

Improvements in Lower Extremity Alignment are Associated with Physical Functioning in Children With Achondroplasia Treated With Navepegritide: 52-Week Results From the ApproaCH Trial

Leanne M Ward^{1,2}, Daniel G. Hoernschemeyer³, Janet M. Legare⁴, Hanne B. Hove⁵, Carlos A. Bacino⁶, Philippe M. Campeau⁷, Paul L. Hofman⁸, Josep Maria de Bergua Domingo⁹, M Jennifer Abuzzahab¹⁰, Kevin Smit^{11,12}, Sasha Carsen^{12,13}, Andrew Tice^{12,13}, Stefan A. Jackowski¹⁴, Maya Scharke¹⁴, Meng Mao¹⁵, Lærke Clement Freiberg¹⁶, Michael A. Makara¹⁵, Michael S Ominsky¹⁷, Aimee D Shu¹⁷, Ravi Savarirayan^{18,19,20} and Ciara M McDonnell^{21,22}

¹Children's Hospital of Eastern Ontario, University of Ottawa, Canada, ²University of Ottawa, Ottawa, ON, Canada, ³University of Missouri Children's Hospital, Columbia, MO, ⁴University of Wisconsin School of Medicine and Public Health, Madison, WI, ⁵Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark, ⁶Baylor College of Medicine, Houston, TX, ⁷CHU Sainte-Justine Research Center, Montreal, Canada, ⁸The Liggins Institute, University of Auckland, Auckland, New Zealand, ⁹Unidad de Cirugía Artroscópica, Vithas Vitoria Hospital, Vitoria-Gasteiz, Spain, ¹⁰Children's Minnesota, Minneapolis, MN, ¹¹Department of Surgery, Division of Pediatric Orthopedics, Children's Hospital of Eastern Ontario, University of Ottawa, Canada, ¹²University of Ottawa, Ottawa, ON, Canada, ¹³Children's Hospital of Eastern Ontario Research Institute, Ottawa, ON, Canada, ¹⁴The Ottawa Pediatric Bone Health Research Group, Children's Hospital of Eastern Ontario Research Institute, Canada, ¹⁵Ascendis Pharma Inc., Palo Alto, CA, ¹⁶Ascendis Pharma A/S, Hellerup, Denmark, ¹⁷Ascendis Pharma Inc, Palo Alto, CA, ¹⁸Murdoch Children's Research Institute, Parkville, Australia, ¹⁹Royal Children's Hospital, Parkville, Australia, ²⁰University of Melbourne, Parkville, Australia, ²¹Children's Health Ireland at Temple Street, Dublin, Ireland, ²²University of Dublin, Trinity College, Dublin, Ireland

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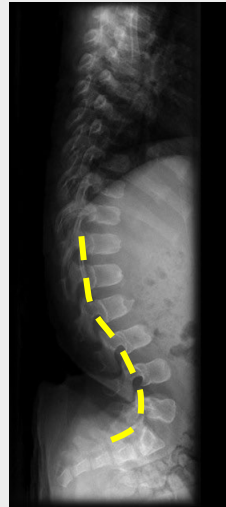
Achondroplasia: a skeletal dysplasia with orthopedic complications

The pathogenic *FGFR3* variants of achondroplasia result in skeletal abnormalities beyond short stature, which are associated with pain, impaired physical functioning, orthopedic surgeries, and reduced HRQoL¹⁻⁵

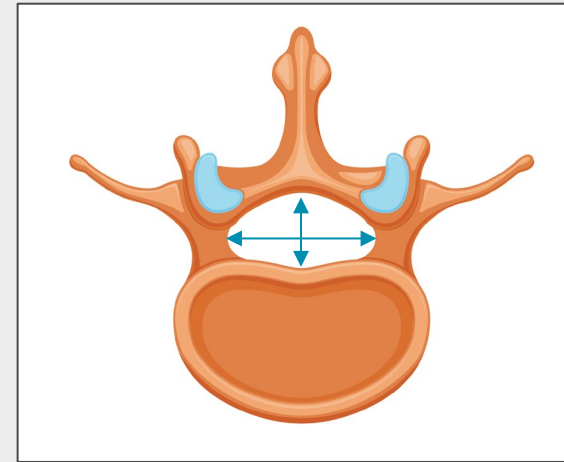
Genu Varum



Kyphosis/Lordosis



Spinal Stenosis

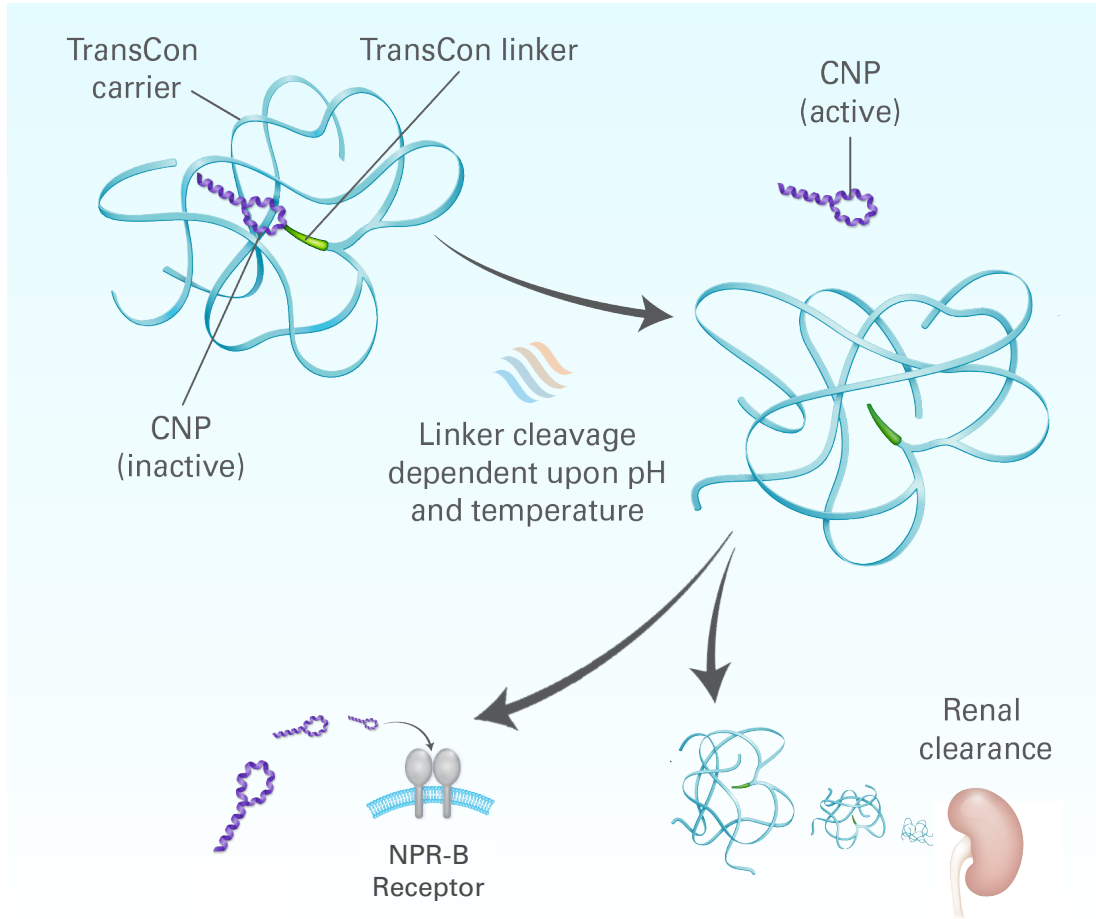


FGFR3, fibroblast growth factor receptor 3; HRQoL, health-related quality of life

¹Hunter AG, et al. *J Med Genet* 1998. ²Matsushita M, et al. *Calcif. Tissue Int* 2019. ³Savarirayan R, et al. *Nat Rev Endocrinol* 2022. ⁴Murton MC, et al. *Adv Ther* 2023. ⁵Nahm NJ, et al. *Orphanet J Rare Dis* 2023.

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Navepegritide (TransCon[®] CNP)

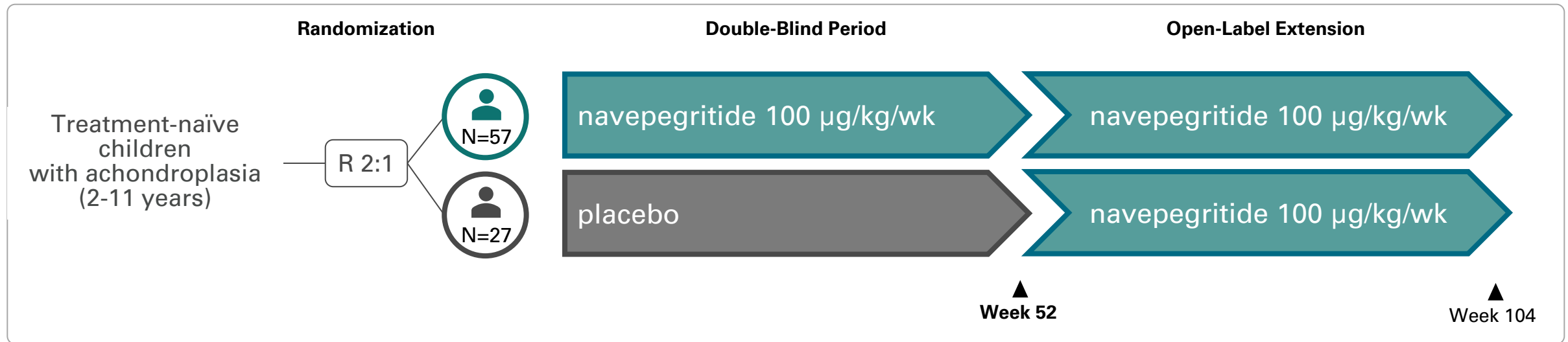


- Navepegritide, an investigational prodrug of C-type natriuretic peptide (CNP), binds to the NPR-B receptor to counteract overactive fibroblast growth factor receptor 3 (FGFR3) signaling in achondroplasia
- Navepegritide is administered once weekly, and is designed to provide continuous exposure of active CNP (amino acid sequence identical to endogenous CNP [89-126])

CNP, C-type natriuretic peptide; FGFR3, fibroblast growth factor receptor 3; NPR-B; natriuretic peptide receptor B
Breinholt VM, et al. *J Pharmacol Exp Ther* 2019.

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ApproaCH trial design



Primary Endpoint

- Annualized growth velocity (**AGV**) at Week 52

Key Secondary Endpoints

- Change from baseline in height Z-score at Week 52
- **HRQoL**, including Achondroplasia Child Experience Measure (ACEM)

Safety Endpoints

- Treatment emergent adverse events (TEAEs)
- Tolerability

Exploratory Endpoint

- Change from baseline in key orthopedic features of the skeletal dysplasia (with radiographs were collected at baseline and Week 52 and assessed by blinded, expert central readers)

HRQoL, health-related quality of life

N = number of children that received at least one dose of investigational medicinal product

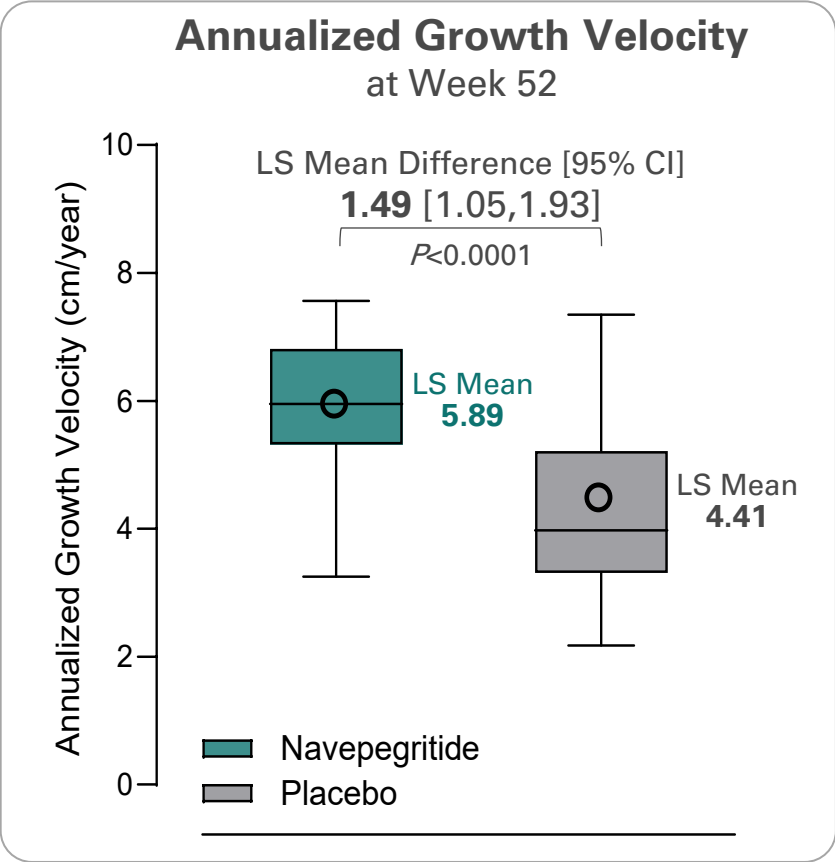
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ApproaCH trial population is representative of children with achondroplasia

Full Analysis Set	Navepegritide (N=57)	Placebo (N=27)	Overall (N=84)
Age (years), mean (SD) [min, max]	5.6 (2.6) [2.0, 11.9]	6.0 (2.7) [2.1, 12.0]	5.7 (2.6) [2.0, 12.0]
Age (years) group, n (%)			
<5 years	21 (36.8)	10 (37.0)	31 (36.9)
≥5 years	36 (63.2)	17 (63.0)	53 (63.1)
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)
Achondroplasia-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)

Once-weekly navepegritide demonstrated superior AGV at Week 52 with a safety and tolerability profile comparable to placebo

ApproaCH Primary Endpoint



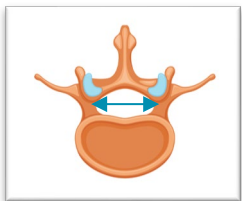
ApproaCH Safety Summary

Event, n (%)	Navepegritide (N=57)	Placebo (N=27)
Any treatment-emergent AE	52 (91.2%)	26 (96.3%)
Mild	52 (91.2%)	25 (92.6%)
Moderate	16 (28.1%)	11 (40.7%)
Severe	4 (7.0%)	1 (3.7%)
Life-threatening or death	0	0
Serious adverse events (SAE)	3 (5.3%)	3 (11.1%)
Treatment-related SAE	0	0
Injection site reaction	11 (19.3%)	4 (14.8%)
Symptomatic hypotension	0	0
Fracture / SCFE / Osteonecrosis	0	0
Mean change (SD) from baseline in ratio of bone age/chronological age	0.000 (0.0887)	-0.013 (0.1137)

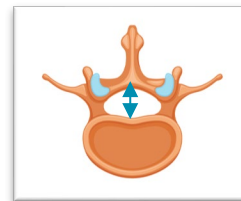
n = number of participants with observation

Note: Box plot represents observed data; labeled circles represent least squares mean values
Data originally presented by L. Ward at the Joint Congress of ESPE and ESE 2025, Copenhagen, Denmark, on behalf of the ApproaCH investigators
AE, adverse event; AGV, annualized growth velocity; LS, least squares; SCFE, slipped capital femoral epiphysis; SD, standard deviation
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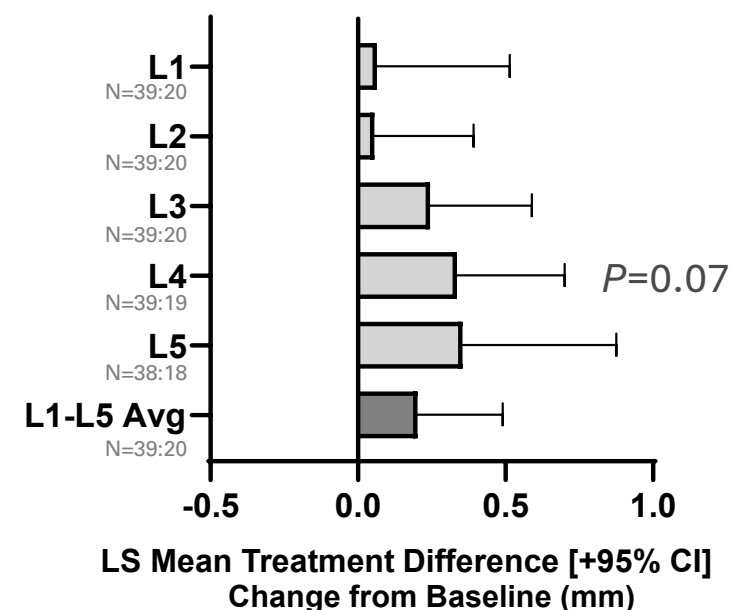
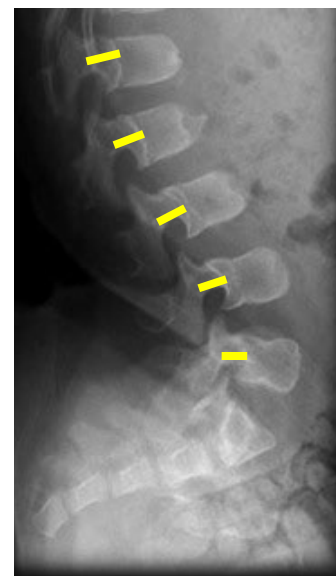
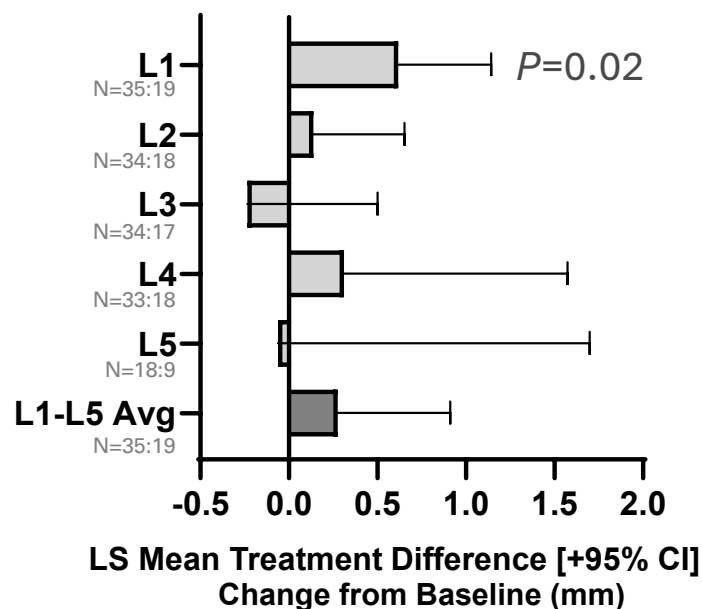
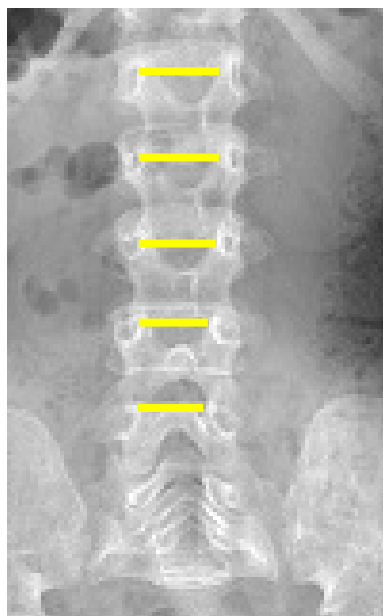
Navepegritide-treated children in the ApproaCH trial had greater expansion of the spinal canal vs placebo at Week 52



Interpedicular Distance (IPD)



Pedicle Width (PW)



Data originally presented by L. Ward at the Joint Congress of ESPE and ESE 2025, Copenhagen, Denmark, on behalf of the ApproaCH investigators
Note: N=n:n represents number of children treated with navepegritide or placebo, respectively. Error bars indicate 95% CI (upper bound).
CI, confidence interval; LS, Least squares

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Orthopedic measurement on standing lower limb X-rays used for evaluation of lower extremity alignment and proportionality

Alignment

TFA

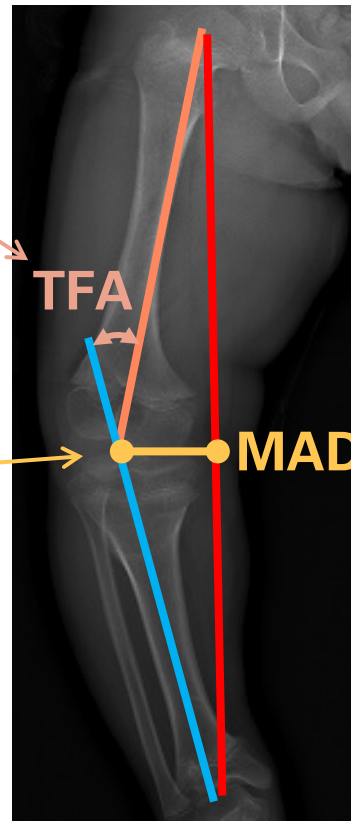
Tibial-Femoral Angle

Angle between the mechanical axes of the femur and the tibia

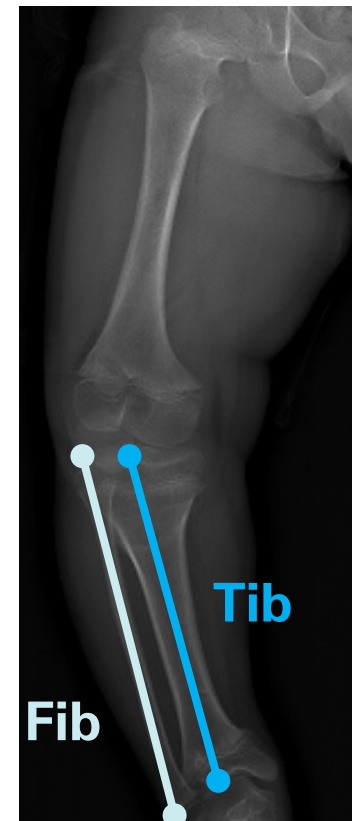
MAD

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



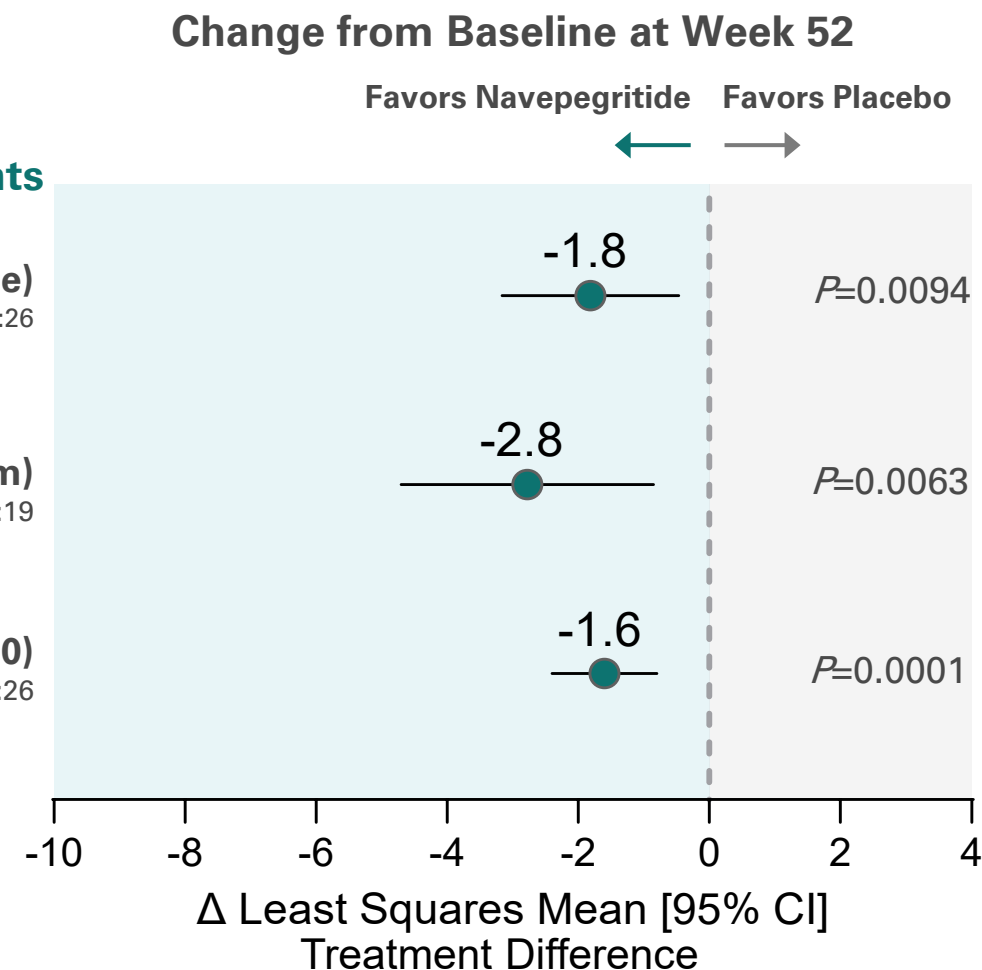
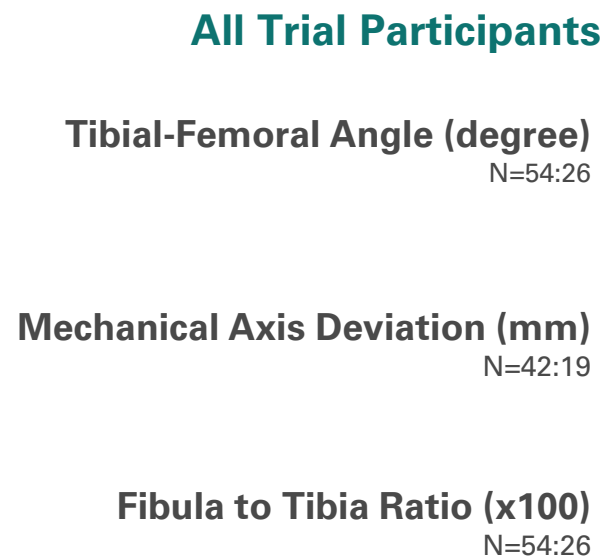
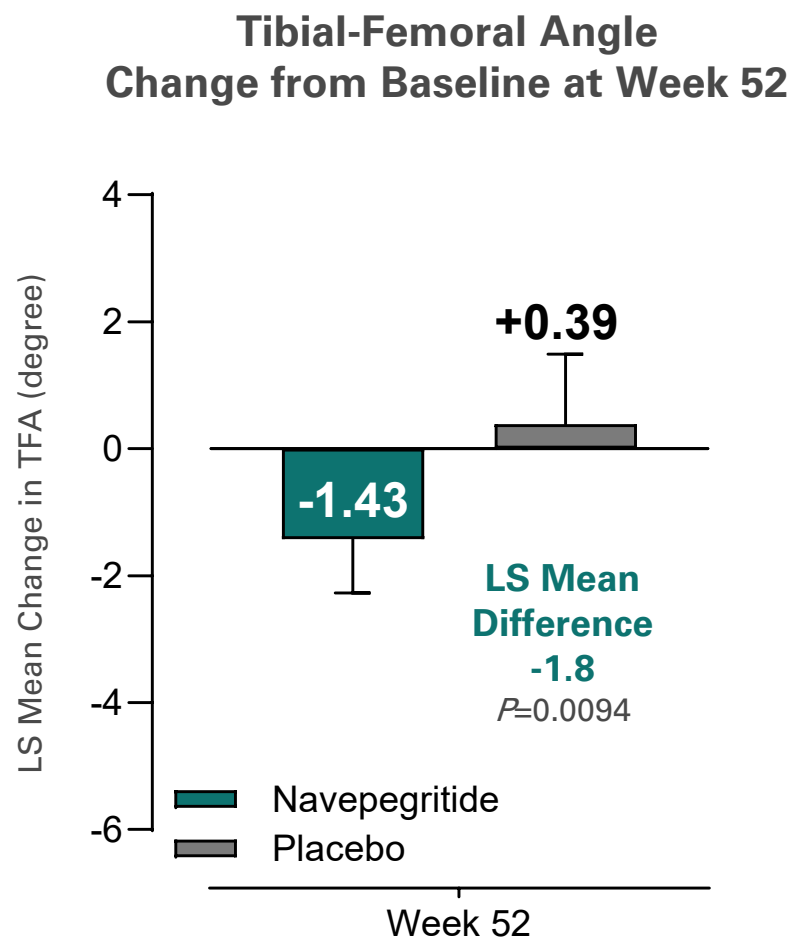
Fibular “overgrowth” is a key contributor to the progression of leg curvature

Fib / Tib

Fibula to Tibia Ratio

Ratio of fibula length to tibia length

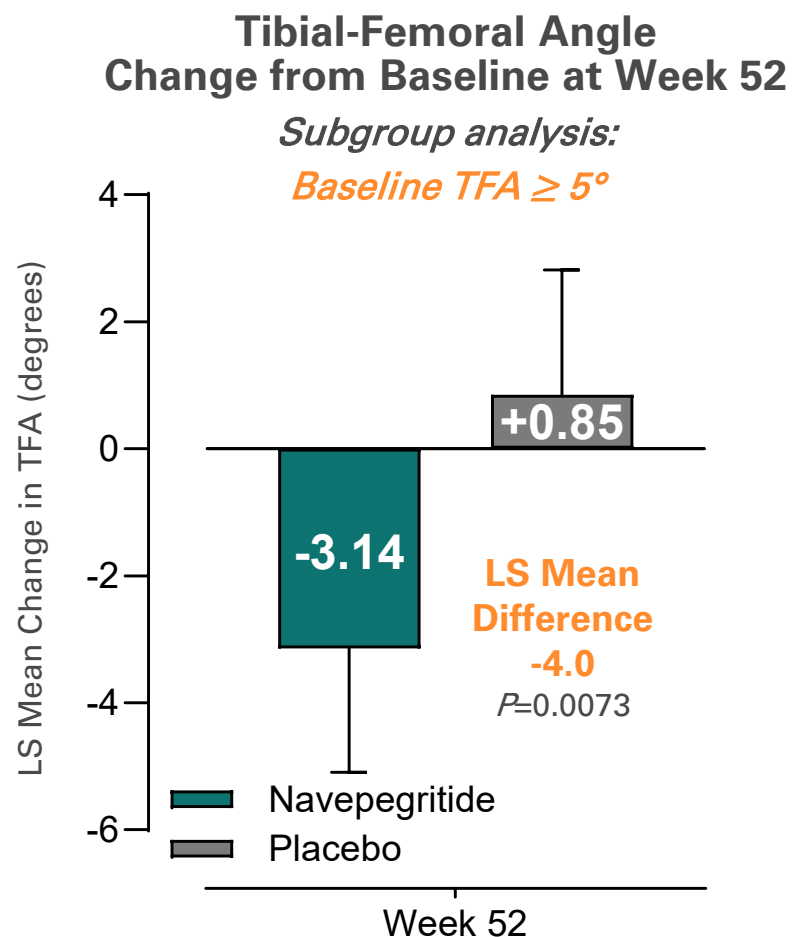
Navepegritide improved lower extremity alignment and fibula:tibia ratio



Note: N=n:n represents number of children treated with navepegritide or placebo, respectively.
LS, least squares; TFA, tibial-femoral angle

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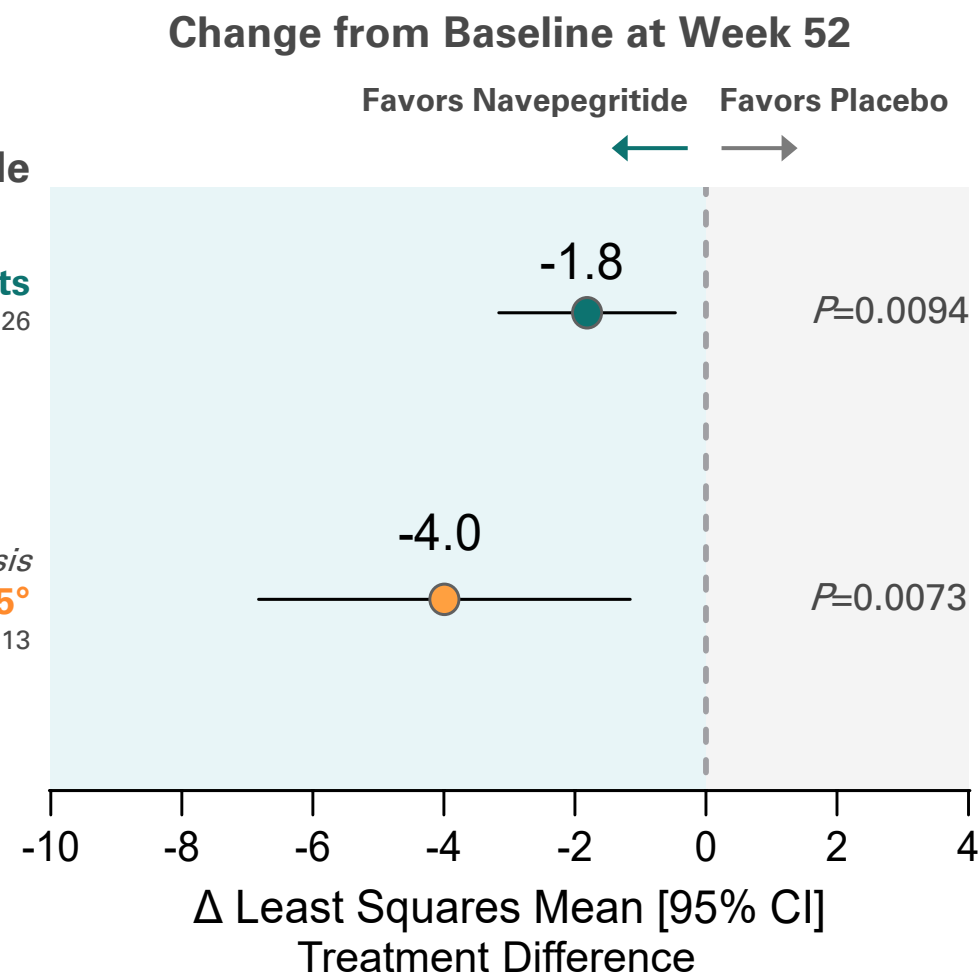
Greater benefits in alignment observed with navepegritide in children with genu varum $\geq 5^\circ$ at baseline



Tibial-Femoral Angle

All Trial Participants
N=54:26

Subgroup analysis
Baseline TFA $\geq 5^\circ$
N=26:13



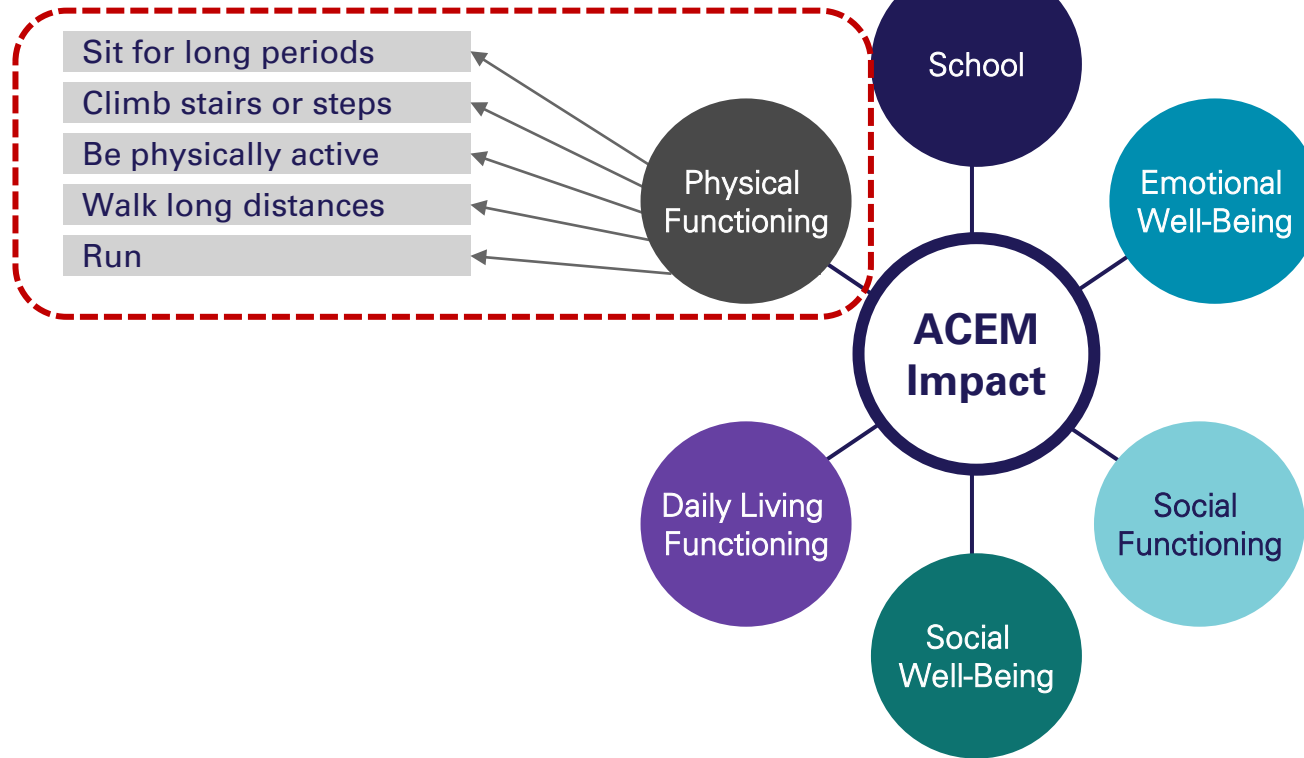
Note: N=n:n represents number of children treated with navepegritide or placebo, respectively.
LS, least squares; TFA, tibial-femoral angle

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Condition-specific clinical outcome assessments: Achondroplasia Child Experience Measure (ACEM)

ACEM-IMPACT

In the past 2 weeks, because of achondroplasia, how difficult was it for your child to:^{1,2}



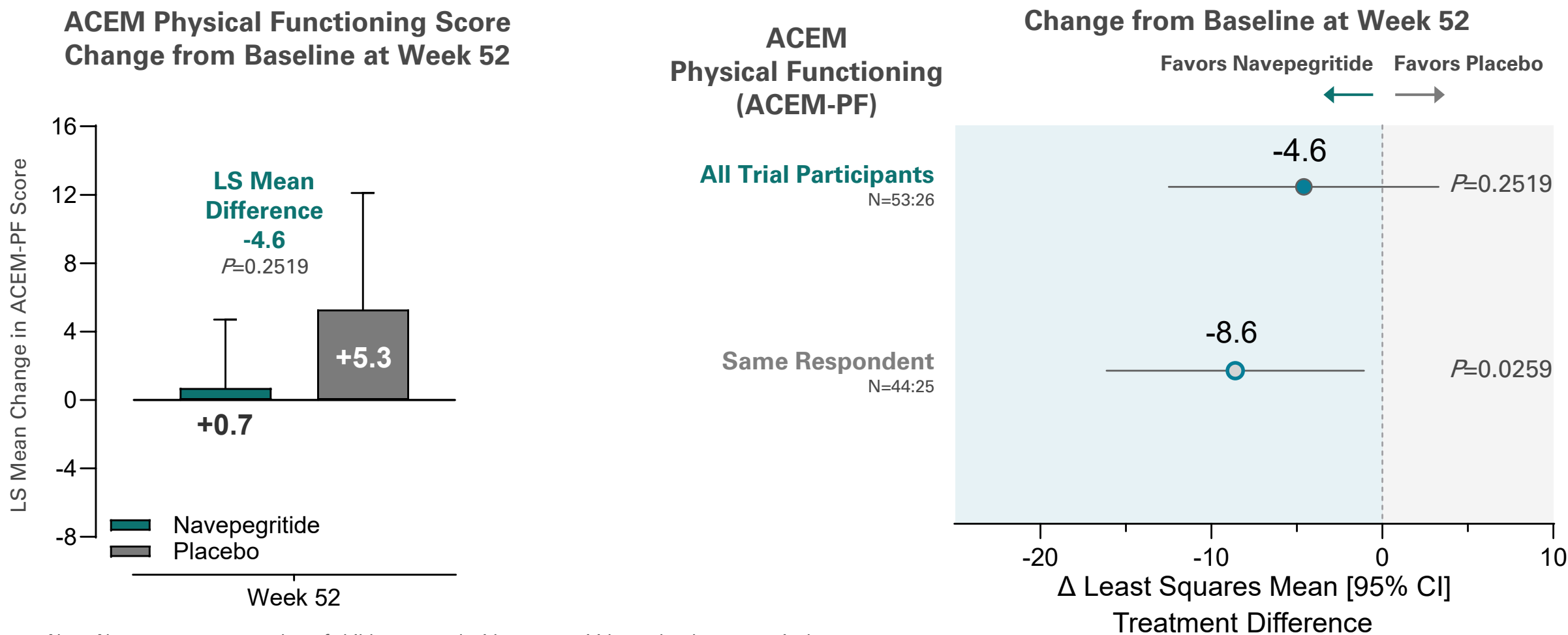
The measure is completed by the caregiver and scored on a 0-100 scale with higher scores indicating greater impairment

ACEM, Achondroplasia Child Experience Measure

¹Pfeiffer KM, et al. *Am J Med Genet A* 2021. ²Savariryan R, et al. International Conference on Children's Bone Health (ICCBH) 2024. Oral Presentation

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Change from baseline in physical functioning score favors navepegritide treatment vs placebo

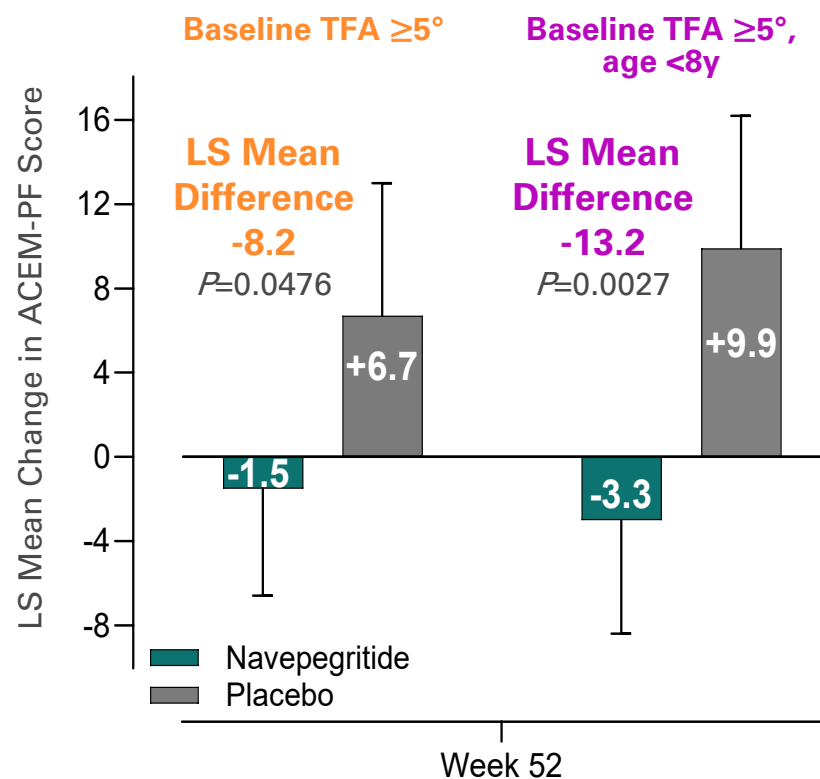


Note: N=n:n represents number of children treated with navepegritide or placebo, respectively.
ACEM, Achondroplasia Child Experience Measure; LS, least squares; PF, physical functioning

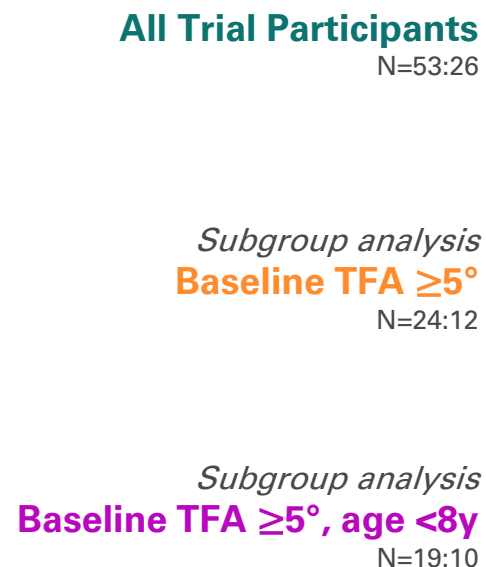
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Children with genu varum $\geq 5^\circ$ at baseline reported greater improvement in physical functioning with navepegritide

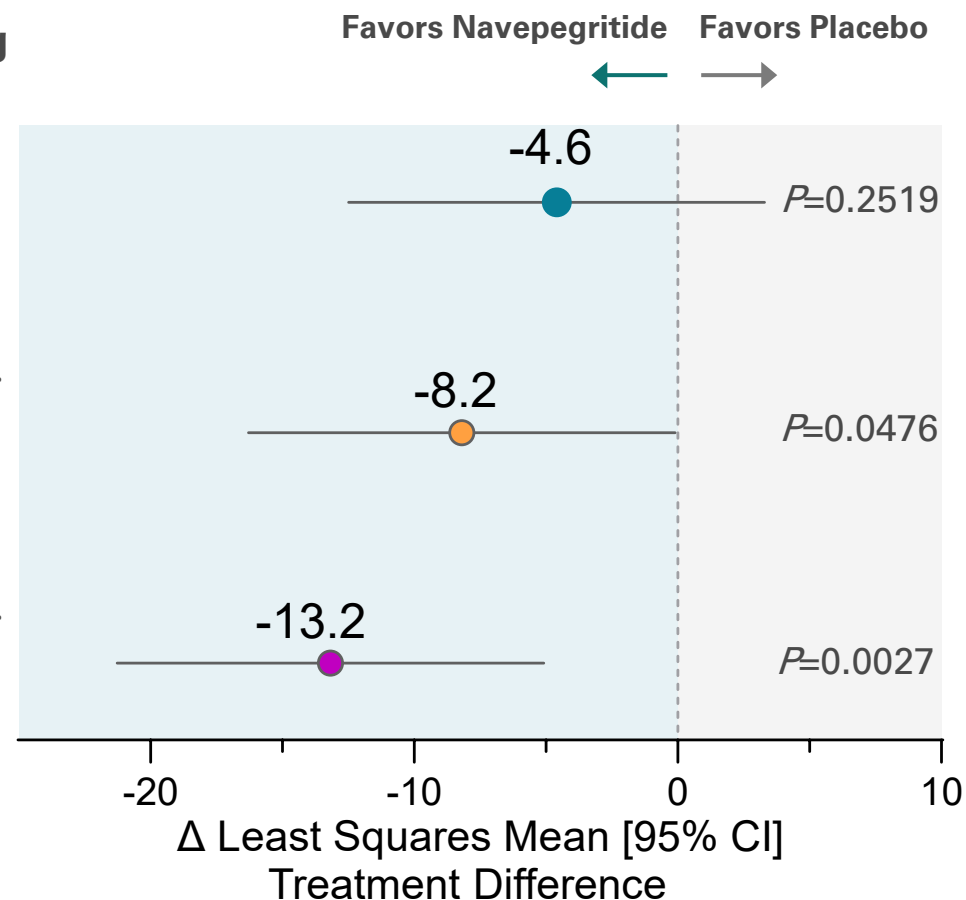
ACEM Physical Functioning Score Change from Baseline at Week 52 *Subgroup analyses:*



ACEM Physical Functioning (ACEM-PF)

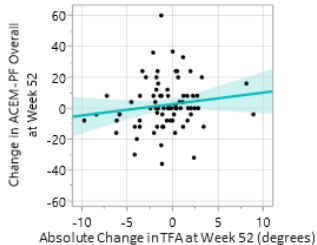
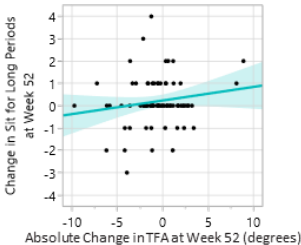
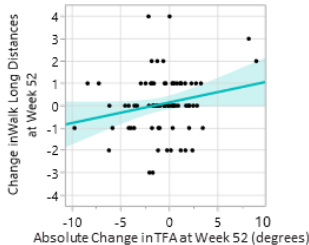
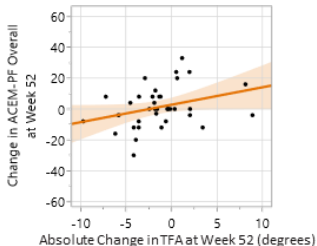
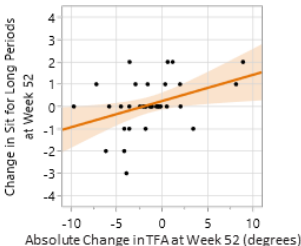
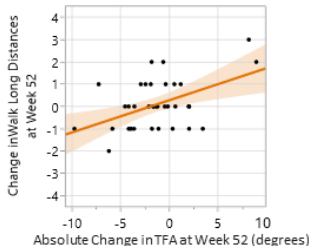
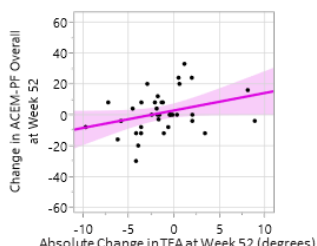
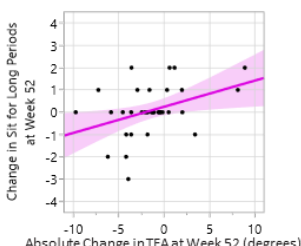
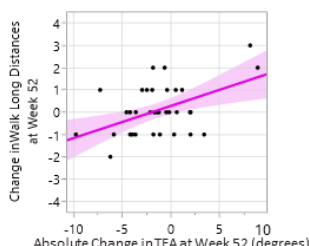


Change from Baseline at Week 52



Note: N=n:n represents number of children treated with navepegritide or placebo, respectively.
ACEM, Achondroplasia Child Experience Measure; LS, least squares; PF, physical functioning; TFA, tibial-femoral angle
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Changes in physical functioning correlated with improvements in lower limb alignment in children aged <8 years and with genu varum $\geq 5^\circ$ at baseline

		Absolute change in TFA (in degrees) vs. change in:		
		ACEM-PF Overall	Sit for Long Periods	Walk Long Distances
All Trial Participants				
Pearson R	0.14		0.16	0.21
P-value	0.22		0.17	0.07
Subgroup analysis TFA $\geq 5^\circ$				
Pearson R	0.31		0.39	0.48
P-value	0.062		0.020	0.003
Subgroup Analysis TFA $\geq 5^\circ$, age <8y				
Pearson R	0.39		0.47	0.62
P-value	0.035		0.013	0.0003

ACEM, Achondroplasia Child Experience Measure; PF, physical functioning; TFA, tibial-femoral angle

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Summary

- Navepegritide demonstrated statistically significant improvements in growth endpoints at Week 52 in the ApproaCH trial
- Navepegritide improved indices of lower limb alignment and proportional growth at Week 52, suggesting the potential to reduce future complications
- Significant improvement was observed with navepegritide in the Physical Functioning domain of the Achondroplasia Child Experience Measure (ACEM-PF), with greater benefits in children with more severe genu varum at baseline, particularly those less than 8 years of age

Once-weekly navepegritide may offer benefits beyond promoting linear growth that translate into meaningful improvements in the lives of children living with achondroplasia

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