

[The only FDA-approved targeted therapy]

[Indicated to increase linear growth for children with achondroplasia from as early as birth until growth plates close.¹]

INDICATION AND IMPORTANT SAFETY INFORMATION

VOXZOGO® (vosoritide) is indicated to increase linear growth in pediatric patients with achondroplasia and open growth plates.

• This indication is approved under accelerated approval based on an improvement in annualized growth velocity. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s).

Warnings and Precautions for Risk of Low Blood Pressure

Transient decreases in blood pressure were observed in clinical studies. Patients with significant cardiac or vascular disease and patients on anti-hypertensive medicinal products were excluded from participation in VOXZOGO clinical trials. To reduce the risk of a decrease in blood pressure and associated symptoms (dizziness, fatigue, and/or nausea), patients should be well hydrated, have adequate food intake, and drink approximately 8-10 ounces of fluid in the hour prior to VOXZOGO administration.

Endochondral bone growth is inhibited in achondroplasia^{3,4}

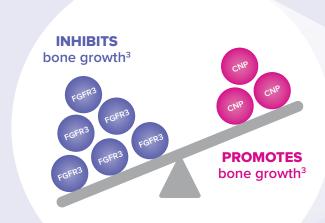
Endochondral bone growth

is the predominant process of bone development in which cartilage is replaced by bone at open growth plates.^{5,6}

Endochondral bones make up >90% of the bones in the body⁶⁻¹⁵

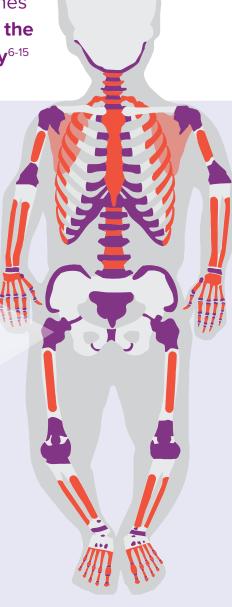
Endochondral bones

Growth plates^{5,8,16-24}



Overactive FGFR3 signaling relative to CNP signaling in growth plate cells is the underlying cause of inhibited bone growth in achondroplasia³

Endogenous CNP levels cannot adequately regulate overactive FGFR3 signaling.³



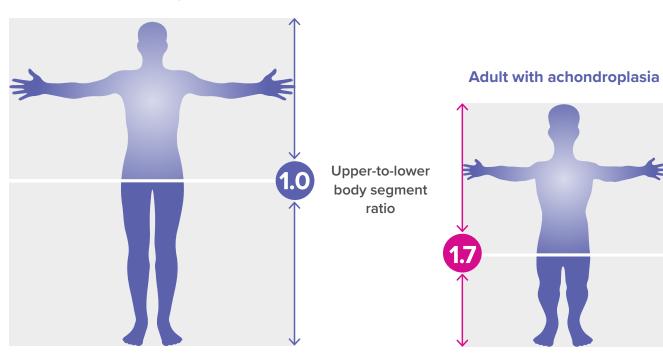
This simplified image is for illustrative purposes only.

Inhibited bone growth throughout the body can affect different aspects of development^{3-6,25,26}

Inhibited endochondral bone growth leads to distinct characteristic features such as **reduced and disproportionate growth**^{3,4,25}

Upper-to-lower body segment ratio is a common measure of body proportionality and is calculated by the length of the upper body divided by the length of the lower body.²⁷⁻²⁹

Adult with average stature

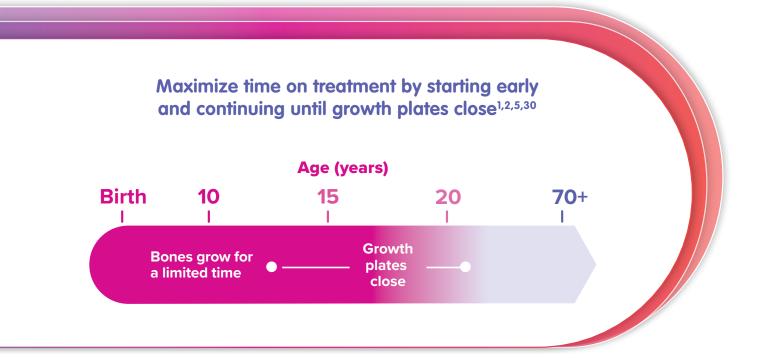


Upper-to-lower body segment ratio becomes proportional at 10 years old (ratio=1).^{27,28}

Upper-to-lower body disproportionality continues into adulthood (ratio>1).^{27,28}

VOXZOGO promotes endochondral bone growth as early as birth¹

VOXZOGO targets overactive FGFR3 signaling and works by mimicking the body's natural **CNP** to promote endochondral bone growth, but only while growth plates remain open.¹



International consensus guidelines support early initiation of VOXZOGO²

BioMarin provided funding for the *International consensus guidelines on the implementation and monitoring of vosoritide therapy in individuals with achondroplasia*, including honoraria to participants. BioMarin was not involved in the selection of the guidelines development group, defining the guidelines scope, the voting process, analysis of the results, or preparation of the submitted manuscript. Please see Acknowledgements section of publication for additional detail.²



CLICK OR SCAN THE QR CODE TO LEARN MORE

IMPORTANT SAFETY INFORMATION

Warnings and Precautions for Risk of Low Blood Pressure (cont'd)

In a 52-week, randomized, double-blind, placebo-controlled trial in 121 subjects with achondroplasia, subjects aged from 5.1 to 14.9 years, (Study 1) eight (13%) of 60 patients treated with VOXZOGO had a total of 11 events of transient decrease in blood pressure, compared to 3 (5%) of 61 patients on placebo, over a 52-week treatment period. The median time to onset from injection was 31 (18 to 120) minutes, with resolution within 31 (5 to 90) minutes in VOXZOGO-treated subjects. Two out of 60 (3%) VOXZOGO-treated patients each had one symptomatic episode of decreased blood pressure with vomiting and/or dizziness compared to 0 of 61 (0%) patients on placebo.

VOXZOGO has been studied in children aged 4 months to <18 years^{1,31-33}

CANOPY-ACH-OS (Study 901)

Ongoing Observational Study^{32,34}

- Age: 0 months to <18 years
- Establish baseline growth*





CANOPY ACH-2I (Study 206)†

Phase 2 Infant and Toddler Study^{33,34}

- Age: 4 months to <5 years
- 52-week, double-blind, randomized, placebo-controlled

CANOPY ACH-EXT (Study 208)

Ongoing Open-label Extension Study^{34,35}

• Duration: Near final adult height

CANOPY ACH-3 (Study 301)

Phase 3 Pivotal Study^{31,34}

- Age: 5 to <18 years
- 52-week, double-blind, randomized, placebo-controlled

CANOPY ACH-EXT (Study 302)

Ongoing Open-label Extension Study^{31,34,36}

· Duration: Final adult height

Data continue to be collected in ongoing clinical trials³⁷

*Duration of \geq 6 months if aged \geq 3 months at study entry; duration of \geq 3 months if aged \leq 3 months at study entry.³²
†Participants completed at least 3 or 6 months of an observational run-in growth study (either in CANOPY ACH-OS [Study 901] or CANOPY ACH-2I [Study 206]) to establish their baseline annualized growth velocity.^{33,34}

IMPORTANT SAFETY INFORMATION

Adverse Reactions:

Adverse reactions that occurred in ≥5% of patients treated with VOXZOGO and at a rate greater than that of placebo in the phase 3 study are injection site reactions (including erythema, swelling, urticaria, pain, bruising, pruritus, hemorrhage, discoloration, and induration), vomiting, arthralgia, decrease in blood pressure, gastroenteritis, diarrhea, dizziness, ear pain, influenza, fatigue, seasonal allergy, and dry skin. VOXZOGO-treated patients had an increase in alkaline phosphatase levels (17%), and was noted as a laboratory abnormality.

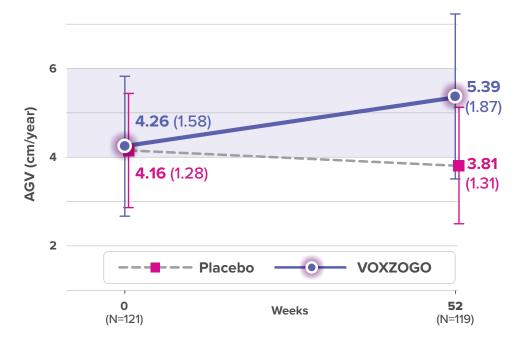


Children with achondroplasia on VOXZOGO can grow faster than without treatment^{1,38}

CANOPY ACH-3 (Study 301)

Phase 3 pivotal trial in children aged 5 to 15 years (N=121)31,34

Mean (±SD) AGV over time³⁸



AGV difference from placebo at 1 year in the primary analysis:

+1.57 cm/yr1*†

P<0.0001 (95% CI: 1.22, 1.93)



AGV increase maintained over baseline at

4 years

in VOXZOGO-treated children from the open-label extension study (N=105)³⁸

Mean (±SD) AGV at 4 years: VOXZOGO (n=49): 4.77 (2.17) Placebo to VOXZOGO (n=56): 4.43 (2.35)

Study design^{1,34,38}

4 years of data were collected from VOXZOGO-treated patients aged 5 to 15 years across the CANOPY ACH-3 (Study 301) pivotal trial and CANOPY ACH-EXT (Study 302), the open-label extension study evaluating the long-term efficacy and safety profile of VOXZOGO.

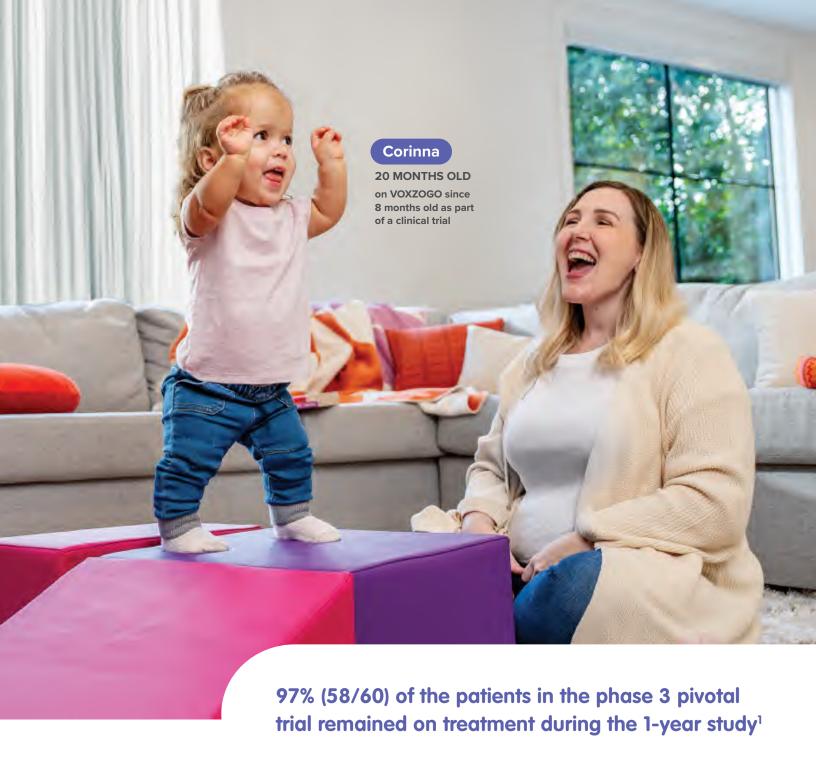
Primary endpoint¹

Change from baseline in AGV at Week 52 compared to placebo.

AGV is a measure of linear growth expressed as the change in height or length units over 1 year.

AGV, annualized growth velocity; CI, confidence interval; LS, least squares; SD, standard deviation.

*Improvement in AGV was consistent across all predefined subgroups, including sex, age, and Tanner stage.¹ †All randomized subjects. Two patients in the VOXZOGO group discontinued from the study before Week 52; the values for these 2 patients were imputed assuming baseline growth rate for the period with missing data.¹ ‡LS means were estimated from the ANCOVA (analysis of covariance) model, which included treatment, stratum defined by sex and Tanner stage, baseline age, baseline AGV, and baseline height Z-score.¹



IMPORTANT SAFETY INFORMATION

Adverse Reactions: (cont'd)

Injection site reactions: In Study 1, injection site reactions occurred in 51 (85%) subjects receiving VOXZOGO and 50 (82%) subjects receiving placebo over a 52-week period of treatment. Patients receiving VOXZOGO experienced a total of 6983 events of injection site reactions, while patients receiving placebo experienced a total of 1776 events of injection site reactions, over a 52-week period, representing 120.4 events per patient/ year exposure and 29.2 events per patient/year exposure, respectively. Two patients in the VOXZOGO arm discontinued treatment due to adverse events of pain and anxiety with injections.







Additional preliminary data continue to be collected

VOXZOGO is approved under accelerated approval based on an improvement in annualized growth velocity. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s).¹

The following information is being provided to inform healthcare providers on the ongoing assessment and experience of patients in the clinical trial program.

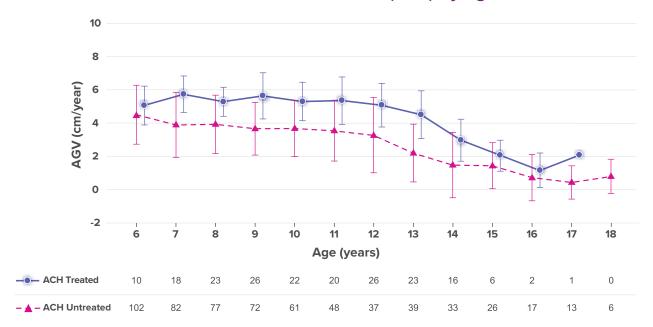
These data are not included in the US Prescribing Information and do not establish a clinical benefit or conclusions on efficacy. The analyses are preliminary and exploratory and should be interpreted cautiously.

Impact on final adult height has not been established and continues to be evaluated as studies are ongoing

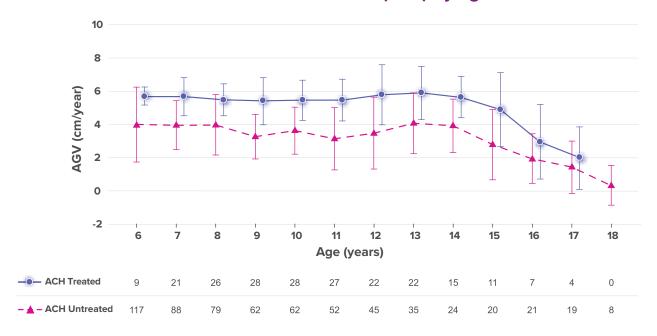


AGV by age in VOXZOGO-treated children was compared to a separate untreated control group³⁹





Mean male AGV (±SD) by age^{39*}



ACH, achondroplasia; **AGV,** annualized growth velocity; **EXT,** extension; **SD,** standard deviation. *Adapted from Savarirayan R, et al. *Med.* 2024:100566.³⁹



Data Limitations

- The VOXZOGO-treated and untreated groups are from different studies. Comparison of inter-study results should be interpreted with caution due to potential differences in study design and methods.³⁹
- The effect of VOXZOGO on final adult height has not been established and continues to be assessed. These preliminary results are not in the US label, reflect a cross-sectional mix of treatment durations, are descriptive, and may result from chance.³⁹

Study Design

As a primary endpoint of CANOPY ACH-EXT (Study 302), AGV was calculated by age and sex in VOXZOGO-treated children (full analysis set; age 5 to <18 years; N=119) and plotted against the AGV of age- and sex-matched untreated children with ACH from an external ACH natural history study (CLARITY Study). For the VOXZOGO-treated children, AGV was derived for height assessments 12 ± 3 months apart and linked to a specific age integer considering the age at the midpoint of the 12-month interval. 34,39

The mean (SD) VOXZOGO treatment duration at data cutoff was 4.0 (0.8) years (min: 1.7 years, max: 6.2 years).³⁹

IMPORTANT SAFETY INFORMATION

Pediatric Patients 0 to <5 Years:

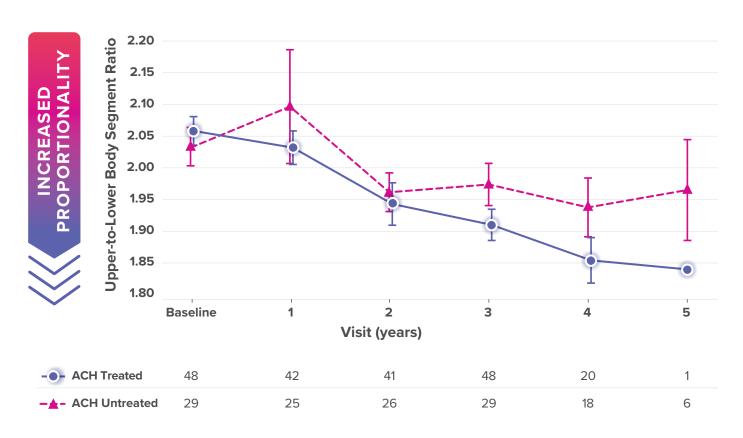
The safety of VOXZOGO in pediatric patients 0 to <5 years with achondroplasia was evaluated in a 52-week randomized, double-blind, placebo-controlled study (Study 2). In this study, 64 patients from birth to <5 years of age were randomized to receive either a daily vosoritide dose with similar exposure to that characterized to be safe and effective in children with ACH aged ≥5 years old, or placebo. An additional 11 patients received openlabel treatment as part of this study. The most common adverse reactions (>10%) reported in pediatric patients 0 to <5 years were injection site reactions (86%) and rash (28%). The overall safety profile of VOXZOGO in pediatric patients 0 to <5 years was similar to that seen in older pediatric patients.



Body proportionality was measured over 5 years in a subset of children treated with VOXZOGO³⁹

CANOPY ACH-3 (Study 301): After 1 year in the pivotal trial, the secondary endpoint of LS mean change from baseline in upper-to-lower body segment ratio was -0.02 in the placebo group (n=61) and -0.03 in the VOXZOGO group (n=58). The difference in LS mean change from baseline was -0.01 (95% CI: -0.05, 0.02; P=0.5).^{1,34,40}

Mean (±SE) upper-to-lower body segment ratio^{39*}



ACH, achondroplasia; CI, confidence interval; LS, least squares; SE, standard error.

^{*}Adapted from Savarirayan R, et al. Med. 2024:100566.39

[†]In average-stature children, average upper-to-lower body segment ratio is 1.7 at birth and decreases to 1.0 at 10 years old. In ACH, the ratio never reaches 1.0 but still declines from birth up to ~age 10 years in girls and 11 years in boys.³⁹



5-Year Data Limitations

- Due to potential differences in study design, care should be taken when interpreting the inter-trial comparison of the VOXZOGO-treated and untreated groups.³⁹
- The effect of VOXZOGO on final adult height and proportionality has not been established and continues to be assessed. These preliminary results are not in the US label, are not statistically powered, should be cautiously interpreted, and may result from chance.^{1,39}

Study Design

As an exploratory endpoint of CANOPY ACH-EXT (Study 302), body proportionality was measured by upper-to-lower body segment ratio in a subset of VOXZOGO-treated children with assessments at age <11 (girls) or <12 years (boys); all children were age 5 to <18 years. Assessments beyond these ages are excluded from analysis. 34,39,41 †

Upper-to-lower body segment ratio of age-matched untreated children with ACH were also measured in a separate untreated control group; the untreated children were from CANOPY ACH-OS (Study 901) and the placebo arm of CANOPY ACH-3 (Study 301).^{34,39,41}

IMPORTANT SAFETY INFORMATION

Administration and Monitoring:

VOXZOGO is administered as a daily subcutaneous injection. Prior to use, instruct caregivers on proper preparation and administration of VOXZOGO, and ensure caregivers have demonstrated the ability to perform a subcutaneous injection.

Monitor and assess patient body weight, growth, and physical development regularly every 3-6 months. Adjust dosage according to the patient's actual body weight. Permanently discontinue treatment with VOXZOGO upon confirmation of no further growth potential, indicated by closure of epiphyses.



The safety profile of VOXZOGO has been rigorously evaluated¹

Children 5 to 15 years old

Adverse reactions that occurred in ≥5% of patients aged 5 to 15 years treated with VOXZOGO and at a percentage greater than placebo over 1 year.1*

ADVERSE REACTIONS	PLACEBO (n=61)	VOXZOGO (n=60)
Injection site erythema†	42 (69%)	45 (75%)
Injection site swelling [†]	22 (36%)	37 (62%)
Vomiting	12 (20%)	16 (27%)
Injection site urticaria†	6 (10%)	15 (25%)
Arthralgia	4 (7%)	9 (15%)
Decreased blood pressure	3 (5%)	8 (13%)
Gastroenteritis‡	5 (8%)	8 (13%)
Diarrhea	2 (3%)	6 (10%)
Dizziness§	2 (3%)	6 (10%)
Ear pain	3 (5%)	6 (10%)
Influenza	3 (5%)	6 (10%)
Fatigue ^{II}	2 (3%)	5 (8%)
Seasonal allergy	1 (2%)	4 (7%)
Dry skin	0 (0%)	3 (5%)

 Adverse reactions reported in the 1-year phase 3 study are consistent with those seen in the long-term safety study³⁶

VOXZOGO may cause serious side effects including a temporary decrease in blood pressure in some patients; to reduce the risk of a decrease in blood pressure and associated symptoms (dizziness, feeling tired, or nausea), patients should be well fed and hydrated in the hour before receiving VOXZOGO.¹

Children under 5 years old

The overall safety profile of VOXZOGO in pediatric patients <5 years was similar to that seen in older pediatric patients.¹

• The most common adverse reactions (>10%) reported in pediatric patients <5 years were injection site reactions (86%) and rash (28%)¹

^{*}Includes adverse reactions occurring more frequently in the VOXZOGO arm and with a risk difference of ≥5% (ie, difference of >2 subjects) between treatment arms.¹

¹Injection site reactions occurring more frequently in VOXZOGO-treated patients than placebo.¹

[‡]Includes the preferred terms: gastroenteritis and gastroenteritis, viral.¹

[§]Includes the preferred terms: dizziness, presyncope, procedural dizziness, and vertigo.1

[&]quot;Includes the preferred terms: fatigue, lethargy, and malaise."



Administering VOXZOGO

VOXZOGO is a once-daily subcutaneous injection, administered at home by a trained caregiver.¹

Make sure to:



Monitor and assess patient body weight, growth, and physical development every 3-6 months and adjust the dosage according to the patient's actual body weight¹



Discontinue VOXZOGO upon confirmation of no further growth potential, indicated by closure of growth plates¹





Widespread coverage for your patients and their families^{1,43,44}



97% of insured patients have secured coverage for VOXZOGO^{43*†}



96% of eligible families with commercial insurance paid \$0 out of pocket for VOXZOGO44*‡§

BioMarin provides personalized support services every step of the way





Case managers assist with financial barriers, specialty pharmacy coordination, and coverage education



BioMarin Clinical Coordinators

One-on-one injection training, product education, and support

VOXZOGO° (vosoritide) for injection

^{*}BioMarin RareConnections™ Data on File. VOXZOGO patients included are eligible VOXZOGO patients who have enrolled in BioMarin RareConnections and are on commercial therapy.

[†]BioMarin RareConnections data from April through December 2023.

[‡]BioMarin RareConnections data from January through December 2023.

[§]Terms and Conditions apply. Valid only for patients with commercial prescription insurance coverage who have a valid prescription for an FDA-approved indication and who meet additional eligibility criteria. Not valid for prescriptions reimbursed, in whole or in part, by any federal, state, or government-funded insurance programs (for example, Medicare, Medicare Advantage, Medigap, Medicaid, VA, DoD, or TRICARE) or where prohibited by law or by the patient's health insurance provider. If at any time a patient begins receiving prescription drug coverage under any federal, state, or government-funded healthcare program, the patient will no longer be able to use the program and patient must notify BioMarin RareConnections at 1-866-906-6100 to stop participation. Patients residing in or receiving treatment in certain states may not be eligible for some or all of the program elements. Patients may not seek reimbursement for value received from the program from any third-party payers. Additional restrictions may apply. Offer subject to change or discontinuance without notice. This assistance offer is not health insurance. See BioMarin-copay-terms.com for full Terms and Conditions.

Indication and Important Safety Information

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In a 52-week, randomized, double-blind, placebo-controlled trial in 121 subjects with achondroplasia, subjects aged from 5.1 to 14.9 years, (Study 1) eight (13%) of 60 patients treated with VOXZOGO had a total of 11 events of transient decrease in blood pressure, compared to 3 (5%) of 61 patients on placebo, over a 52-week treatment period. The median time to onset from injection was 31 (18 to 120) minutes, with resolution within 31 (5 to 90) minutes in VOXZOGO-treated subjects. Two out of 60 (3%) VOXZOGO-treated patients each had one symptomatic episode of decreased blood pressure with vomiting and/or dizziness compared to 0 of 61 (0%) patients on placebo.

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Pediatric Patients 0 to <5 Years:

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Special Populations:

- There are no available data on the use of VOXZOGO in pregnant women, or data on the presence of VOXZOGO in human milk, the effects on the breastfed infant, or the effects on milk production.
- The influence of renal impairment on the pharmacokinetics of VOXZOGO has not been evaluated. No dosage adjustment is needed for patients with eGFR ≥60 mL/min/1.73 m².
 VOXZOGO is not recommended for patients with eGFR <60 mL/min/1.73 m².

You may report side effects to the FDA at **1-800-FDA-1088** or **www.fda.gov/medwatch**. You may also report side effects to BioMarin at **1-866-906-6100**.



References: 1. VOXZOGO [package insert]. Novato, CA: BioMarin Pharmaceutical Inc; 2024. 2. Savarirayan R, Hoover-Fong J, Ozono K, et al. International consensus guidelines on the implementation and monitoring of vosoritide therapy in individuals with achondroplasia. Nat Rev Endocrinol. 2025;21(5):314-324. 3. Horton WA, Hall JG, Hecht JT. Achondroplasia. Lancet. 2007;370(9582):162-172. 4. Savarirayan R, Ireland P, Irving M, et al. International Consensus Statement on the diagnosis, multidisciplinary management and lifelong care of individuals with achondroplasia. Nat Rev Endocrinol. 2022;18(3):173-189. 5. Mackie EJ, Tatarczuch L, Mirams M. The skeleton: a multifunctional complex organ: the growth plate chondrocyte and endochondral ossification. J Endocrinol. 2011;211(2):109-121. 6. Clarke B. Normal bone anatomy and physiology. Clin J Am Soc Nephrol. 2008;3(suppl 3):S131-S139. 7. Breeland G, Sinkler MA, Menezes RG. Embryology, bone ossification. In: StatPearls. 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Questions about VOXZOGO?

Contact your BioMarin representative to get the conversation started.



[VOXZOGO is the only FDA-approved targeted therapy for children with achondroplasia¹]

[Indicated to increase linear growth in children with achondroplasia and open growth plates.1]



VOXZOGO targets the underlying cause of inhibited endochondral bone growth.^{1,3,4}



VOXZOGO promotes statistically significant growth.^{1*}
Growth increase was maintained over baseline at 4 years.^{1,38}
*Compared to placebo.



Maximize time on treatment by starting early and continuing until growth plates close. 1,2,5

BioMarin is a leader in skeletal conditions, with over 10 years of VOXZOGO clinical trial experience in achondroplasia³⁷

VOXZOGO° (vosoritide) for injection

Scan the QR code or go to VOXZOGO.com/HCP to enroll your patients



IMPORTANT SAFETY INFORMATION

Special Populations:

- There are no available data on the use of VOXZOGO in pregnant women, or data on the presence of VOXZOGO in human milk, the effects on the breastfed infant, or the effects on milk production.
- The influence of renal impairment on the pharmacokinetics of VOXZOGO has not been evaluated. No dosage adjustment is needed for patients with eGFR ≥60 mL/min/1.73 m². VOXZOGO is not recommended for patients with eGFR <60 mL/min/1.73 m².

