



Cautionary Note On Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, such as statements regarding our future results of operations and financial position, including our business strategy, prospective products, availability of funding, clinical trial results, product approvals and regulatory pathways, collaborations, timing and likelihood of success, plans and objectives of management for future operations, and future results of current and anticipated products, are forward-looking statements. These forward-looking statements are based on our current expectations and beliefs, as well as assumptions concerning future events. These statements involve known and unknown risks, uncertainties and other factors that could cause our actual results to differ materially from the results discussed in the forward-looking statements. These risks, uncertainties and other factors are more fully described in our reports filed with or submitted to the Securities and Exchange Commission, including, without limitation, our most recent Annual Report on Form 20-F filed with the SEC on March 28, 2018, particularly in the sections titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations". In light of the significant uncertainties in our forward-looking statements, you should not place undue reliance on these statements or regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified timeframe, or at all.

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This presentation concerns product candidates that are or have been under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration, European Medicines Agency or other foreign regulatory authorities. These product candidates are currently limited by U.S. Federal law to investigational use, and no representations are made as to their safety or effectiveness for the purposes for which they are being investigated.

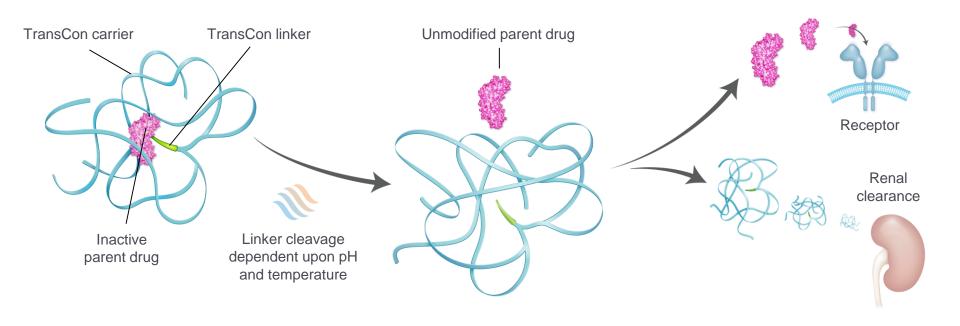


Company Overview

- Create best-in-class products addressing unmet medical needs by applying
 TransCon™ technologies to parent drugs with clinical proof-of-concept
 - Unique algorithm for product innovation has resulted in clinical validation of 3 out of 3 product candidates within the endocrinology rare disease area
- Endocrinology rare disease internal pipeline and expected near-term milestones
 - TransCon hGH for pediatric GH deficiency: Phase 3 demonstrated superiority of TransCon hGH
 - TransCon PTH for hypoparathyroidism: Phase 2 top-line data Q4 2019
 - TransCon CNP for achondroplasia: Phase 2 initiation Q3 2019
- Build leading positions for each endocrinology rare disease product with commercial focus on the U.S. and select European markets
 - Partnership with VISEN Pharmaceuticals for commercialization of endocrinology rare disease products in China
- Established high-value collaborations with Roche/Genentech in ophthalmology and Sanofi in diabetes
- As of December 31, 2018, pro forma cash and cash equivalents of ~€755 million¹



TransCon Technology: Sustained Systemic Delivery

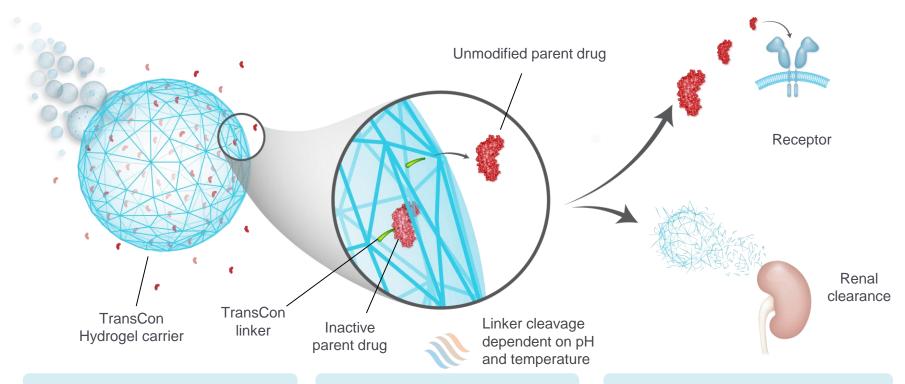


Parent drug is transiently bound to a TransCon linkersoluble carrier moiety, which inactivates and shields parent drug from clearance Following injection, the linker is designed to autohydrolyze at specific rates to predictably release unmodified parent drug

Designed to distribute parent drug like the endogenous compound; linker-carrier is cleared renally



TransCon Technology: Sustained Localized Delivery



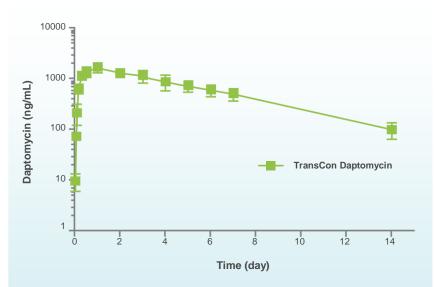
Parent drug is transiently bound to TransCon linkerhydrogel carrier, which inactivates, shields parent drug and prevents clearance Following injection, the linker is designed to autohydrolyze at specific rates to predictably release unmodified parent drug

Designed to provide sustained high local drug levels with low systemic exposure; hydrogel degrades into small polymers that are renally cleared following drug release



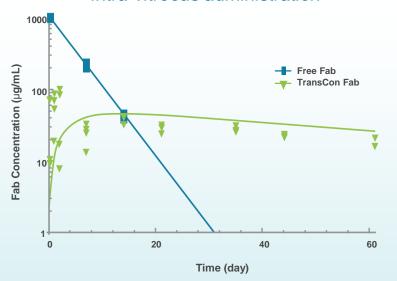
Sustained Localized Delivery: Validated Across Multiple Drugs and Administration Sites

Small Molecules Intra-articular administration



Plasma PK of Daptomycin following intra-articular administration in rabbits. TransCon Daptomycin half-life was ~3 days.

Antibody Fragments (Fab) Intra-vitreous administration¹

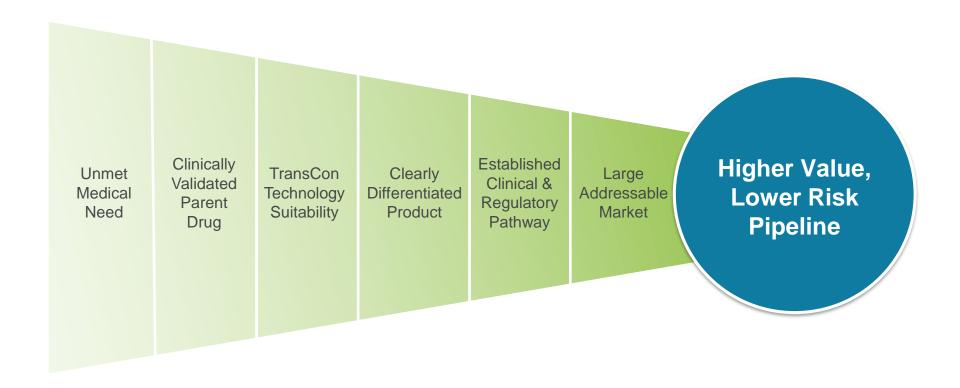


Vitreal PK of Fab following intra-vitreous administration in rabbits. TransCon Fab half-life was ~53 days compared to free Fab half-life of ~3.2 days.

- Excellent local tolerability of TransCon hydrogel carrier
- Sustained high local concentration with low systemic exposure



Ascendis Algorithm for Product Innovation



Our unique algorithm for product innovation has resulted in clinical validation of 3 out of 3 product candidates in Endocrinology Rare Disease



Building a Leading Company in Rare Diseases

Internal Endocrinology Pipeline

PRODUCT CANDIDATE	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	POTENTIAL WW MARKET ¹	COMMERCIAL RIGHTS ²	
TransCan hCll	Pediatric Growth Hormone Deficiency				ΦΩ L'II' 2	ascendis S	
TransCon hGH	Adult Growth Hor	mone Deficiency		·	> \$3 billion ³ ascendis pharma		
TransCon PTH	Hypoparathyroidis	sm			> \$2 billion ⁴	ascendis pharma	
TransCon CNP	Achondroplasia				> \$1 billion	ascendis pharma	

Strategic Collaborations

PRODUCT CANDIDATE	PRIMARY INDICATION	DEVELOPMENT STAGE	POTENTIAL WW MARKET ¹	WW COMMERCIAL RIGHTS
TransCon Anti-VEGF	Ophthalmology	Not disclosed	>\$7 billion	Genentech
TransCon Peptides	Diabetes	Not disclosed	>\$1 billion	SANOFI



¹ Based on market data and Company estimates

² Excludes rights granted to VISEN Pharmaceuticals in Greater China

³ Includes all indications

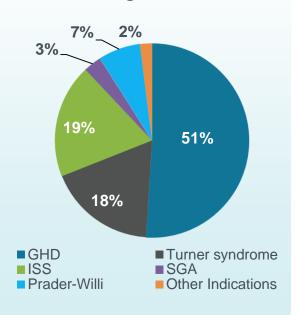
⁴ Based on treatment of ~25% of the U.S. patient population of ~80,000 patients.





The Growth Hormone Market¹

- ~\$3.5 billion in worldwide rhGH² sales and growing (2.4% CAGR)³
- Fragmented market with same undifferentiated hGH molecule competing on differentiated formulations, devices, services and access strategies
- Pediatric indications comprise ~90% of the market
- Indications for growth hormone treatment include:
 - Growth Hormone Deficiency (GHD) ~50% of market
 - Turner syndrome
 - Idiopathic short stature (ISS)
 - Prader-Willi syndrome
 - Small for gestational age (SGA)



Well-established market primed for disruption by a long-acting growth hormone product



¹ Based on company research

² Recombinant human growth hormone; subsequently referred to in this presentation as hGH

³ Compounded Annual Rate of Growth based on 2010-2014 data

Clinical Implications of Untreated GHD

BODY COMPOSITION

Increased fat mass, decreased muscle mass, and decreased bone density have been shown to occur soon after treatment discontinuation.^{2,3,4}

CARDIOVASCULAR DISEASE

Early discontinuation of GH treatment may induce impairment of patients' lipid profiles and cardiac structure and performance, leading to increased risk for CV disease.^{6,7}











ULTIMATE HEIGHT ACHIEVEMENT

Adults who had child-onset GHD may not achieve full height potential if treatment is stopped prior to adulthood.¹

MENTAL HEALTH

A high incidence of psychiatric disorders, usually accompanied by poor life quality, is associated with adults who were GHD as children.⁵

FRACTURES

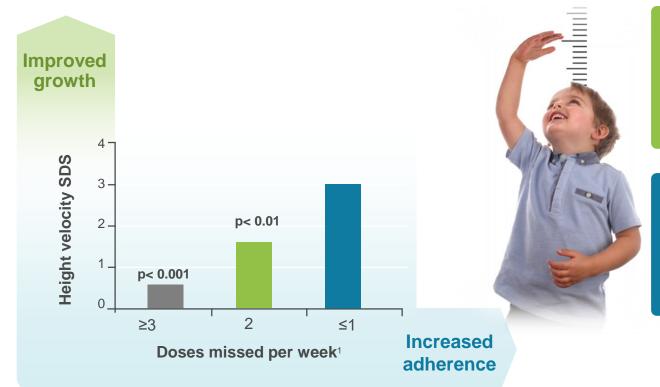
Adult peak bone mass is considerably lower, and rates of fractures are significantly higher among adults with GHD who were not treated as children.8

Daily hGH addresses all the symptoms of the disease; long-acting growth hormone products must fully mimic daily hGH to adequately address the totality of the disease



Daily Growth Hormone: The Problem

Poor adherence with daily hGH therapy is associated with reduced height velocity and impaired quality of life¹

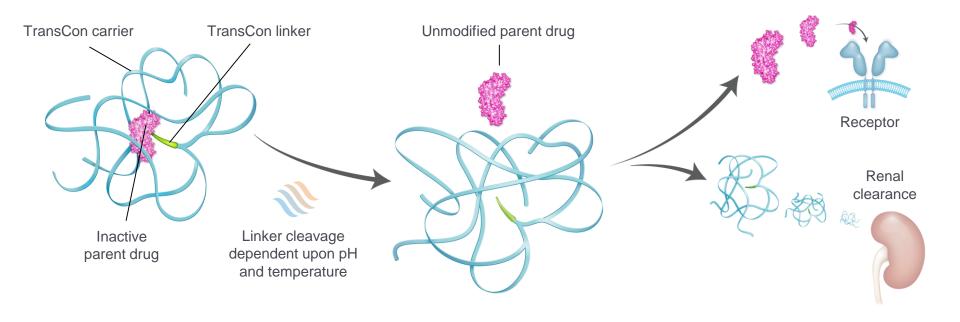


Reduced frequency of administration is associated with better adherence²

In the 1st year, two of three patients miss >1 injection on average per week¹



TransCon hGH Design



Once-weekly prodrug releases unmodified hGH designed to mimic daily hGH:

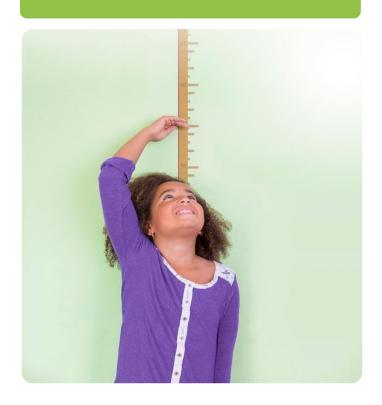
- Tissue distribution
- ✓ Physiological levels
- ✓ Therapeutic effects: efficacy, safety and tolerability



TransCon Growth Hormone Target Product Profile

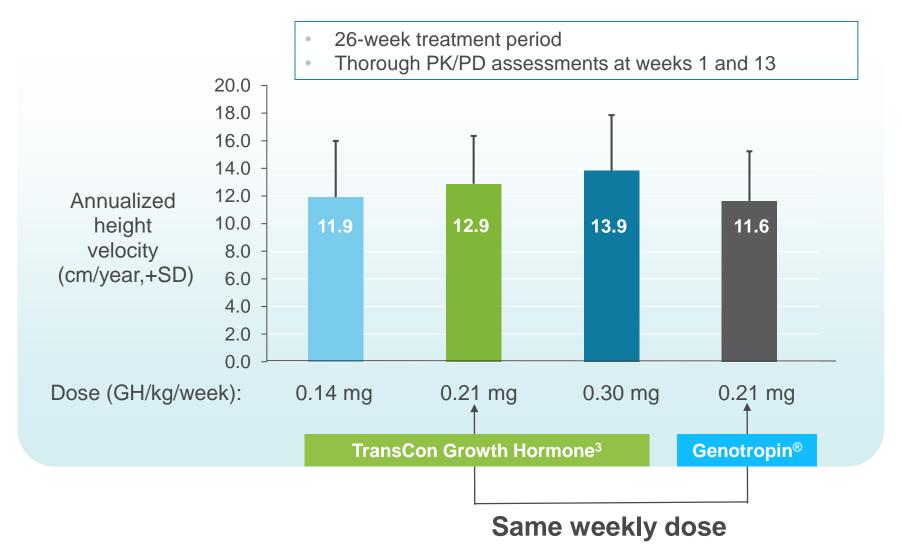
- Efficacy
- Safety (including immunogenicity)
- Tolerability
- Weekly subcutaneous administration
- Small injection volume (31G needle)
- Room temperature storage
- Device
 - Easy to use
 - Automatic data capture
 - Empty-all design

Comparable to Daily Growth Hormone





Growth Comparable to a Daily hGH in Phase 21,2

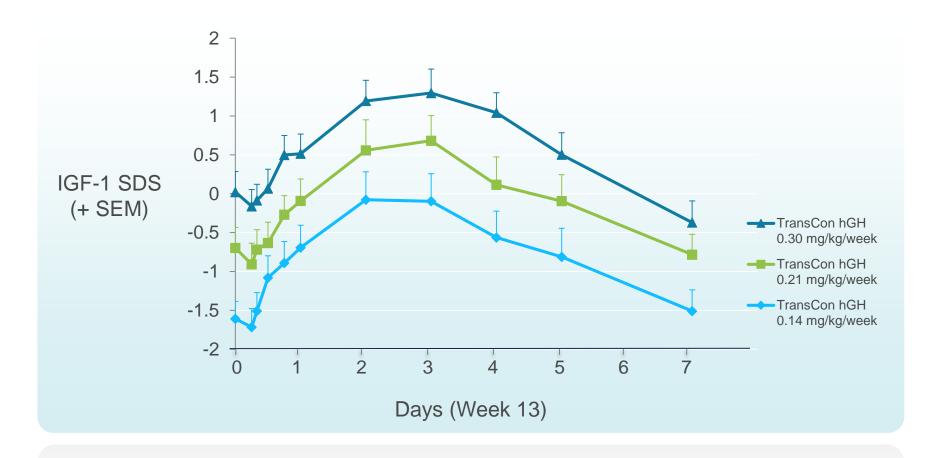


¹ Intergroup differences not statistically significant

² J Clin Endocrinol Metab 2017, 102(5): 1673–1682

³ Conducted with a previous lower strength version of TransCon hGH

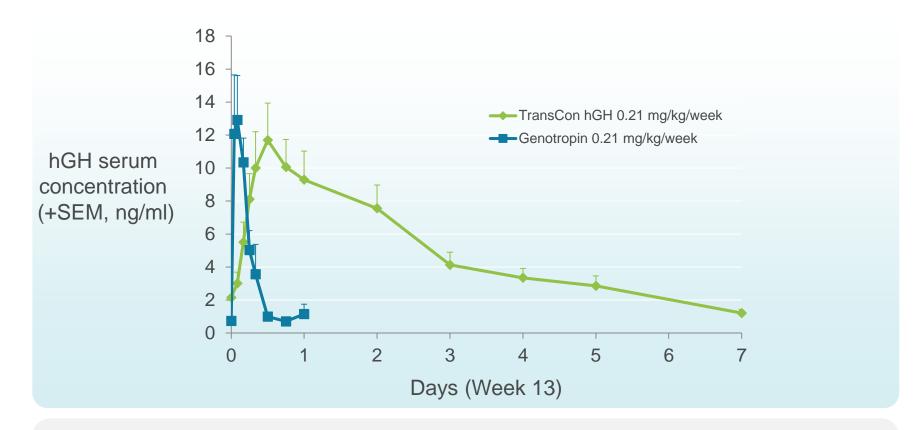
Dose Proportional IGF-1 Response in Phase 21



Transient values greater than +2.0 observed in a small number of patients primarily at the highest dose level



Comparable hGH Levels in Phase 21



Maximum hGH concentration comparable between equivalent weekly doses of TransCon hGH and a daily hGH



Comparable Safety to a Daily hGH in Phase 21

No serious adverse events related to study drug

 Adverse events consistent with daily hGH therapy observed and not different between cohorts

Immunogenic profile comparable to a daily hGH

- No occurrence of neutralizing antibodies
- Low incidence of low-titer non-neutralizing antibodies

Injection site tolerability comparable to a daily hGH

- >1100 TransCon hGH injections administered
- No reports of lipoatrophy or nodule formation



TransCon hGH Phase 3 Program



 Top-line data reported Q1 2019



- Switch trial (n=146)
- Fully enrolled
- Data expected Q2 2019



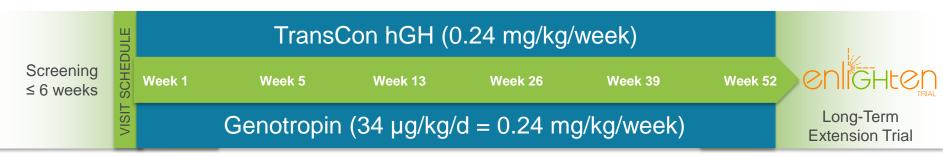
- FDA and EMA support size and scope of program for pediatric GHD filing
- Database lock for filing package expected Q3 2019



Phase 3 heiGHt Trial



161 treatment-naïve children with GHD dosed (2:1 randomization)



Key Inclusion Criteria

- Prepubertal children with GHD
- Height SDS ≤ -2.0
- IGF-1 SDS ≤-1.0
- 2 GH stimulation tests (GH ≤10 ng/mL)
- Bone age ≥ 6 months behind chronological

Key Endpoints

- Annualized height velocity at 52 weeks (primary endpoint)
- Annualized HV at earlier time points
- Change in HT SDS over 52 weeks
- Change in serum IGF-1/IGFBP-3 levels
- Change in IGF-1 SDS and IGFBP-3 SDS
- Normalization of IGF-1 SDS



Demographics and Baseline Characteristics Comparable Between Arms

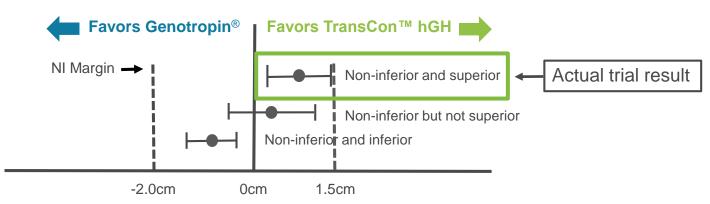


	TransCon™ hGH (N=105) Mean	Genotropin [®] (N=56) Mean	Total (N=161) Mean
Age (years)	8.51	8.48	8.50
Bone Age (years)	5.84	5.98	5.88
Height SDS	-2.89	-3.00	-2.93
BMI SDS	-0.32	-0.14	-0.25
Delta Mid-Parental Height SDS	-2.32	-2.55	-2.40
IGF-1 SDS	-2.08	-1.96	-2.04
Peak GH (ng/mL)	5.89	5.48	5.75
Caucasian (%, in race)	95.2	92.9	94.4
Male (%)	81.9	82.1	82.0

TransCon[™] hGH Met Primary Endpoint of Non-inferiority and Demonstrated Superiority in AHV at Week 52



	TransCon™ hGH (N=105)	Genotropin [®] (N=56)	Estimate of Treatment Difference	P-value
LS Mean AHV at Week 52 (cm/year)	11. 2	10.3	0.86	0.0088
Standard Error	0.23	0.30	0.33	
95% Confidence Interval (cm/year)	10.71 – 11.62	9.73 – 10.89	0.22 – 1.50	



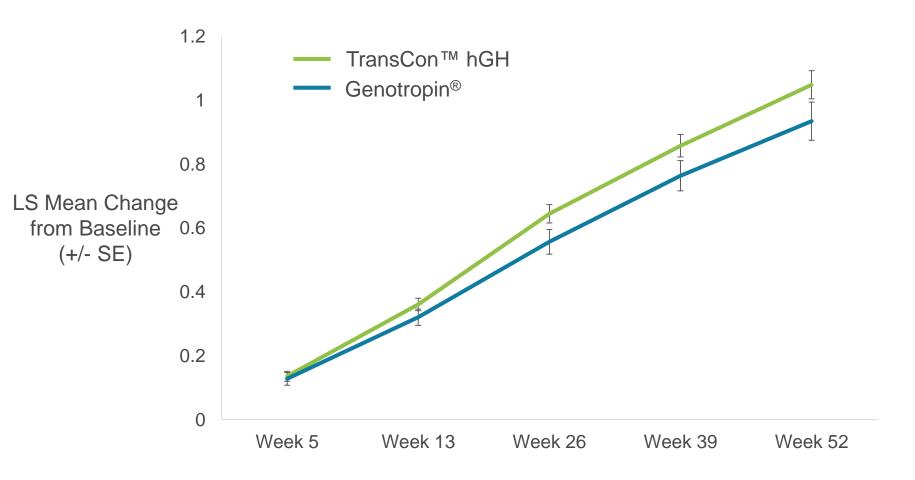
Treatment difference (TransCon™ hGH – Genotropin®)



All product candidates are investigational.

Change in Height SDS





Lower Incidence of Poor-Responders with TransCon™ hGH



Poor-responders defined as AHV < 8.0 cm/year

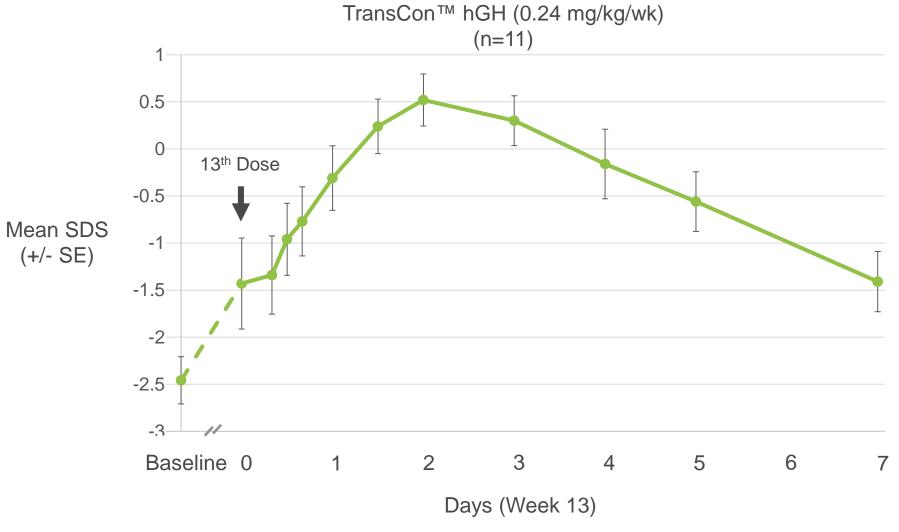
At Week 52	TransCon™ hGH (N=104)* n (%)	Genotropin [®] (N=55)* n (%)	
Responder	100 (96.2)	49 (89.1)	
Poor-Responder	4 (3.8)	6 (10.9)	

^{*} Excludes one subject/group with missing Week 52 data (98.8% subjects completed study)



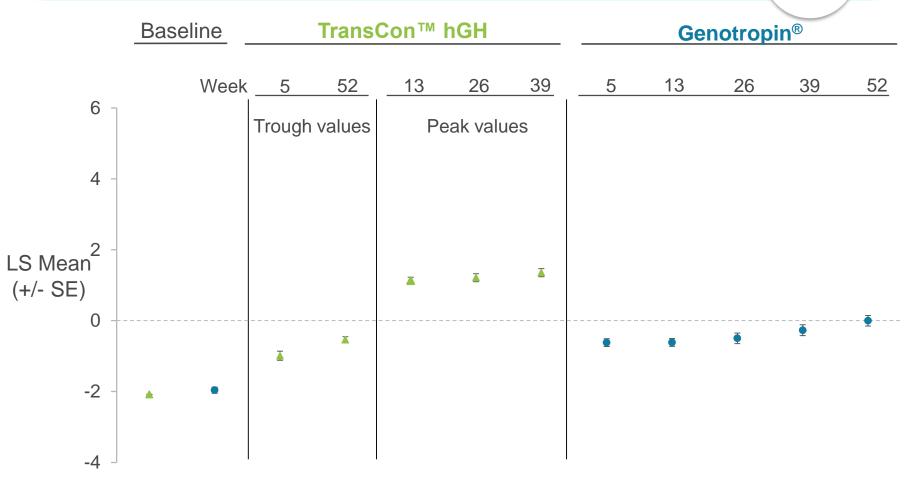
IGF-1 Profile Over 1 Week of Testing





IGF-1 SDS Over 52 Weeks (N = 161)





Estimated mean IGF-1 SDS of +0.4 (average trough to peak) for TransCon™ hGH compared to an approximate average IGF-1 SDS of 0.0 for Genotropin® may reflect the different AHV

Summary of Adverse Events: Safety Population



	TransCon™ hGH N = 105 n (%)	Genotropin [®] N = 56 n (%)	Total N = 161 n (%)
Treatment-emergent Adverse Events (TEAE)	81 (77.1%)	39 (69.6%)	120 (74.5%)
TEAEs Related to Study Drug	12 (11.4%)	10 (17.9%)	22 (13.7%)
Serious Adverse Events (AEs)	1 (1.0%)	1 (1.8%)	2 (1.2%)
Serious AEs Related to Study Drug	0	0	0
TEAEs Leading to Any Action on Study Drug	2 (1.9%)	1 (1.8%)	3 (1.9%)
TEAEs Leading to Discontinuation of Study Drug	0	0	0

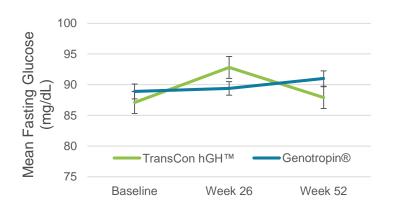
- Adverse events for TransCon[™] hGH consistent with the type and frequency observed with Genotropin[®]
- No serious adverse events related to study drug in either arm
- No treatment-emergent adverse events led to discontinuation of study drug in either arm

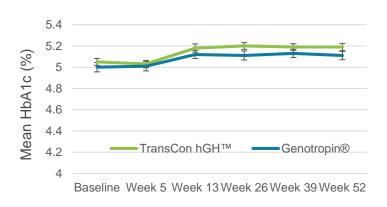


Preliminary Safety Analyses



- No neutralizing antibodies detected, and transient low level (< 10%) of lowtiter non-neutralizing antibodies was similar between the two arms
- Mean fasting glucose and hemoglobin A1c values were stable and within the normal range for both arms





 Two subjects in each treatment arm experienced mild injection site reactions that were considered adverse events



Summary



- AHV was significantly higher (p=0.0088) with TransCon[™] hGH (11.2 cm) compared to daily Genotropin[®] (10.3 cm)
- The incidence of poor responders was ~3x lower in the TransCon hGH arm compared to the daily Genotropin[®] arm
- IGF-1 SDS levels were modestly higher with TransCon[™] hGH than with Genotropin[®], reflecting the higher observed AHV in the TransCon[™] hGH arm
- No neutralizing antibodies were detected, and the low level (<10 percent) of low-titer non-neutralizing antibodies was similar between groups
- No serious adverse events related to study drug and no treatmentemergent adverse events leading to discontinuation of study drug were observed in either arm

Conclusions



- Treatment with TransCon[™] hGH achieved the primary objective of noninferiority in AHV at 52 weeks, and further showed superiority over Genotropin[®]
- AHV was greater for TransCon[™] hGH than for the daily hGH at each visit, with the treatment difference reaching statistical significance at week 26 onward

- IGF-1 SDS scores were generally within the normal range following treatment for both groups
- Safety profile of TransCon[™] hGH was consistent with daily Genotropin[®]

Auto-Injector Designed to Improve Adherence

Key Features

- Simple operation with few user steps
- Single low-volume (<0.60 mL) injection for patients ≤60kg
- Small needle, comparable to daily hGH (31G, 4mm)
- Room temperature storage
- No waste due to empty-all design
- Bluetooth® connectivity enabled for automatic data capture
- Device lifetime at least 4 years



Auto-injector introduction during extension study and for commercial launch



Integrating with a Connected Healthcare Platform

Automated Data Capture of Dose and Injection Time



Data Analysis

TransCon hGH Auto-Injector Improve Adherence
Through Feedback
& Intervention

Secure Cloud-Based Central Database



TransCon hGH: Highlights

- Potential best-in and first-in-class long-acting hGH in pediatric GHD
- CIGHE phase 3 top-line data demonstrated superiority of TransCon hGH
- FIGHE top-line data expected Q2 2019
- Introduction of auto-injector into enlighten Trial expected Q2 2019
- Clinical database lock for filing package expected Q3 2019
- Improving adherence through integrated automatic data capture and connected healthcare system
- Commercial-scale manufacturing and supply chain established
- Multiple patent filings provide potential protection, with auto-injector, into 2038







Hypoparathyroidism: Serious Unmet Medical Need

- Parathyroid hormone (PTH) regulates calcium/phosphate homeostasis
- Hypoparathyroidism (HP) is a rare disease characterized by deficient or absent PTH
 - Low serum calcium, increased serum phosphate and urine calcium levels
 - Most common cause (~75%) is inadvertent removal or damage to parathyroid glands during thyroid surgery
 - Approximately 80,000 patients in the U.S.
- HP results in diverse physical, cognitive, and emotional symptoms with high burden on the healthcare system despite current standard of care
 - 79% require hospitalizations or emergency department visits
 - 4-fold increased risk of renal disease (calcifications and renal insufficiency)



Diverse Clinical Manifestations of HP

Central nervous system

- Seizures
- Calcifications
- · Parkinsonism or dystonia

Cardiovascular system

- · Cardiac arrhythmias
- Hypocalcemia-associated dilated cardiomyopathy

Respiratory system

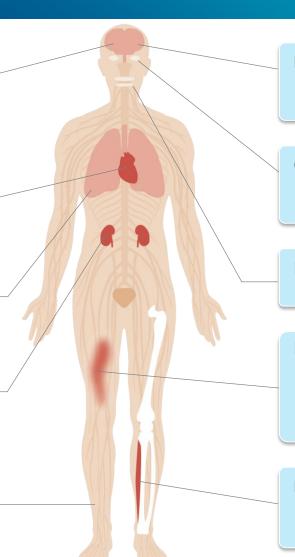
Laryngospasm

Renal system

- Nephrocalcinosis*
- · Kidney stones*
- · Chronic kidney disease*

Peripheral nervous system

- Paresthesia
- Muscle cramps
- Tetany



Neuropsychiatric system

· Anxiety and depression

Ophthalmological system

- Cataracts
- Papilloedema

Dental system

Altered tooth morphology

Dermatological system

- Dry skin
- Onycholysis
- · Coarse, thin hair
- Pustular psoriasis

Musculoskeletal system

- Myopathy
- Spondyloarthropathy





Burden of Illness Despite Treatment: The Patients' View

I am satisfied with the effectiveness of my medications to treat HP

40% strongly disagree

Despite taking my medications as prescribed, I still experience symptoms of HP

58% strongly agree

I am concerned with the long-term complications of my HP medications

75% strongly agree

High burden of illness, despite current standard of care

72% experienced >10 symptoms in preceding 12 months; mean of 13 ± 9 hours/day

85% report inability to perform household activities

20% experienced a disease-related change in employment status



Treatment Contributes to Risk of Renal Disease

4.8-fold

increased risk of renal stones

5.0-fold

increased risk of renal insufficiency

4.3-fold

increased risk of renal disease

Vitamin D & calcium treatment associated with hypercalciuria

31% had renal calcifications (renal stones or nephrocalcinosis)

41% had chronic kidney disease stage 3 or worse (renal insufficiency)



HP Treatment Strategies Are Evolving

- Conventional treatment by calcium and vitamin D can lead to: 1,2
 - Hypocalcemia, hypercalcemia and hypercalciuria (short-term)
 - Impaired renal function and extra skeletal calcifications (long-term)
- Once-daily Natpar®/Natpar® has been approved in the U.S. and Europe as an adjunct to calcium and vitamin D
 - Does not fully address all aspects of the disease, including no benefit on clinical episodes of hypocalcemia or hypercalcemia, or effect on 24-hour urine calcium excretion³

TransCon PTH is designed to address all aspects of the disease by restoring physiological levels of PTH throughout the day



¹ Front. Endocrinol. 2017, 7: 172

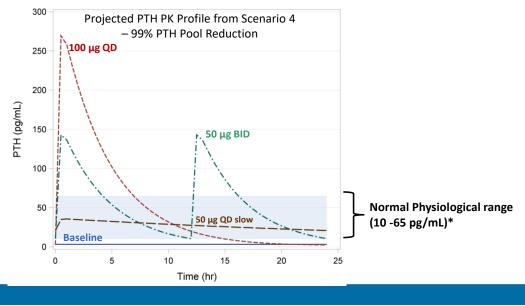
² Nature Reviews 2017. 3: 1-20

³ Natpara/Natpar label

FDA Perspective on Optimal PTH PK Profile1



Altering Regimen (QD to BID) or Release Profile Bring PTH Levels Close to the Physiological Levels



- Natpara QD provides dose-dependent increases in serum calcium for ~24 hours
- Natpara QD effect on urinary calcium excretion is short-lived (10-12 hours) as kidney reabsorption of calcium follows PK profile



Continuous PTH Infusion Led to Improved Outcomes

Desired Treatment Outcomes in HP	Natpara Once-daily ^{1, 2}	PTH (1-34) Infusion ³⁻⁹
Increase serum calcium	✓	✓
Reduce pill burden	✓	✓
Normalize urinary calcium excretion	X	✓
Reduce clinical hypercalcemia	X	✓
Reduce clinical hypocalcemia	X	✓
Normalize serum phosphate	√ (high-normal range)	✓
Normalize bone turnover	X (cortical bone loss)	✓

NIH clinical trials demonstrated superiority of continuous infusion > twice-daily injections > once-daily injections





¹ Natpara Product Label

² J Clin Endocrinol Metab 2016, 101(7): 2742-2750

³ JAMA 1996, 276(8): 631-636

⁴ J Clin Endocrinol Metab 1998, 83(10): 3480-3486

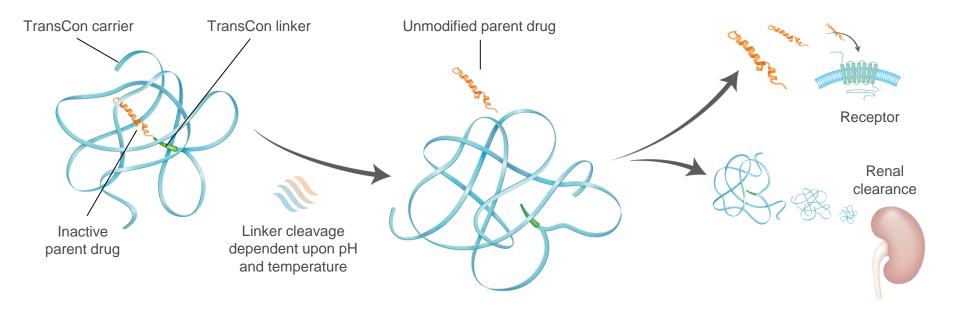
⁵ J Clin Endocrinol Metab 2003, 88(9): 4214-4220

⁶ J Clin Endocrinol Metab 2008, 93(9): 3389-3395

⁷ J Clin Endocrinol Metab 2011, 96(11): 3308-3312

 ⁸ J Clin Endocrinol Metab 2012, 97(2): 391–399
 ⁹ J Pediatr 2014, 165(3): 556-563

TransCon PTH Design

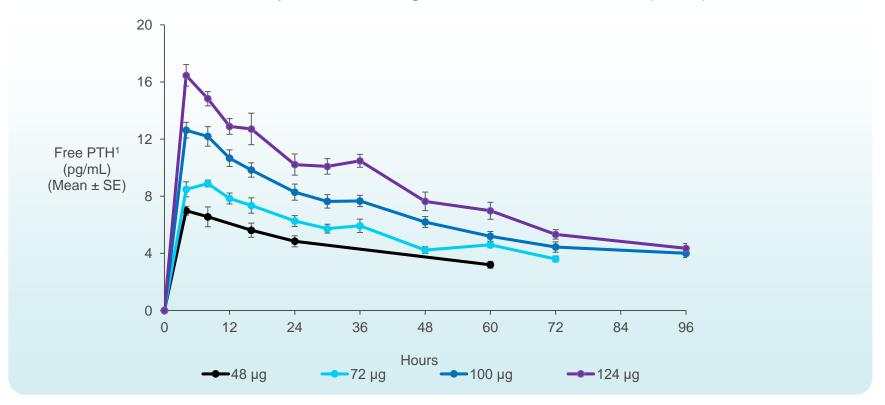


- TransCon PTH is a sustained-release prodrug designed to provide stable
 PTH levels in the physiological range for 24 hours/day
- TransCon PTH designed to normalize blood and urinary calcium levels, serum phosphate and bone turnover



Single Dose PK Data Support Infusion-Like Profile with Daily Administration

Free PTH Exposure After Single Doses of TransCon PTH (n=4-8)

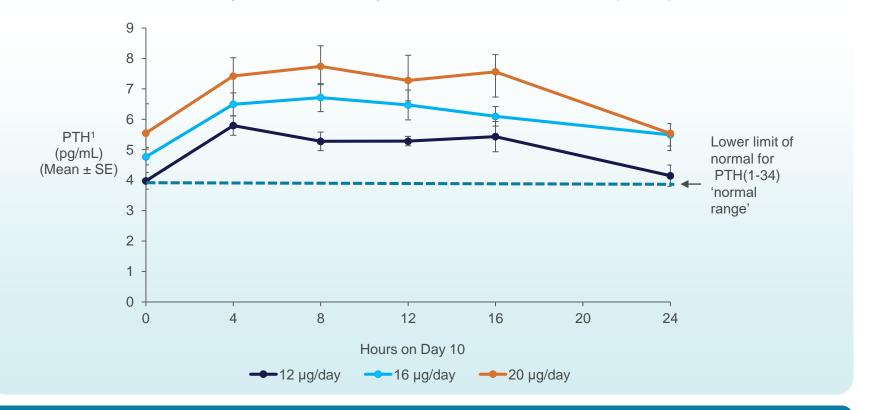


TransCon PTH phase 1 data reproduced PK profile from preclinical studies and showed $t_{1/2}$ of ~60 hours (versus Natpara $t_{1/2}$ ~3 hours)



PK Data Support Infusion-like Profile over 24 Hours

PTH Exposure After Multiple Doses of TransCon PTH (n=7-8)

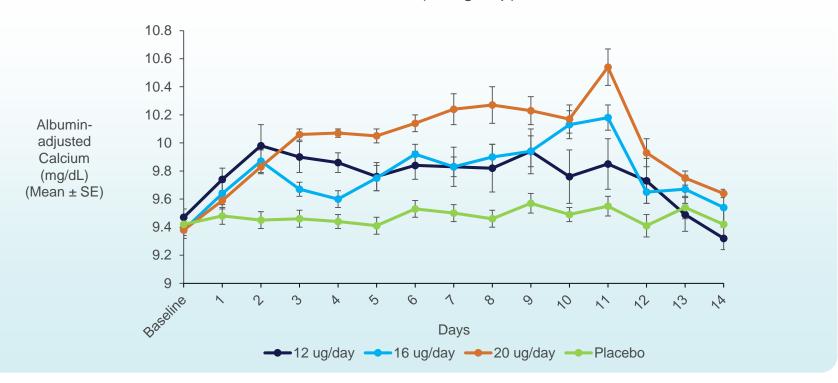


TransCon PTH daily dosing for 10 days provided a flat infusion-like profile with low PTH peak-to-trough ratio at day 10



Multiple Doses Provided Dose-Dependent Increase of Serum Calcium

Change in Albumin-adjusted Serum Calcium over 10 Days of TransCon PTH (n=8/group)

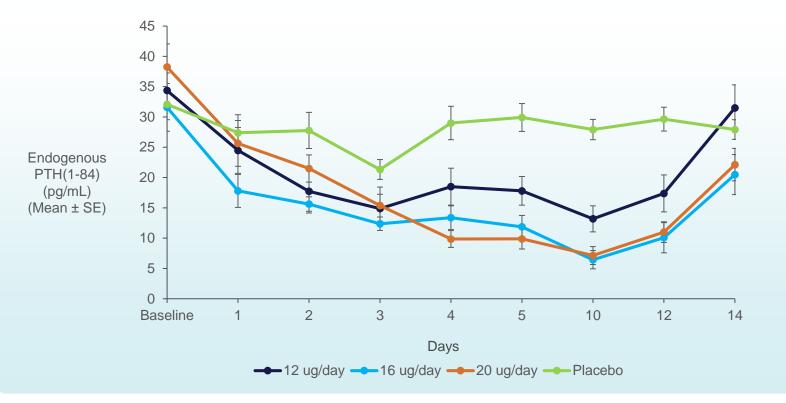


TransCon PTH daily dosing for 10 days provided dose-dependent increase of serum calcium



Multiple Doses Provided Dose-Dependent Suppression of Endogenous PTH(1-84)

Suppression of PTH(1-84) over 10 Days of TransCon PTH (n=8/group)

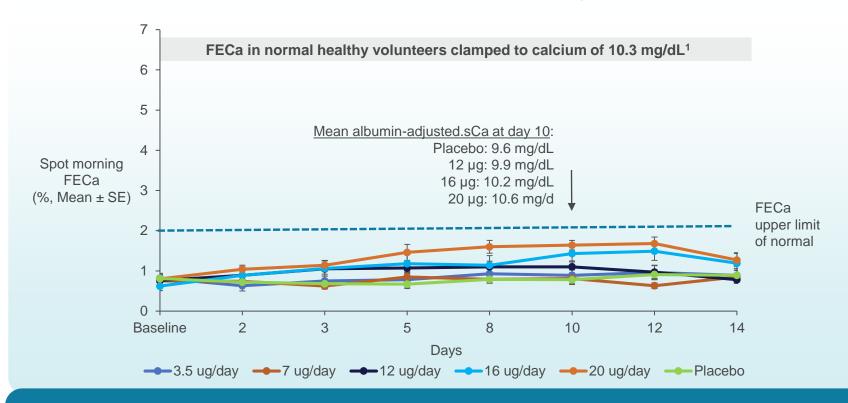


TransCon PTH daily dosing for 10 days provided dose-dependent down regulation of endogenous PTH(1-84)



Control of Urinary Calcium with Multiple Doses

Spot FECa with daily doses of TransCon PTH (n=8/group) for 10 days



Despite serum Ca at 11 mg/dL, fractional calcium excretion remained normal and below 6.5% range reported for healthy volunteers clamped to serum Ca of 10.3 mg/dL², reflecting potent renal Ca reabsorption

Preliminary analyses from phase 1 trial.



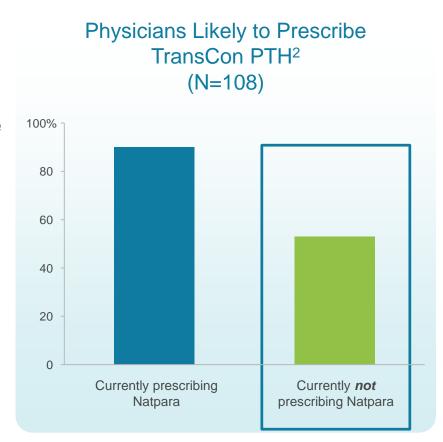


¹ J Bone Miner Res 2011, 26(9): 2287-2297

² J Clin Endocrinol Metab 2001, 86(4): 1525-1531

Market Research Validates Unmet Medical Need for TransCon PTH

- Market research with 108 U.S. endocrinologists treating HP¹
 - Variety of clinical settings, geographies, patient volumes, disease severity, and short-acting PTH use
- Endocrinologists' views on current short-acting PTH:
 - Reduces hypocalcemia, improves quality of life, reduces pill burden
 - Remaining unmet medical needs:
 - Providing true replacement therapy
 - Reducing hypercalciuria



Confirms TransCon PTH target product profile as a true replacement therapy and reinforces significant unmet need



TransCon PTH: Highlights

- Phase 1 data support TransCon PTH as a true replacement therapy for HP
- Phase 2 trial initiated in adult HP subjects
 - Randomized placebo-controlled study for approximately four weeks with fixed TransCon PTH doses and titration regimen for complete withdrawal of SoC (i.e., active vitamin D and calcium supplements)
 - Validation of disease-specific patient-reported outcomes for use in phase 3 trial
 - Introduction of ready-to-use prefilled pen device in the phase 2 trial
 - Subjects from phase 2 trial expected to enter into a long-term extension trial
- Phase 2 top-line data expected Q4 2019
- Global regulatory discussions to incorporate Asian territories into phase 3 trial
- Multiple patent concepts provide potential protection into 2037







TransCon CNP:
Once-Weekly CNP for
Achondroplasia

Achondroplasia – Not Only a Skeletal Disease

Autosomal dominant genetic disorder

- Most common form of human dwarfism
- Approximately 250,000 patients worldwide¹
- 80% born to average-sized parents

Patients suffer numerous comorbidities

- Back/spine/cord compression
- Cardiovascular complications
- Dental complications

- Ear infections/sleep apnea
- Obesity
- Bowed legs

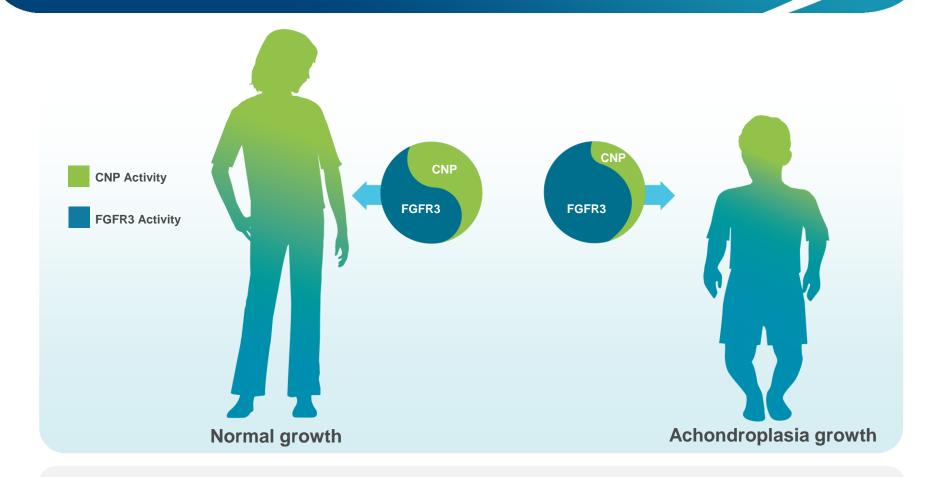
No FDA-approved therapy

 Only option to improve height is surgical limb lengthening





Balanced Growth Depends on Balanced Pathways



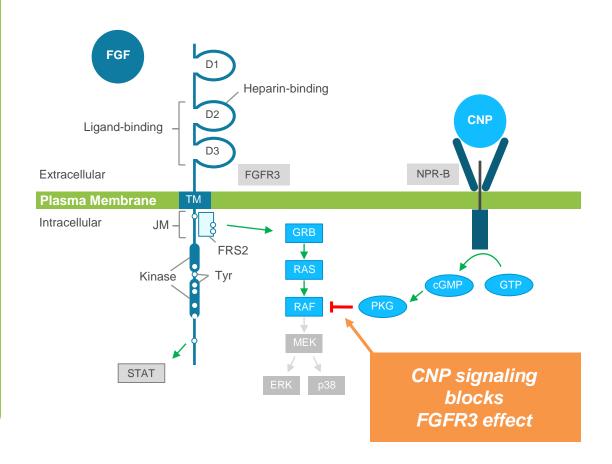
TransCon CNP is designed to provide continuous exposure to CNP to optimize efficacy with a well-tolerated and convenient once-weekly dose



Achondroplasia Signaling Defect is Well Understood

- FGFR3 negatively regulates chondrocyte proliferation and differentiation and hence bone growth
- Achondroplasia results from a mutation in FGFR3 which leaves the receptor constitutively activated
- CNP inhibits the FGFR3
 pathway and thereby
 promotes proliferation
 and differentiation of
 chondrocytes to restore
 bone growth

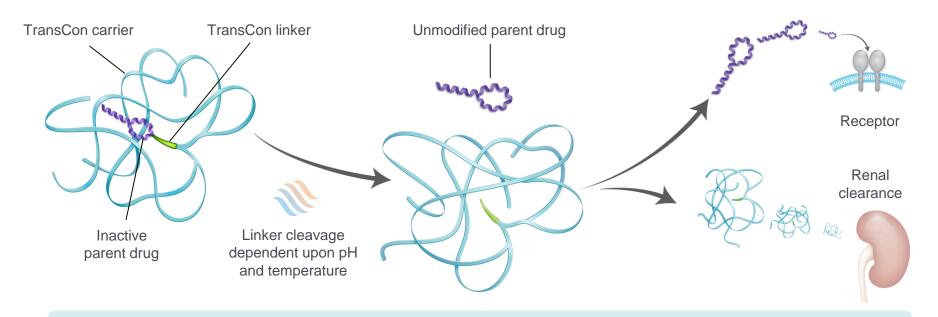
FGFR3 Signaling Pathway¹





Not for use in promotion.

TransCon CNP Design

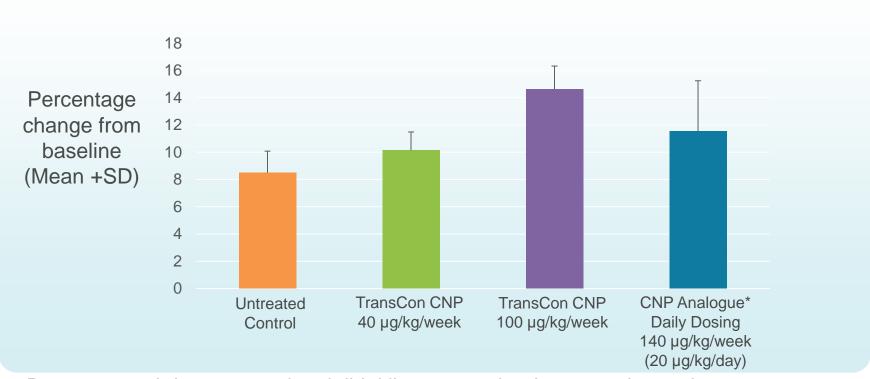


- TransCon technology provides effective shielding of CNP:
 - From neutral endopeptidase degradation in subcutaneous tissue and blood compartment
 - Minimize binding of TransCon CNP to the NPR-C clearance receptor
 - Reduce binding of TransCon CNP to the NPR-B receptor in vasculature to avoid hypotension
- Unmodified CNP liberated from TransCon CNP maintains small enough size to allow penetration into growth plates



Juvenile Healthy Monkey Growth Study

Tibial growth at 6 months (n=4/group)¹



- Demonstrated dose-proportional tibial linear growth; ulnar growth consistent
- Compared to untreated control, growth increased >70% with highest TransCon CNP dose vs. 35% with CNP analogue* at a higher weekly dose



¹ Poster presented at ENDO 2017 and company data

^{*} Refers to a synthesized molecule with a half-life of ~20 mins prepared by Ascendis Pharma

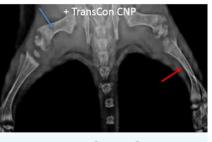
TransCon CNP in Achondroplasia Disease Model (Fgfr3^{Y367C/+})1

Linear and Skeletal Growth in Achondroplasia Mice

TransCon CNP reversed the phenotype, restoring growth



TransCon CNP/ Vehicle



TransCon CNP

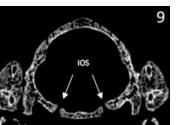


Vehicle

Preventing Premature Fusion of Synchondroses of Foramen Magnum

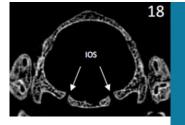
TransCon CNP may ameliorate most disabling achondroplasia traits, including stenosis of the foramen magnum

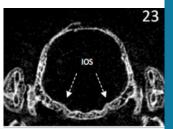






TransCon CNP







Vehicle



TransCon CNP: Phase 1 Trial

A Phase 1, Double-Blind, Randomized, Placebo-Controlled, Dose Escalation Trial Evaluating Safety, Tolerability and Pharmacokinetics of Subcutaneous Single Doses of TransCon CNP in Healthy Adult Male Subjects



Phase 1 Trial Design

45 healthy adult male subjects enrolled at two study centers in Australia TransCon CNP vs. placebo (4:1 randomization)

Each dose tested sequentially starting at lowest dose¹ Up to 10 subjects randomized in each dose cohort in a blinded manner

3.0 μg/kg 10 μg/kg 25 μg/kg 75 μg/kg 150 μg/kg

Data Safety Monitoring Board (DSMB) reviews blinded data after each dose cohort and approves escalation to next dose

Dosing assignments unblinded after DSMB review

Primary Endpoint

Frequency of adverse events (AEs) reported after administration of TransCon CNP

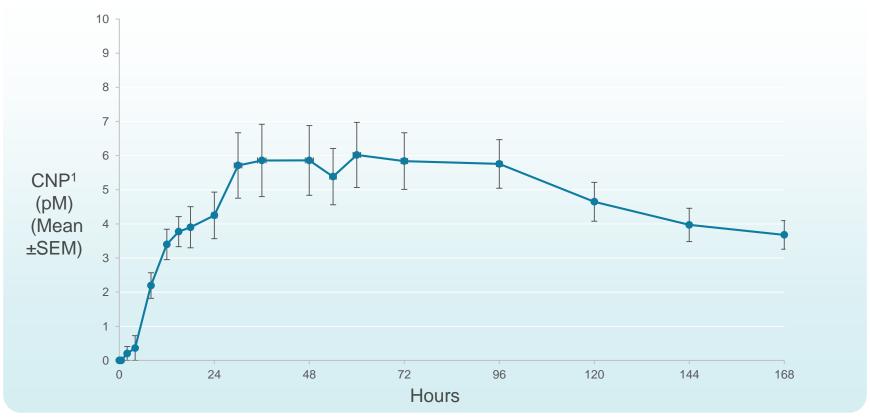
Secondary/Exploratory Endpoints

- Safety parameters and local tolerability assessment
- Pharmacokinetic parameters
- Other exploratory endpoints



Sustained CNP Exposure Over One Week





A single dose of TransCon CNP provided continuous CNP exposure over the entire week with low inter-subject variability

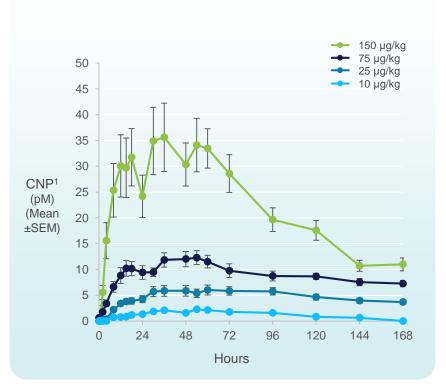


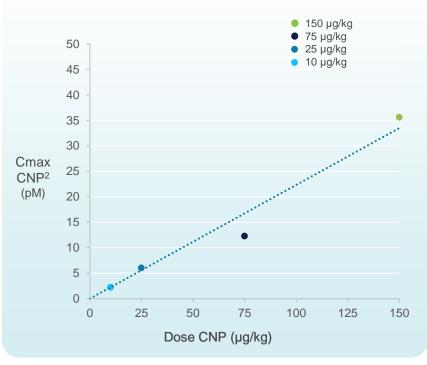
All product candidates are investigational.

Not for use in promotion.

Dose-related Increase in CNP Exposure

TransCon CNP 10, 25, 75 and 150 μg/kg (n=5-8/group)

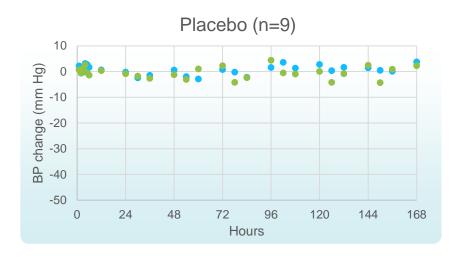


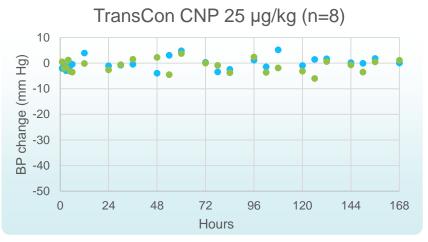


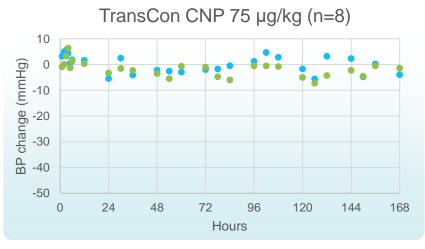
- Dose-related increase in CNP exposure suggests ability to titrate dosing
- Phase 1 showed effective CNP $t_{1/2}$ of ~ 90 hours (native CNP $t_{1/2}$ of 2-3 minutes)

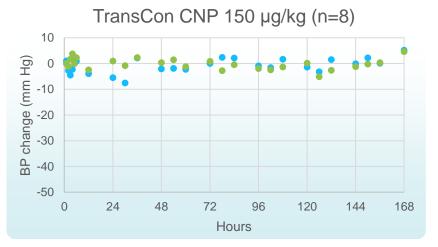


Mean Resting Blood Pressure Unchanged from Predose¹







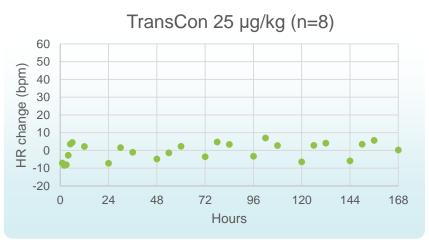


Change in systolic blood pressure Change in diastolic blood pressure



Mean Resting Heart Rate Unchanged from Predose¹





TransCon CNP 75 µg/kg (n=8)



TransCon 150 µg/kg (n=8)







Well-tolerated Safety Profile

- No serious AEs were reported in the trial
- TransCon CNP was generally well tolerated at doses up to 150 μg/kg
- Mean resting blood pressure and heart rate were unchanged from predose at all time points, in all cohorts
- Mean orthostatic changes in vital signs appear unrelated to TransCon CNP exposure; consistent between placebo and TransCon CNP cohorts
- Injections were well tolerated in all dose cohorts; no reported injection AEs



TransCon CNP: Highlights

- TransCon CNP phase 1 data reproduced PK profile and cardiovascular safety from preclinical studies
- Provided continuous CNP exposure over seven days with a single subcutaneous administration, supporting once-weekly dosing
 - Continuous CNP exposure at target levels is important for balancing the CNP/FGFR3 pathways and normalizing growth
- Generally well tolerated across all cohorts
- Potential for a significant impact on patients' lives, not only affecting height but also addressing many comorbidities associated with achondroplasia
- Phase 2 initiation expected Q3 2019
- Multiple patent concepts provide potential protection into 2037







Vision 20/20: Established the Foundation for a Leading Rare Disease Company

Clinical validation of 3 product candidates in endocrinology rare disease

TransCon hGH

- ✓ Advance our pipeline of three endocrinology rare disease product candidates towards approval
- ✓ Create a leading integrated commercial business primarily focused on the U.S. market with best-in-class products
- ✓ Identify a new rare disease therapeutic area with highvalue product opportunities

TransCon



TransCon

Vision 3x3: Strategic Roadmap to 2025

Our Goal is to Achieve Sustainable Growth through Multiple Approaches

- Obtain regulatory approval for 3 Endocrinology Rare Disease products
 - TransCon hGH for pediatric growth hormone deficiency
 - TransCon PTH for adult hypoparathyroidism
 - TransCon CNP for achondroplasia
- Growth of Endocrinology Rare Disease pipeline through:
 - Label expansion programs with the goal of obtaining 9 indications in total
 - Global clinical reach direct or through partnerships
- Build an integrated commercial business for our Endocrinology Rare Disease franchise in North America and select European countries
 - Establish global commercial presence with partners outside our geographic areas
- Create 3 independent therapeutic areas each with a diversified pipeline built on TransCon technologies and our unique algorithm for product innovation
 - Established oncology as next independent therapeutic area



Extending Global Footprint: VISEN Pharmaceuticals

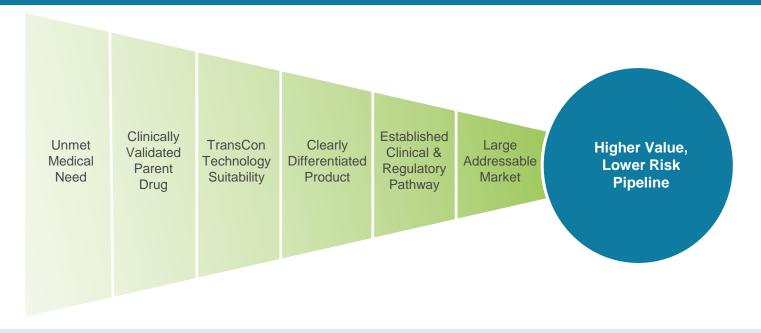
- Develop and commercialize TransCon hGH, TransCon PTH and TransCon CNP in Greater China
 - Right of negotiation on certain other endocrinology product candidates in Greater China¹
 - Led by Pony Lu, an experienced Takeda executive in charge of Greater China
- Overview
 - Vivo Capital and Sofinnova Ventures invested \$40 million
 - Visen responsible for all development, manufacturing and commercialization costs in Greater China; Ascendis will be reimbursed for clinical trial materials and technical support
 - Strengthens Ascendis global development strategy, increasing potential reach of clinical trials for rare diseases into China
 - Potentially significant upside through 50% equity ownership
 - Governance established through ownership, shareholder protections, board membership, joint development committee and separate licensing and supply agreements

Partnership with experienced investors builds presence in second largest pharmaceutical market in the world and expands rare disease clinical programs



Why Oncology?

Checks all the boxes of the Ascendis product innovation algorithm



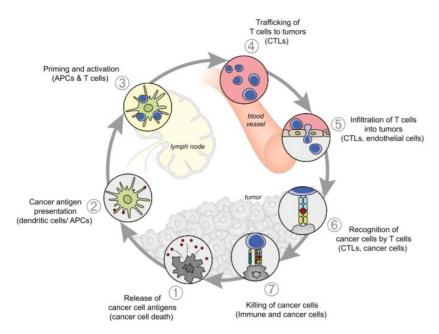
Both TransCon technologies well suited for Oncology:

- Sustained Systemic Delivery:
 Designed to provide predictable continuous exposure to increase efficacy and reduce toxicity
- Sustained Localized Delivery:
 Designed to maximize intratumoral (IT) exposure while minimizing systemic toxicity



Oncology Pipeline Strategy

- Impact all aspects of the Cancer Immunity Cycle
 - Stimulators of innate immunity
 - Stimulators of adaptive immunity
 - Modulators of tumor microenvironment



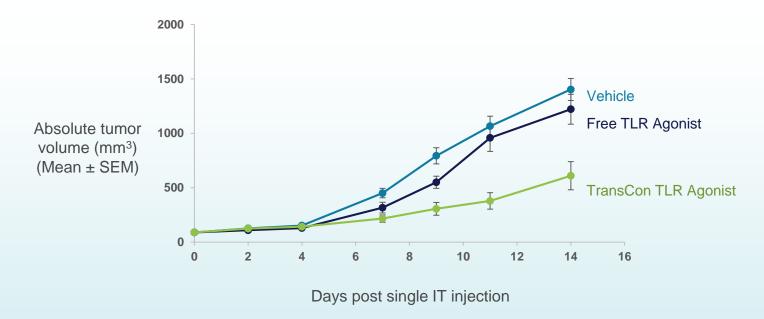
From Chen & Mellman, Immunity, 2013

Goal to create at least 3 best-in-class candidates from validated parent drugs – each addressing different aspects of the Cancer Immunity Cycle



In Vivo Sustained Localized Delivery Proof-of-Concept

- Single IT injection of TransCon TLR Agonist demonstrated superiority to equal IT dose of free TLR Agonist in a syngeneic mouse colon-derived tumor model
 - TransCon TLR Agonist was well tolerated and had no effect on body weights



 Sustained localized IT delivery in vivo demonstrated potential best-in-class product profile and foundation to expand to other targets



Selected 2019 Expected Milestones

