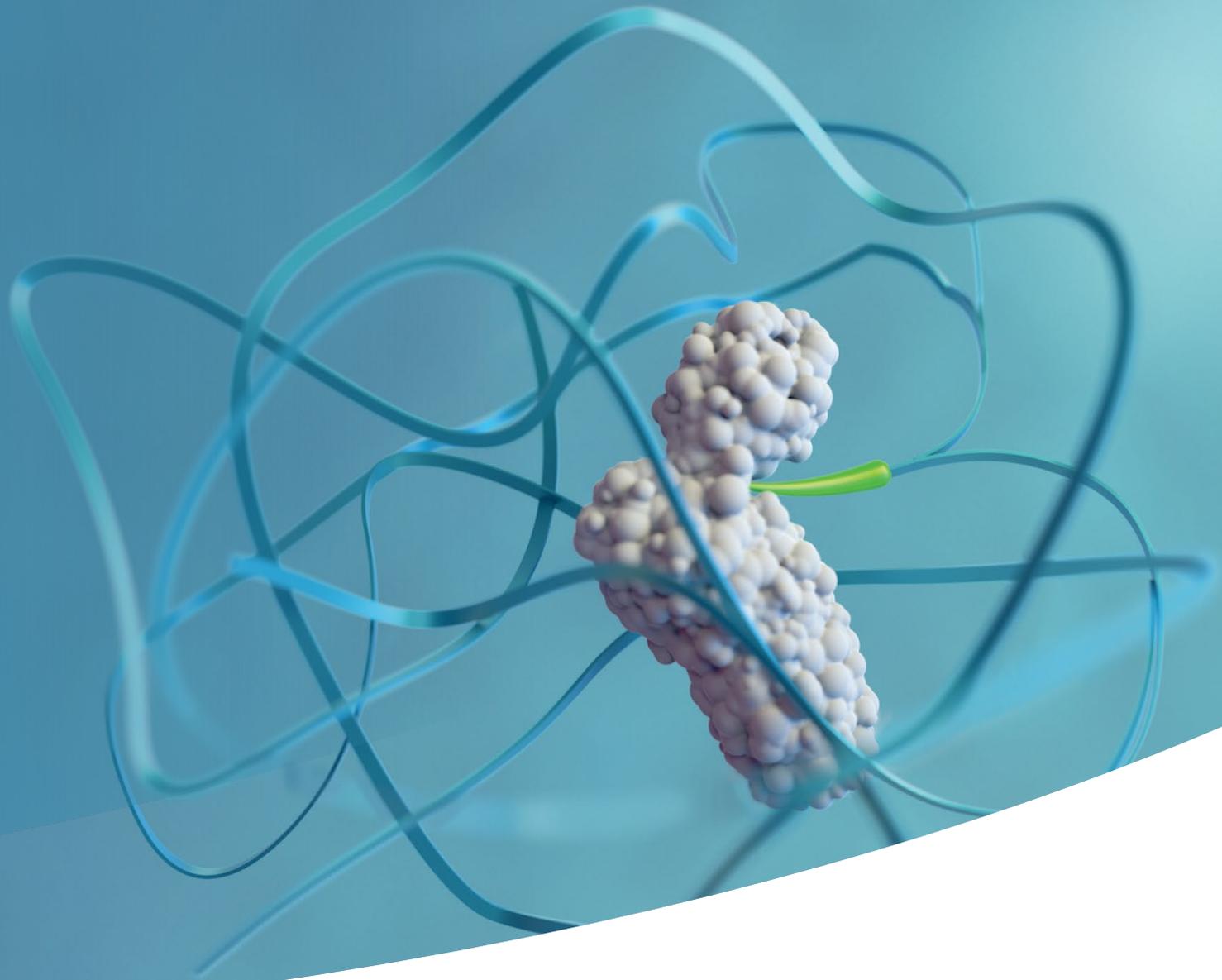


# Ascendis Pharma A/S

52-Week Bone Morphometry Results  
ApproaCH Clinical Trial



# Cautionary Note on Forward-Looking Statements

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# Achondroplasia: A Skeletal Dysplasia with Orthopaedic Complications

The pathogenic *FGFR3* variants of achondroplasia result in skeletal abnormalities beyond short stature, which are associated with pain, impaired physical functioning, orthopaedic surgeries and reduced HRQoL<sup>1-5</sup>

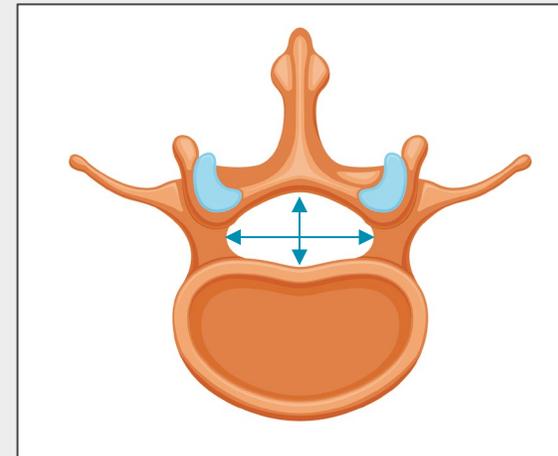
### Genu Varum



### Kyphosis/Lordosis



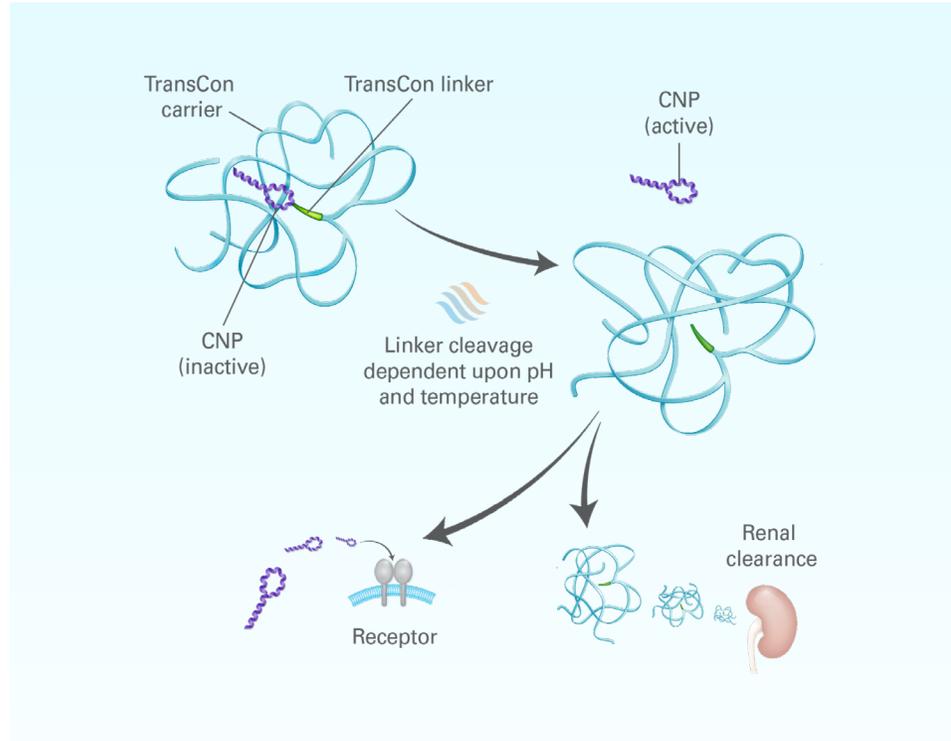
### Spinal Stenosis



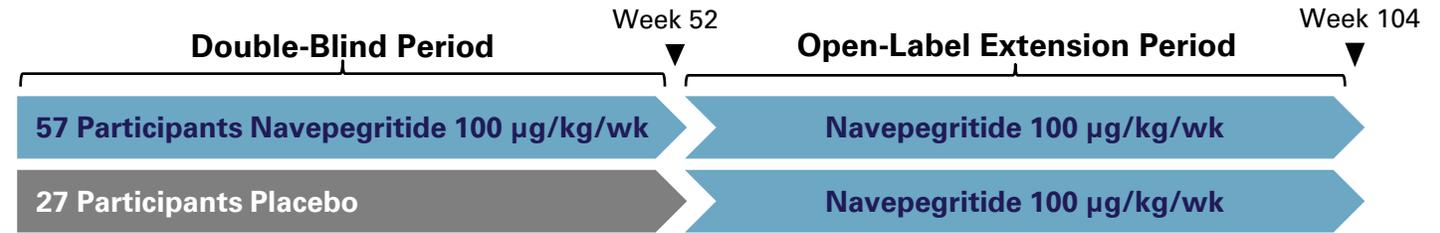
The goal of this study was to determine whether navepegritide improved not only linear growth, but also orthopaedic parameters associated with the underlying skeletal dysplasia

1. Hunter AG, et al. *J Med Genet.* 1998;35(9):705-712. 2. Matsushita M, et al. *Calcif. Tissue Int.* 2019;104(4):364-372. 3. Savarirayan R, et al. *Nat Rev Endocrinol.* 2022;18(3):173-89. 4. Murton MC, et al. *Adv Ther.* 2023;40(9):3639-80. 5. Nahm NJ, et al. *Orphanet J Rare Dis.* 2023;18(1):139.

# Navepegritide and ApproaCH Pivotal Trial Design



Navepegritide is an investigational prodrug of C-type natriuretic peptide (CNP), administered once-weekly and designed to provide continuous exposure to active CNP<sup>1</sup>



**84** participants with achondroplasia (age 2-11y), randomized 2:1

## Primary Endpoint

- Annualized growth velocity (AGV) at Week 52

## Safety Endpoints

- Incidence of treatment emergent adverse events (TEAEs)

## Exploratory Endpoints

- **Change from baseline in bone morphometric parameters of the spine and lower extremity as assessed by X-ray**

## Countries

- US, Canada, Denmark, Ireland, Spain, Australia, New Zealand

# ApproaCH Baseline Characteristics

Full Analysis Set	Navepegritide (n=57)	Placebo (n=27)	Overall (N=84)
Age (years), mean (SD)	5.6 (2.6)	6.0 (2.7)	5.7 (2.6)
Sex, n (%)			
Female	26 (45.6)	13 (48.1)	39 (46.4)
Male	31 (54.4)	14 (51.9)	45 (53.6)
Height (cm), mean (SD)	88.9 (12.9)	89.1 (11.5)	89.0 (12.4)
ACH-specific height Z-score, mean (SD)	0.18 (0.92)	-0.11 (0.73)	0.09 (0.87)
CDC height Z-score, mean (SD)	-4.90 (0.98)	-5.21 (0.93)	-5.00 (0.97)
AGV (cm/year), mean (SD)	4.0 (1.9)	3.8 (2.0)	3.9 (1.9)

Trial population was balanced between treatment arms, and representative of children with achondroplasia

ACH, achondroplasia; AGV, annualized growth velocity; CDC, Centers for Disease Control and Prevention

# Orthopaedic Measurement on Standing Lower Limb X-Rays

## Alignment

### TFA:

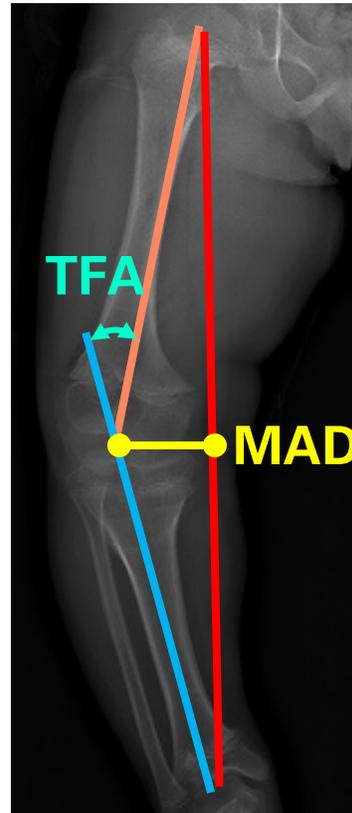
#### Tibia-Femoral Angle

Angle between the mechanical axes of the femur and the tibia

### MAD:

#### Mechanical axis deviation

Distance from the center of the knee to a line drawn from the center of the femoral head to the ankle (*mechanical axis of the leg*)



## Proportionality



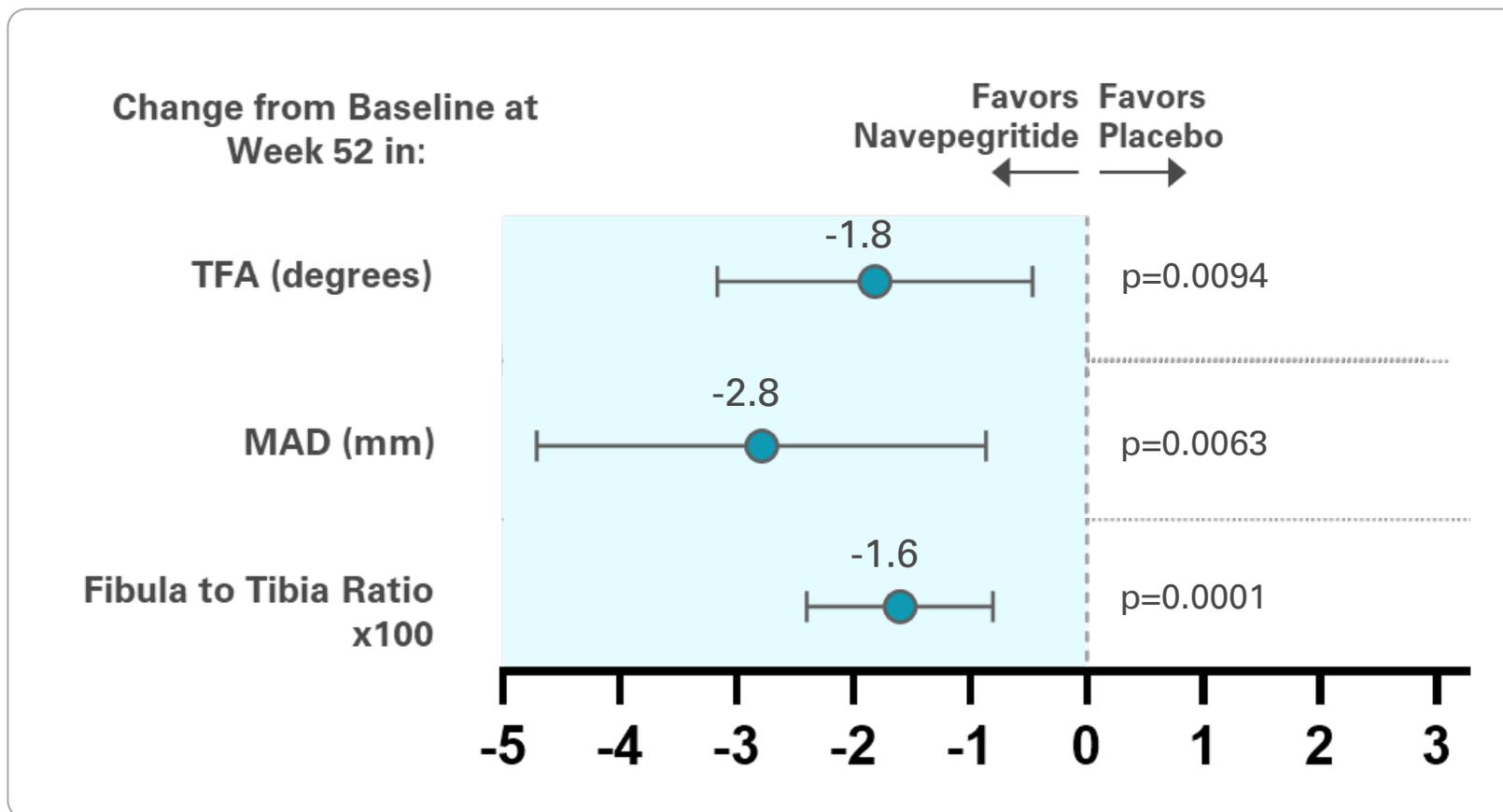
Fibular “overgrowth” is a key contributor to the progression of leg curvature

### Fib/Tib:

#### Fibula to Tibia Ratio

Ratio of fibula length to tibia length

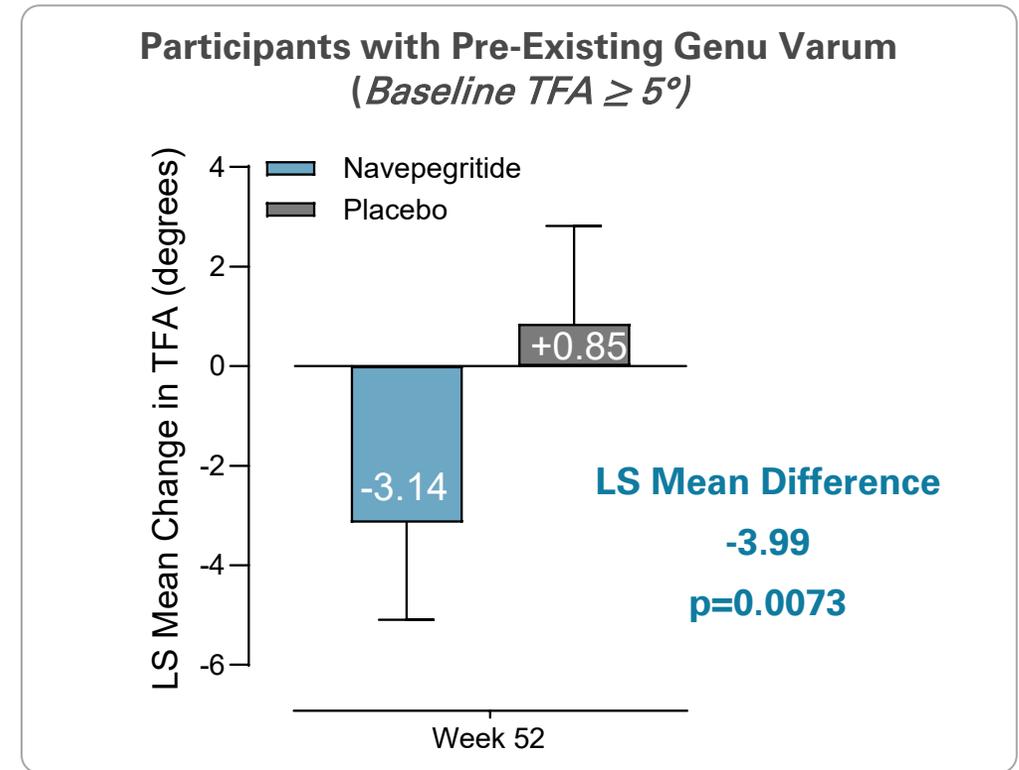
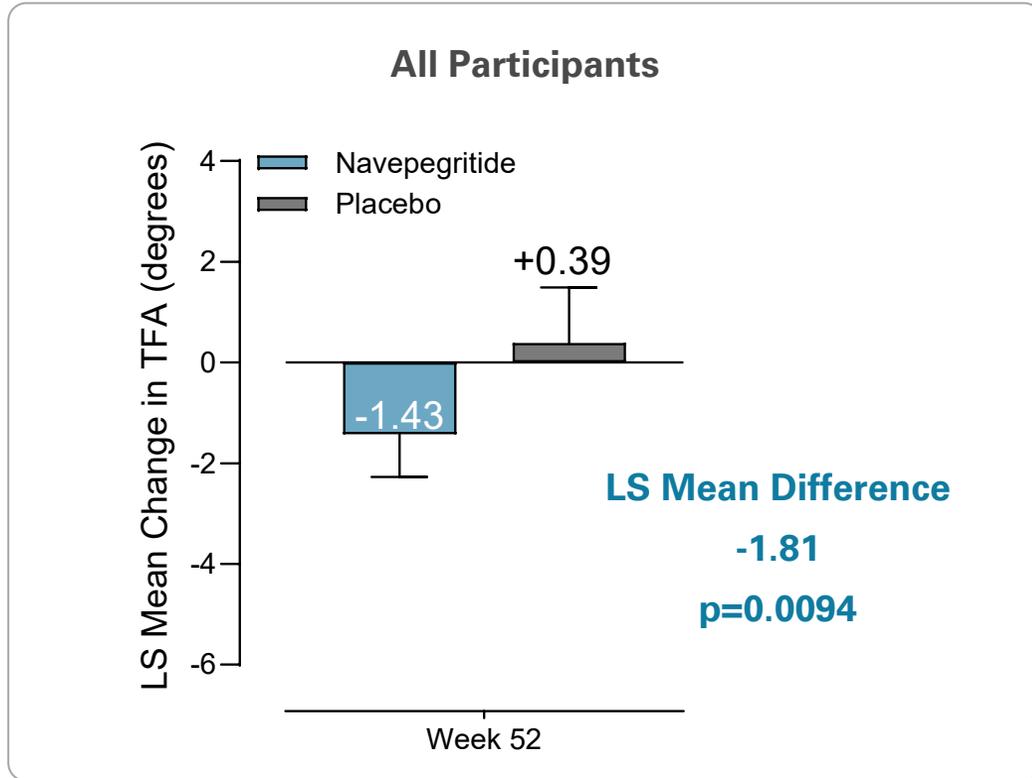
# Navepegritide Improved Lower Extremity Alignment and Proportional Growth



Notes: Figure shows TFA, calibrated data of MAD and uncalibrated data of fibula to tibia ratio. Blue dot indicates LS mean difference between navepegritide 100 µg/kg/week and placebo; error bar indicates 95% CI. ANCOVA model included treatment, stratification factor, baseline age and baseline value as covariates.

ANCOVA, Analysis of covariance; CI, confidence interval; LS, least squares; MAD, mechanical axis deviation; TFA, Tibia-femoral angle

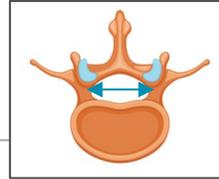
# Greater Improvements in Lower Extremity Alignment with Navepegritide in Participants with Genu Varum at Baseline



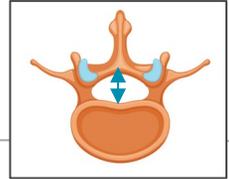
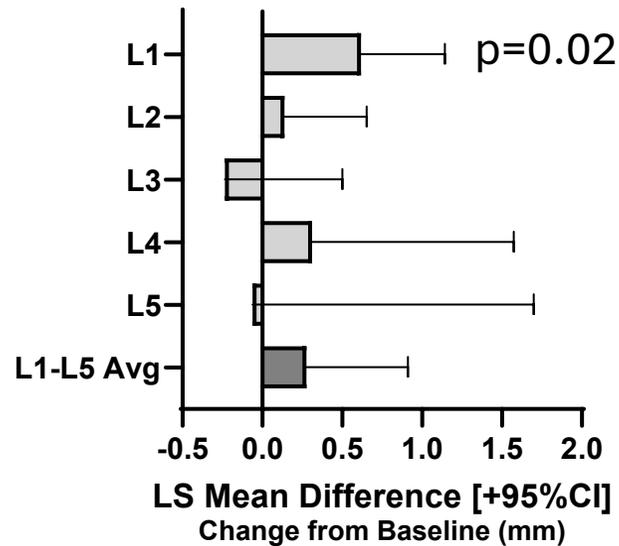
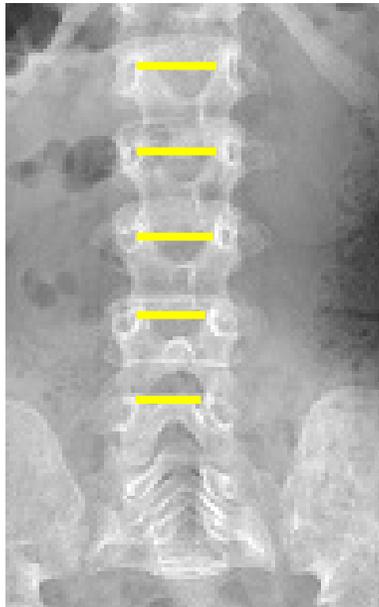
Greater benefits observed in participants with genu varum  $\geq 5^\circ$  at baseline

Error bars indicate 95% CI. CI, confidence interval; LS, least squares; TFA, Tibia-femoral angle

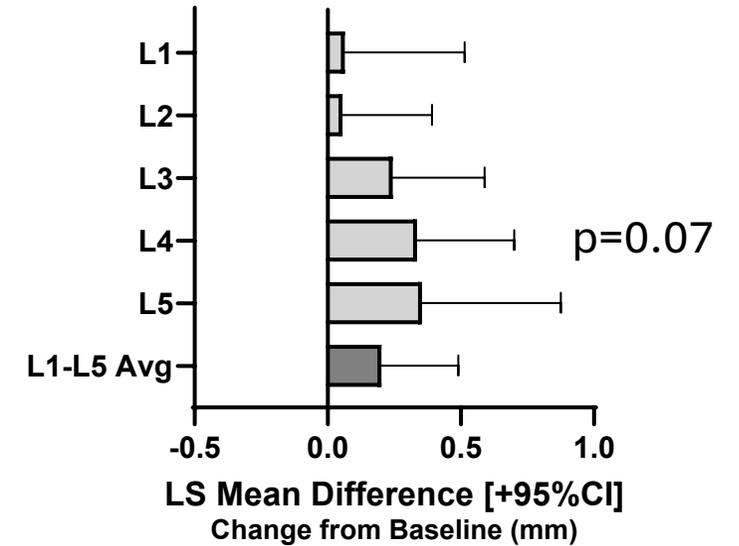
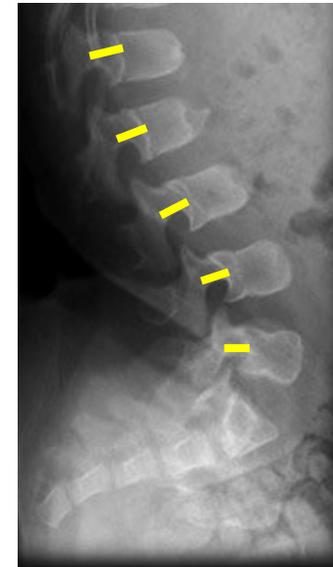
# Navepegritide Improved Spinal Canal Dimensions vs Placebo at Week 52



## Interpedicular Distance (IPD)



## Pedicle Width (PW)



Greater expansion of the spinal canal was in line with the observed increase in linear growth

Error bars indicate 95% CI. CI, confidence interval; LS, Least squares

# Navepegritide Showed a Safety and Tolerability Profile Comparable to Placebo

	Navepegritide (n=57)	Placebo (n=27)
<b>Any Treatment-emergent Adverse Event, n (%)</b>	52 (91.2)	26 (96.3)
<b>Adverse Events <math>\geq</math>15% in either treatment group, n (%)</b>		
Pyrexia	20 (35.1)	6 (22.2)
Nasopharyngitis	18 (31.6)	10 (37.0)
Otitis media	14 (24.6)	7 (25.9)
Upper respiratory tract infection	11 (19.3)	3 (11.1)
Vomiting	11 (19.3)	3 (11.1)
Headache	10 (17.5)	3 (11.1)
<b>Serious Adverse Events (SAE), n (%)</b>	3 (5.3)	3 (11.1)
<b>Treatment-Related Adverse Events, n (%)</b>	12 (21.1)	7 (25.9)
<b>Treatment-Related Serious Adverse Events</b>	0	0
<b>Injection site reaction (ISR), n (%)</b>	11 (19.3)	4 (14.8)
ISR events per Patient Year of Exposure	0.41	0.15
<b>Mean change in bone/chronological age ratio</b>	0.000	-0.013

- Treatment with navepegritide showed:
- very few occurrences of ISRs
  - no treatment-related SAEs
  - no cases of symptomatic hypotension
  - no accelerated bone age or fracture
  - no cases of osteonecrosis or SCFE

Safety analysis set; summary is based on double-blind period  
 AE, adverse event; ISR, injection site reaction; SAE, serious AE; SCFE, Slipped capital femoral epiphysis

# Summary and Conclusions: The ApproaCH Trial

- Navepegritide demonstrated superiority over placebo in **AGV** at week 52, with a **safety and tolerability profile comparable to placebo**
- Navepegritide improved aspects of bone morphometry at week 52, including **improvement in lower limb alignment and increasing spinal canal dimensions**

By changing the trajectory of skeletal dysplasia, navepegritide has the potential to reduce future complications due to lower limb malalignment and spinal stenosis, such as pain, impaired mobility, and need for surgery

AGV, Annualized Growth Velocity