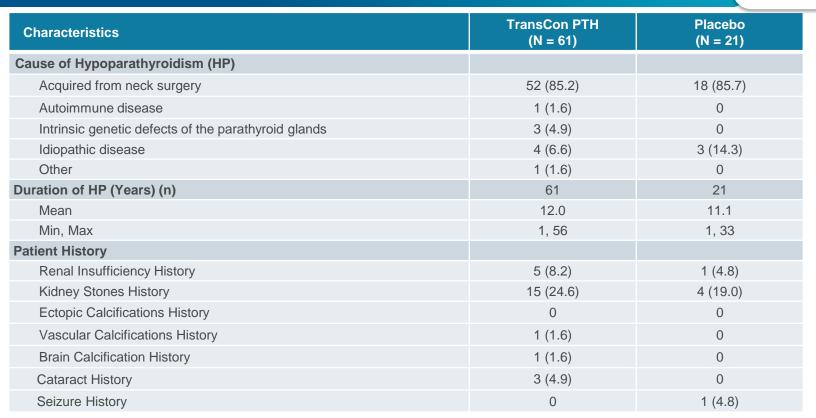
Demographics and Baseline Characteristics (continued)

Characteristics	TransCon PTH (N = 61)	Placebo (N = 21)
Race – n (%)		
American Indian or Alaska Native	0	0
Asian	3 (4.9)	2 (9.5)
Black or African American	0	0
Native Hawaiian or Other Pacific Islander	0	0
White	57 (93.4)	19 (90.5)
Other	1 (1.6)	0
Geographic Region – n (%)		
North America	39 (63.9)	12 (57.1)
Europe	22 (36.1)	9 (42.9)

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Hypoparathyroidism Disease Etiology and Medical History



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Baseline Conventional Therapy

Conventional Therapy Total Daily Dose (TDD) at Baseline	TransCon PTH (N = 61)	Placebo (N = 21)
Calcium Supplement/TDD (mg) (n)	61	21
Mean	1748	2105
Min, Max	600, 5000	800, 7200
Calcitriol (Active Vitamin D) / TDD (µg) (n)	53	17
Mean	0.76	0.69
Min, Max	0.5, 2.0	0.5, 1.75
Alfacalcidol (Active Vitamin D) / TDD (µg) (n)	8	4
Mean	2.5	2.0
Min, Max	1.0, 4.0	1.5, 2.5

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Baseline Albumin-Adjusted Serum Calcium & 24-Hour Urine Calcium

Lab Summary at Baseline	TransCon PTH (N = 61)	Placebo (N = 21)
Albumin-Adjusted sCa (mg/dL) (n)	61	21
Mean (SD)	8.8 (0.7)	8.6 (0.6)
24-Hour Urine Calcium (mg/dL) (n)	60	21
Mean (SD)	392 (175)	329 (140)





Trial Results

Primary Composite Endpoint at Week 26

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	TransCon PTH (N = 61)	Placebo (N = 21)
Number of Patients Meeting The Primary Endpoint Criteria at Week 26 (responders)	48	1
Proportion (95% CI), %	78.7% (66.3%, 88.1%)	4.8% (0.1%, 23.8%)
Hypothesis Test: p-value (TransCon PTH vs Placebo) ¹	<0.0001	
Number of Patients Meeting Each Component, (n):		
Albumin-adjusted sCa within the normal range ²	49	10
Independence from active vitamin D	60	5
Independence from therapeutic doses of calcium supplements	57	1
No increase in prescribed study drug	57	12

Three patients with missing data for at least one of the components are considered as non-responders.

TransCon PTH demonstrated a response rate of 78.7% compared to 4.8% for control (p-value < 0.0001)

¹ CMH test controlling for etiology of hypoparathyroidism (post-surgical vs other).

² The normal range for albumin-adjusted sCa is 8.3-10.6 mg/dL (2.07-2.64 mmol/L). Patients with missing data on one or more of the criteria are considered as nonresponders.

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TransCon PTH patients discontinued active vitamin D completely within four weeks



Calcium Supplement Dose (Mean +/- SE) by Visit



TransCon PTH enabled rapid and sustained calcium supplement reduction

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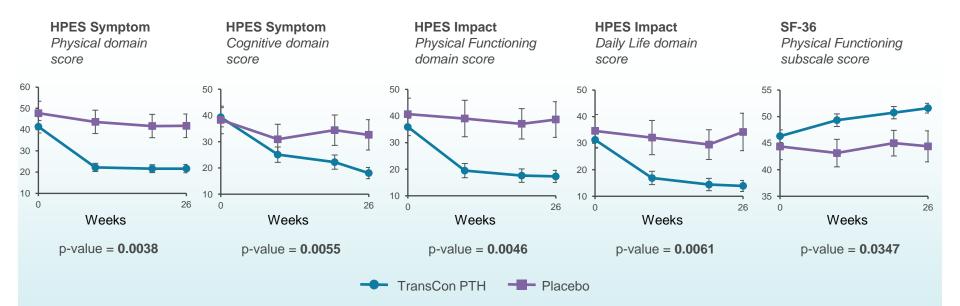
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Albumin-adjusted Serum Calcium (Mean +/- SE) by Visit Pathwai TransCon PTH -Placebo 10.0 9.5 Calcium Corrected for 9.0 Albumin mg/dL 8.5 Mean (± SE) 8.0 7.5 12 8 16 20 24 28 0 4 Weeks

TransCon PTH patients maintained mean serum calcium levels in the normal range at all study visits



Key Secondary Endpoints: Patient Reported Symptom & Quality of Life Domains



All prespecified key secondary endpoints demonstrated statistically significant improvement compared to control

P-values are TransCon PTH vs Control. For HPES, lower scores indicate improvement; for SF-36, higher scores indicate improvement.

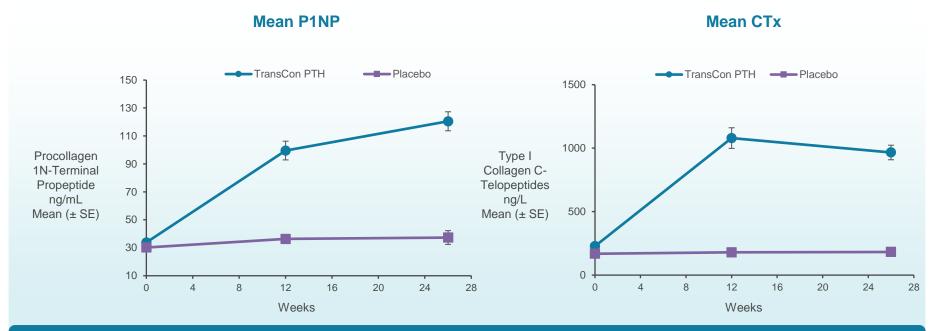
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Bone Turnover Markers: P1NP and CTx (Mean +/- SE) by Visit



Similar pattern exhibited at Week 26 in Phase 2 PaTH Forward Trial

P1NP, procollagen type 1 N-terminal propeptide CTx, C-terminal telopeptides of type I collagen

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Safety Results

Overall TEAE Summary



TEAE Summary	TransCon PTH (N = 61); n (%)	Placebo (N = 21); n (%)
Treatment-Emergent Adverse Events (TEAE)	50 (82.0)	21 (100.0)
Serious TEAE	5 (8.2)	3 (14.3)
Severity*		
Grade ≥3	2 (3.3)	1 (4.8)
Grade 2	21 (34.4)	9 (42.9)
Grade 1	27 (44.3)	11 (52.4)
Related TEAE	30 (49.2)	8 (38.1)
Serious Related TEAE	1 (1.6)	0
TEAE Related to Hyper- or Hypocalcaemia Leading to ER/Urgent Care Visit and/or Hospitalization	4 (6.6)	2 (9.5)
TEAE Leading to Discontinuation of Study Drug	1 (1.6)**	2 (9.5)

*In the severity categories, patients are displayed for the highest severity category only. **Death due to cardiac arrest



Treatment-Emergent Adverse Events (≥5 patients in total)

Preferred Term	TransCon PTH (N = 61)	Placebo (N = 21)
Patients with at least one TEAE, n (%)	50 (82.0)	21 (100.0)
TEAEs		
Injection site reaction	19 (31.1)	0
Headache	13 (21.3)	2 (9.5)
Hypocalcaemia	6 (9.8)	9 (42.9)
Fatigue	9 (14.8)	5 (23.8)
Paraesthesia	11 (18.0)	3 (14.3)
Muscle spasms	7 (11.5)	3 (14.3)
Nausea	7 (11.5)	2 (9.5)
Arthralgia	6 (9.8)	2 (9.5)
Diarrhoea	6 (9.8)	1 (4.8)
Hypercalcaemia	6 (9.8)	0
Constipation	4 (6.6)	1 (4.8)
Insomnia	4 (6.6)	1 (4.8)

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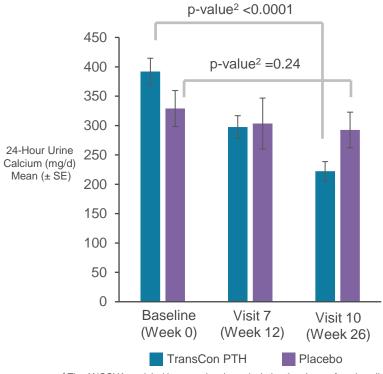


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24-Hour Urine Calcium (mg/d) by Visit



24-Hour Urine Calcium (mg/d), Change from baseline at Week 26	TransCon PTH (N = 61)	Placebo (N = 21)
ANCOVA Model (n) ¹		
LS Mean (SE), mg/d	-154 (21)	-64 (32)
95% CI for LS Mean	(-197, -112)	(-131, 2)
Difference in LS Means (SE)	-90 (32)	
95% CI for Difference in LS Means	(-155, -25)	
p-value (TransCon PTH vs Placebo)	0.0085	

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¹ The ANCOVA model with unequal variance includes the change from baseline as the response variable, treatment and etiology of HP as fixed effects and baseline value of the parameter as a covariate.

² p-values from t-test.

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Program Status and Next Steps

- Two Open-Label Extension trials continuing
 - 57 of 59 patients remain in PaTH Forward Trial after two years
 - All 79 patients who completed the blinded period continue in the PaTHway Trial
- Engage with regulatory authorities regarding registration plans for US and EU
 - Anticipated NDA submission to FDA during Q3, 2022
 - Anticipated MAA submission to EMA during Q4, 2022
- Continue adult TransCon PTH trial in China*
- Japan Phase 3 top-line data expected in Q3, 2022
- Plan to initiate pediatric TransCon PTH trial in Q4, 2022

*In development in Greater China through strategic investment in VISEN Pharmaceuticals.

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Thank you

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