

IMPORTANT SAFETY INFORMATION FOR TRIPTODUR INDICATION

TRIPTODUR is indicated for the treatment of pediatric patients 2 years of age and older with central precocious puberty (CPP).

IMPORTANT SAFETY INFORMATION

Contraindications

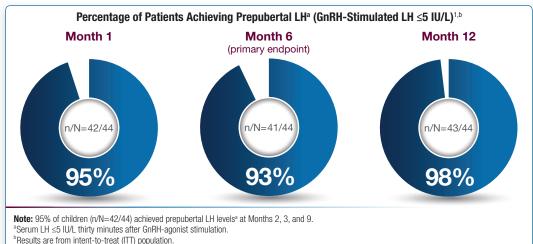
TRIPTODUR is contraindicated in:

- Individuals with a known hypersensitivity to triptorelin or any other component of the product, or other GnRH agonists or GnRH.
- Women who are or may become pregnant. Expected hormonal changes that occur with TRIPTODUR treatment increase the risk
 for pregnancy loss and fetal harm when administered to a pregnant woman. If this drug is used during pregnancy,
 or if the patient becomes pregnant while taking this drug, the patient should be advised of the potential risk to the fetus.



TRIPTODUR (triptorelin) was proven to be effective and well tolerated in a multicenter phase 3 study^{1,2}

TRIPTODUR demonstrated LH suppression to prepubertal levels in 93% of children at Month 6 (primary endpoint)¹



- 44 children (39 females) with CPP, 2 to 9 years of age, who were naive to previous GnRHa therapy were administered TRIPTODUR 22.5 mg at a dosing interval of 24 weeks and were evaluated over 2 dosing intervals for a total of 12 months^{1,2}
- TRIPTODUR demonstrated effective suppression of stimulated LH throughout the study⁴

98% of children achieved LH suppression with TRIPTODUR at Month 121

There were no substantial, unexpected, or clinically significant changes in laboratory parameters or vital signs in children receiving TRIPTODUR²

- Three patients presented with nonsuppressed LH levels at Month 6²
 - —Two of these nonresponders showed prepubertal levels at Month 12, one of whom had a borderline LH value of 5.1 IU/L at Month 6 but a suppressed testosterone level of 2 ng/dL. The other encountered a technical problem with the first injection, which is likely to have played a significant role regarding this treatment failure.
 - —The third nonresponder was a 9-year-old overweight boy with a BMI of 23.1 kg/m², who may have required a higher drug dose for adequate hormonal suppression, or who may represent one of the rare children with CPP who do not achieve suppression with GnRH agonists.

LH, luteinizing hormone. BMI, body mass index.

IMPORTANT SAFETY INFORMATION (continued)

Warnings and Precautions

Initial Rise of Gonadotropins and Sex Steroid Levels – During the early phase of therapy, gonadotropins and sex steroids rise above baseline because of the initial stimulatory effect of the drug. Therefore, a transient increase in clinical signs and symptoms of puberty, including vaginal bleeding, may be observed during the first weeks of therapy or after subsequent doses.

Clinical signs of puberty

TRIPTODUR (triptorelin) arrested or reversed progression of clinical signs of puberty^{1,2}

Children Achieving Endpoint, %1,2,a

95% (n/N=42/44)

95% of children showed no increase in the bone age/ chronological age ratio at **Month 12**—indicating a slowing of accelerated bone maturation^b

89% (n/N=39/44)

The Tanner stage* was stable or nonprogressed in 89% of patients between baseline and Month 12°

Results are from ITT population. Month 6 data: 64% (n/N=28/44). Month 6 data: 91% (n/N=40/44).

At Month 6, 93% of children achieved LH suppression with TRIPTODUR (primary endpoint).1

*Tanner stage refers to a scale used to measure the onset and progression of pubertal changes as determined by the physical development of secondary sex characteristics.⁵



IMPORTANT SAFETY INFORMATION (continued)

Warnings and Precautions

Psychiatric Events – Psychiatric events have been reported in patients taking GnRH agonists. Postmarketing reports with this class of drugs include symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms during treatment with TRIPTODUR.

TRIPTODUR CARES

Enroll your patients today:

Toll Free: (833) 401-CARE (2273)

Fax: (877) 650-7041

E-Prescribe:

PANTHERx Rare NPI: 1316213531 24 Summit Park Drive Pittsburgh, PA 15275



Copay Assistance Program



Prior authorization support & appeal assistance



Support team available from 8:00 a.m. - 8:00 p.m. ET, Monday - Friday





TERMS AND CONDITIONS

By using TRIPTODUR Copay Assistance, you certify that you currently meet the eligibility criteria and will comply with the Terms and Conditions described below

- Copay Assistance is not valid for prescriptions that are eligible to be reimbursed, in whole or in part, by Medicaid, Medicare, or other federal or state healthcare programs (including any state prescription drug assistance programs and the Government Health Insurance Plan available in Puerto Rico (formerly known as "La Reforma De Salud").
- Copay Assistance is not valid for prescriptions that are eligible to be reimbursed by private insurance plans or other health or pharmacy benefit programs that reimburse you for the entire cost of your prescription drugs.
- Insured must be 18 years of age or older; patients must be 2 years of age or older.
- Each patient is limited to one active Copay Assistance offer at a time during this offering period, and the Copay Assistance offer is not transferable.
- Copay Assistance may be used once every 145 days. Maximum savings
 of \$10,000 per year. Up to \$10,000 off of your out-of-pocket cost on the
 1st fill and the remaining balance off the out-of-pocket cost on the 2nd fill
 after patients pay the first \$5 for each fill.

- Copay Assistance cannot be combined with any other rebate or coupon, free trial, or similar offer for the specified prescription.
- Copay Assistance will be accepted at participating pharmacies.
- · Copay Assistance is not health insurance.
- Patients without insurance or for whom their insurance will not cover the medication are entitled to up to \$10,000 off of their out-of-pocket cost on the 1st fill and the remaining balance off the out-of-pocket cost on the 2nd fill
- This offer is good only in the United States and Puerto Rico as allowed by law.
- Arbor reserves the right to rescind, revoke, or amend Copay Assistance without notice.
- Offer valid from 1/1/2021 to 12/31/2021. No membership fees apply.



Long-Lasting LH Suppression With Only 2 Injections per Year¹

TRIPTODUR (triptorelin) is the first FDA-approved, twice-yearly injectable GnRHa for central precocious puberty¹



LH suppression to prepubertal levels¹

 93% of children achieved LH suppression with TRIPTODUR at Month 6 (primary endpoint).¹

Fewer injections, less burden

- TRIPTODUR may reduce the time burden associated with more frequent injections on patients and providers.
- No coordination of surgical procedures.

Demonstrated **effective suppression of stimulated LH** throughout the study⁴

Arrested or reversed progression of clinical signs of puberty at Month 12^{1,2}

Well tolerated with no discontinuations over the course of the study^{1,2}

TRIPTODUR is contraindicated in:

- Individuals with a known hypersensitivity to triptorelin or any other component of the product, or other GnRH agonists or GnRH.
- Women who are or may become pregnant.
 If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be advised of the potential risk to the fetus.



The **TRIPTODUR Care Program** provides streamlined and personalized support for patients and healthcare providers, including a dedicated case manager.

To learn more about the **TRIPTODUR Care Program** and patient copay support, call us toll free at **(833) 401-CARE (2273)** or visit **www.Triptodur.com/hcp.**

Our support team is available from 8:00 a.m. - 8:00 p.m. ET, Monday - Friday to assist you with any of your TRIPTODUR needs, including insurance and access support.

IMPORTANT SAFETY INFORMATION (continued)

Warnings and Precautions

Convulsions – Postmarketing reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. These included patients with a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions such as bupropion and SSRIs. Convulsions have also been reported in patients in the absence of any of the conditions mentioned above.

Adverse Reactions

In clinical trials for TRIPTODUR, the most common adverse reactions (≥4.5%) are injection site reactions, menstrual (vaginal) bleeding, hot flush, headache, cough, and infections (bronchitis, gastroenteritis, influenza, nasopharyngitis, otitis externa, pharyngitis, sinusitis, and upper respiratory tract infection).

You are encouraged to report side effects of prescription drugs to Arbor Pharmaceuticals, LLC Medical Information at 1-866-516-4950 or to the FDA at www.fda.gov/medwatch or call 1-800-FDA-1088.

Twice-Yearly Dosing—Fewer Injections May Lessen the Time Burden for Patients and Providers

TRIPTODUR (triptorelin) is administered as a single intramuscular injection just once every 6 months¹

Treatment Options	for CPP ^{1,3}		
Injections per Year			
Injection Every month (4 weeks)		A A A A A A A A A A A A A A A A A A A	Thirteen injections per year
Injection Every 3 months (12 weeks)		Four	injections per year
Injection Every 6 months (24 weeks)		Two	injections per year
Implant			
Surgical Subcutaneous Implant* Once every 12 months		*Surgical procedure involving the use of anesthesia. The method of anesthesia utilized (ie, local, conscious sedation, general) is at the discretion of the healthcare provider.	

Learn more at www.Triptodur.com/HCP

IMPORTANT SAFETY INFORMATION FOR TRIPTODUR

INDICATION

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IMPORTANT SAFETY INFORMATION

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Psychiatric Events – Psychiatric events have been reported in patients taking GnRH agonists. Postmarketing reports with this class of drugs include symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms during treatment with TRIPTODUR.

Convulsions – Postmarketing reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. These included patients with a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions such as bupropion and SSRIs. Convulsions have also been reported in patients in the absence of any of the conditions mentioned above.

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You are encouraged to report side effects of prescription drugs to Arbor Pharmaceuticals, LLC Medical Information at 1-866-516-4950 or to the FDA at www.fda.gov/medwatch or call 1-800-FDA-1088.

For additional safety information, please see accompanying TRIPTODUR full Prescribing Information or visit www.triptodur.com/hcp.

References: 1. Triptodur [package insert]. Atlanta, GA: Arbor Pharmaceuticals, LLC. 2. Klein K, Yang J, Aisenberg J, et al. Efficacy and safety of triptorelin 6-month formulation in patients with central precocious puberty. J Pediatr Endocrinol Metab. 2016;29(11):1241-1248. 3. Carel JC, Eugster EA, Rogol A, et al. Consensus statement on the use of gonadotropin-releasing hormone analogs in children. Pediatrics. 2009;123(4):e752-e762. 4. Data on file, Arbor Pharmaceuticals. 5. Emmanuel M, Bokor BR. Tanner Stages. In: StatPearls. StatPearls Publishing; 2020. https://www.ncbi.nlm.nih.gov/books/NBK470280.



Triptodur (triptorelin)
for extended release injectable suspension

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use TRIPTODUR® safely and effectively. See full prescribing information for TRIPTODUR. TRIPTODUR (triptorelin) for extended-release injectable suspension,

for intramuscular use

Initial U.S. Approval: 2000

---RECENT MAJOR CHANGES-Dosage and Administration (2.3) Dosage and Administration (2.1)

----INDICATIONS AND USAGE---TRIPTODUR is a gonadotropin releasing hormone (GnRH) agonist indicated for the treatment of pediatric patients 2 years and older with central precocious puberty. (1)

-----DOSAGE AND ADMINISTRATION--

- Must only be administered by a healthcare provider. (2.1) · Administer TRIPTODUR as a single intramuscular injection of 22.5 mg once every 24 weeks. (2.1)
- Monitor response with LH levels after a GnRH or GnRH agonist stimulation test, basal LH, or serum concentration of sex steroid levels beginning 1 to 2 months following initiation of therapy, during therapy as necessary to confirm maintenance of efficacy, and with each subsequent dose, (2.2)
- Measure height every 3-6 months and monitor bone age periodically. (2.2)
- · See FPI for complete reconstitution and administration instructions. (2.3) Once TRIPTODUR is mixed, proceed to the next steps and administer without
- The injection of the suspension should be performed rapidly and in a steady and uninterrupted manner in order to avoid any potential blockage of the needle. (2.3)

-----DOSAGE FORMS AND STRENGTHS--For extended-release injectable suspension: 22.5 mg of triptorelin as a powder cake for reconstitution with the co-packaged 2 mL of diluent (sterile water) for injection. (3)

---CONTRAINDICATIONS----

- Hypersensitivity reactions (4)
- Pregnancy (4, 8.1)
- ---WARNINGS AND PRECAUTIONS-
- Initial Rise of Gonadotropins and Sex Steroid Levels: An increase in clinical signs and symptoms of puberty may be observed during the first 2-4 weeks of therapy since gonadotropins and sex steroids rise above baseline because of the initial stimulatory effect of the drug. (5.1)
- Psychiatric events have been reported in patients taking GnRH agonists. Events include emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms. (5.2)
- Convulsions have been observed in patients with or without a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and in patients on concomitant medications that have been associated with convulsions. (5.3)

---ADVERSE REACTIONS----

In clinical trials for TRIPTODUR, the most common adverse reactions (\geq 4.5%) are injection site reactions, menstrual (vaginal) bleeding, hot flush, headache, cough, and infections (bronchitis, gastroenteritis, influenza, nasopharyngitis, otitis externa, pharyngitis, sinusitis, and upper respiratory tract infection). (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Arbor Pharmaceuticals, LLC at 1-866-516-4950 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 10/2018

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*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE

TRIPTODUR is indicated for the treatment of pediatric patients 2 years of age and older with central precocious puberty (CPP).

DOSAGE AND ADMINISTRATION

2.1 Dosing Information

TRIPTODUR must only be administered by a healthcare provider.

The dosage of TRIPTODUR is 22.5 mg reconstituted with accompanying diluent (sterile water) 2 mL, and administered as a single intramuscular injection once every

TRIPTODUR treatment should be discontinued at the appropriate age of onset of puberty at the discretion of the physician.

2.2 Monitoring

Monitor response to TRIPTODUR with LH levels after a GnRH or GnRH agonist stimulation test, basal LH, or serum concentration of sex steroid levels beginning 1 to 2 months following initiation of therapy, during therapy as necessary to confirm maintenance of efficacy, and with each subsequent dose. Measure height (for calculation of growth rate) every 3-6 months and monitor bone

Noncompliance with drug regimen or inadequate dosing may result in inadequate

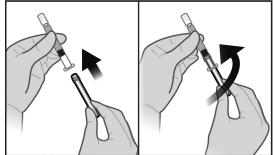
control of the pubertal process with gonadotropins and/or sex steroids increasing above prepubertal levels. If the dose of TRIPTODUR is not adequate switching to an alternative GnRH agonist for the treatment of CPP with the ability for dose adjustment may be necessary

2.3 **Reconstitution and Administration Instructions**

*** Triptodur should be injected immediately after reconstitution in accordance with the detailed instructions below. ***

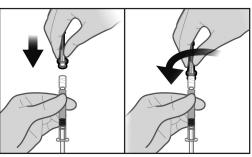
Please read these instructions completely before you begin.

- 1. Use appropriate aseptic technique for preparation and administration.
- Screw the plunger rod into the barrel end of the prefilled sterile water diluent syringe

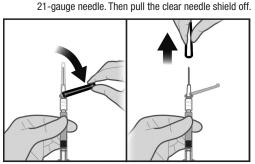


3. To remove the cap, twist to separate from the Luer lock on the syringe barrel.

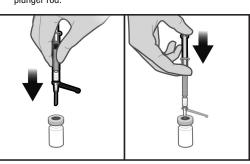
4. Firmly attach one of the 21-gauge sterile safety needles onto the prefilled sterile water diluent syringe with a push and clockwise twist. This 21-gauge needle will only be used for reconstitution of the product.



- Remove the plastic Flip-off from the vial. Disinfect the visible part of
- Pull back on the safety cover towards the syringe and away from the



Insert the 21-gauge needle through the stopper. Inject the sterile water diluent into the vial, ensuring the diluent rinses the sides of the vial. Do not release the



6. If the syringe plunger is not maintained in position, it will naturally withdraw product into the syringe. Thoroughly mix the vial with agitation for 30 to 60 seconds, ensuring the diluent rinses the sides of the vial.



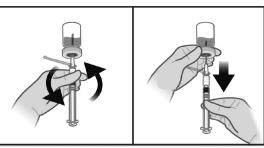
- Before moving on to the next step, check visually that the suspension appears milky and homogeneous without any visible aggregates or precipitates
 - If the suspension DOES NOT appear milky and homogenous without any visible aggregates or precipitates, continue with the agitation. An up and down agitation can also be used to help eliminate aggregates or precipitates. The complete and homogeneous (milky) suspension of the product may require up to 60 seconds of agitation.

Important: Once mixed, proceed to the next steps and administer without delay. 8. The suspension will sediment very quickly so it is imperative to withdraw the

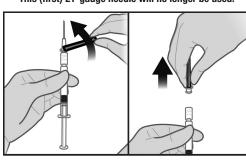
suspension into the syringe directly after suspending the product in the vial. If the sequence of steps to prepare the suspension is interrupted and/or the vial

is put aside, the suspension will start to separate into diluent and microgranules.

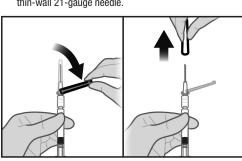
- 9. Invert the vial and move back the syringe in order to position the end of the 21-gauge needle very near the level of the stopper, making sure the needle lumen is still completely in the vial.
- 10. Pull back the plunger rod slowly to withdraw the reconstituted product into the syringe, withdrawing as much of the reconstituted product into the syringe as possible. Move the tip of the needle at the level of the stopper so as to be able to withdraw a maximum amount of suspension.



11. Withdraw the needle from the vial and push the safety cover forward toward the needle until you hear and/or feel it lock. Then remove the first 21-gauge needle by grasping the needle hub to disconnect the needle from the syringe and discard it. This (first) 21-gauge needle will no longer be used.



12. Firmly attach the second sterile needle onto the syringe with a push and clockwise twist and pull back the safety cover towards the syringe. This 21-gauge needle will be used for administration. Triptodur must only be administered with a thin-wall 21-gauge needle.



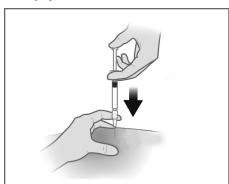
13. Inspect the suspension visually for particulate matter and discoloration

To minimize the risk of needle blockage during the injection, ensure that the preparation of the injection is not interrupted and/or the mixed suspension syringe is not put aside because the suspension will sediment quickly.

a. If the suspension appears milky and homogenous without visible

- aggregates or precipitates, then prime the needle and administer the suspension immediately.
 - Do not prime the needle if the suspension does not appear milky and homogenous
 - If the suspension does not appear milky and homogenous, continue with an up and down agitation Prime the needle immediately prior to administration of the
- homogenous suspension

14. Inject the patient intramuscularly, preferably in either buttock or thigh, using the entire contents of the syringe. The injection of the suspension should be performed rapidly and in a steady and uninterrupted manner in order to avoid any potential blockage of the needle. Triptodur must only be administered with a thin-wall 21-gauge needle.



15. After administering the injection, immediately activate the safety cover:

- a. Center your thumb or forefinger on the textured finger pad area of the safety cover and push it forward over the needle until you hear or feel it lock.
- Use the one-handed technique and activate the mechanism away from yourself and others.
- Immediately discard the syringe assembly into a suitable sharps container.

DOSAGE FORMS AND STRENGTHS

For extended-release injectable suspension: 22.5 mg of triptorelin as a lyophilized white to slightly yellow powder cake in a single-dose vial for reconstitution with the co-packaged 2 mL of diluent (sterile water) for injection.

- Hypersensitivity: TRIPTODUR is contraindicated in individuals with a known hypersensitivity to triptorelin, any other component of the product, or other GnRH agonists or GnRH [see Adverse Reactions (6.2)].
- Pregnancy: TRIPTODUR may cause fetal harm [see Use in Specific Populations (8.1)].

WARNINGS AND PRECAUTIONS

Initial Rise of Gonadotropins and Sex Steroid Levels

During the early phase of initial therapy or after subsequent doses, gonadotropins and sex steroids may rise above baseline because of a transient stimulatory effect of the drug [see Clinical Pharmacology (12.2)]. Therefore, a transient increase in clinical signs and symptoms of puberty, including vaginal bleeding, may be observed during the first weeks of therapy or after subsequent doses.

5.2 Psychiatric Events

Psychiatric events have been reported in patients taking GnRH agonists, including triptorelin. Postmarketing reports with this class of drugs include symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression. Monitor for development or worsening of psychiatric symptoms during treatment with TRIPTODUR [see Adverse Reactions (6)].

5.3 Convulsions

Postmarketing reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. These included patients with a history of seizures, epilepsy, cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions such as bupropion and SSRIs. Convulsions have also been reported in patients in the absence of any of the conditions mentioned above [see Adverse Reactions (6)].

ADVERSE REACTIONS The following serious adverse reactions are described here and elsewhere in the label:

- Initial Rise of Gonadotropins and Sex Steroid Levels [see Warnings and
- Psychiatric Events [see Warnings and Precautions (5.2)] Convulsions [see Warnings and Precautions (5.3)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of TRIPTODUR was evaluated in one uncontrolled, open-label single-arm clinical trial in which 44 children with central precocious puberty received two doses of TRIPTODUR and were observed for 12 months. The median age of the study population was 8 years (range 2-9 years) at treatment start; 88.6% of subjects were female, 59.1% were White, 27.3% were Black and 4.5% were Asian. Table 1 shows all the adverse reactions that occurred in at least 2 patients (≥4.5%) during the open-label

Table 1: Adverse Reactions¹ Occurring in ≥ 2 Patients Treated with TRIPTODUR in

Adverse Reactions	Number of Patients Reporting Event (%) (Total N=44)
Infections & Infestations	
Bronchitis	2 (4.5)
Gastroenteritis	3 (6.8)
Influenza	2 (4.5)
Nasopharyngitis	6 (13.6)
Otitis externa	2 (4.5)
Pharyngitis	2 (4.5)
Sinusitis	2 (4.5)
Upper respiratory tract infection	4 (9.1)
Nervous System Disorders	
Headache	6 (13.6)
Reproductive System & Breast Disorders	
Menstrual (Vaginal bleeding) ²	3 (7.7)
Respiratory, Thoracic & Mediastinal Disorder	
Cough	3 (6.8)
Vascular Disorders	
Hot flush	2 (4.5)

Hot flush Injection site reactions are presented separately

²Includes % of patients with vaginal bleeding or menstrual disorder ("menstrual cycle returned") in 39 females out of N=44.

Other Selected Adverse Reactions: Injection Site Reactions

6.2 Postmarketing Experience

Injection site reactions occurring in patients immediately and/or 2 hours after injection include pain (45%), redness (14%), pruritus (2.3%) and swelling (2.3%). Psychiatric Disorders Anxiety (2.3%) and mood altered (2.3%)

Because these reactions are reported voluntarily from a population of uncertain size,

it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure The following adverse reactions were reported from postmarketing experience of

triptorelin in patients with CPP: Hypersensitivity Reactions: Anaphylactic shock, anaphylactoid reaction,

angioedema, urticaria Cardiovascular: Hypertension.

Psychiatric: Emotional lability, such as crying, irritability, impatience, anger, and aggression, has been observed with GnRH agonists, including triptorelin [see Warnings and Precautions (5.2)]; Depression, including rare reports of suicidal ideation and attempt, has been reported for GnRH agonists in children treated for CPP. Many, but not all, of these patients had a history of psychiatric illness or other comorbidities with an increased risk of depression.

Nervous System: Convulsions [see Warnings and Precautions (5.3)] Vision Disorders: Visual impairment, visual disturbance

DRUG INTERACTIONS

7.1 Drug-Drug Interactions

Results of *in vitro* studies show that drug-drug interactions with triptorelin are unlikely [see Clinical Pharmacology (12.3)]. However, in the absence of relevant data and as a precaution, hyperprolactinemic drugs should not be used concomitantly with triptorelin since hyperprolactinemia reduces the number of pituitary GnRH receptors.

7.2 Drug-Laboratory Test Interactions

Administration of TRIPTODUR results in suppression of the pituitary-gonadal system. The effect of TRIPTODUR on pituitary and gonadal function is expected to disappear within six to twelve months after treatment discontinuation. Therefore, diagnostic tests of pituitary gonadotropic and gonadal functions conducted during treatment or after discontinuation of treatment may be affected.

USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

TRIPTODUR is contraindicated in women who are pregnant [see Contraindications (4)] since expected hormonal changes that occur with TRIPTODUR treatment increase the risk for pregnancy loss. Available data with triptorelin use in pregnant women are insufficient to determine a drug-associated risk of adverse developmental outcomes. Based on mechanism of action in humans and findings of increased pregnancy loss in animal studies, TRIPTODUR may cause fetal harm when administered to pregnant women. Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the US general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%-4% and 15%-20%, respectively.

<u>Data</u>

Animal Data

In pregnant rats administered triptorelin at doses of 2, 10, and 100 mcg/kg/day during the period of organogenesis, maternal toxicity (decrease in body weight) and embryo $fetal\ toxicities\ (pre-implantation\ loss, increased\ resorption, and\ reduced\ number\ of$ viable fetuses) were observed at 100 mcg/kg, approximately 4 times the clinical dose based on body surface area. No embryonic and fetal developmental toxicities were observed in mice at doses up to 4 times the clinical dose. Teratogenic effects were not observed in viable fetuses in rats or mice.

Risk Summary

There are no data on the presence of triptorelin in human milk, or the effects of the drug on the breastfed infant, or on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TRIPTODUR and any potential adverse effects on the breastfed child from TRIPTODUR or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of TRIPTODUR have been established in pediatric patients 2 years of age and older based on a single-arm open-label study of 44 children 2-9 years of age with CPP [see Clinical Studies (14)]. The safety and effectiveness of TRIPTODUR have not been established in pediatric patients less than 2 years old

Renal Impairment

TRIPTODUR has not been studied in children with renal impairment. Adult subjects with renal impairment had higher exposure than young healthy adult males [see Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment

TRIPTODUR has not been studied in children with hepatic impairment. Adult subjects with hepatic impairment had higher exposure than young healthy adult males [see Clinical Pharmacology (12.3)].

OVERDOSAGE

There is no experience with overdosage in clinical trials of triptorelin. If overdosage occurs, therapy should be discontinued and appropriate supportive and symptomatic

weight is 1699.9 and the structural formula is:

TRIPTODUR contains the pamoate salt of triptorelin, a synthetic decapeptide analog of naturally occurring gonadotropin-releasing hormone (GnRH or LHRH). The chemical name of triptorelin pamoate is 5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl- $\hbox{$D$-tryptophyl-L-leucyl-L-arginyl-L-prolylglycine amide (pamoate salt). The molecular}$

provided as a sterile, lyophilized, biodegradable microgranule formulation in a singledose vial, co-packaged with a syringe containing 2 mL diluent (sterile water) for injection for reconstitution of the lyophilisate. The triptorelin formulation is comprised of 22.5 mg triptorelin (equivalent to 31 mg triptorelin pamoate), poly-d,I-lactide-coglycolide (183 mg), mannitol (74 mg), carboxymethylcellulose sodium (26 mg), and polysorbate 80 (1.7 mg). When 2 mL diluent (sterile water) for injection is added to the vial containing TRIPTODUR and mixed, a suspension is formed which is intended as a single intramuscular injection.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Triptorelin is a GnRH agonist.

12.2 Pharmacodynamics

Following the first administration, there is a transient surge in circulating levels of LH, FSH, testosterone, and estradiol *[see Warnings and Precautions (5.2)]*, After chronic and continuous administration, by 4 weeks after initiation of therapy, a sustained decrease in LH and FSH secretion and marked reduction in sex steroids are observed.

12.3 Pharmacokinetics

Absorption

After an initial intramuscular TRIPTODUR 22.5 mg injection and a second 22.5 mg intramuscular injection 24 weeks later in children 2 to 9 years old with CPP, triptorelin peaked 4 hours postdose with a geometric mean C_{max} of 39.9 and 36.5 ng/mL, respectively. No apparent accumulation of triptorelin occurred after the second injection. Absorption occurred in two phases, a burst phase followed by a maintenance release phase. In children with CPP, following the burst phase after the first 22.5 mg injection, geometric mean serum triptorelin levels were 0.11, 0.17, 0.05 and 0.03 ng/mL at Months 1, 2, 3, and 6, respectively.

Distribution

There is no evidence that triptorelin, at clinically relevant concentrations, binds to plasma proteins.

Elimination

Metabolism The metabolism of triptorelin in humans is unknown, but is unlikely to involve hepatic microsomal enzymes (cytochrome P450). Thus far no metabolites of triptorelin have been identified. Pharmacokinetic data suggest that C-terminal fragments produced by tissue degradation are either completely degraded in the tissues, or rapidly degraded in plasma, or cleared by the kidneys.

Triptorelin is eliminated by both the liver and the kidneys. Following intravenous administration of 0.5 mg triptorelin peptide to six healthy male volunteers with a creatinine clearance of 149.9 mL/min, 41.7% of the dose was excreted in urine as intact peptide with a total triptorelin clearance of 211.9 mL/min. This percentage increased to 62.3% in patients with liver disease who have a lower creatinine clearance (89.9 mL/min). It has also been observed that the nonrenal clearance of triptorelin (patient anuric, $Cl_{creat} = 0$) was 76.2 mL/min, thus indicating that the nonrenal elimination of triptorelin is mainly dependent on the liver.

Specific Populations

Renal Impairment

After intravenous bolus injection of 0.5 mg triptorelin in adults, the two distribution half-lives were unaffected by renal impairment. However, renal insufficiency led to a decrease in total triptorelin clearance proportional to the decrease in creatinine clearance as well as increases in volume of distribution and consequently, an increase in the elimination half-life. Adult male subjects with moderate or severe renal impairment had approximately 2-fold higher exposure (AUC values) than young healthy adult males (see Table 1) [see Use in Specific Populations (8.6)]. Hepatic Impairment

After intravenous bolus injection of 0.5 mg triptorelin in adults, the two distribution half-lives were unaffected by hepatic impairment. In adult males with hepatic insufficiency, triptorelin clearance was reduced and exposure (AUC) was increased

Populations (8.7)]. Table 2: Pharmacokinetic Parameters (Mean ± SD) in Healthy Adults, Adults with Renal Impairment, and Adults with Hepatic Impairment Following an I.V. Bolus of 0.5 mg Triptorelin in Solution

3.7-fold compared to young healthy adult males (Table 2) [see Use in Specific

		• .				
Group	C _{max} (ng/mL)	AUC _{inf} (h•ng/mL)	CI _p (mL/min)	CI _{renal} (mL/min)	t _{1/2} (h)	CI _{creat} (mL/min)
6 healthy male volunteers	48.2 ±11.8	36.1 ±5.8	211.9 ±31.6	90.6 ±35.3	2.81 ±1.21	149.9 ±7.3
6 males with moderate renal impairment	45.6 ±20.5	69.9 ±24.6	120.0 ±45.0	23.3 ±17.6	6.56 ±1.25	39.7 ±22.5
6 males with severe renal impairment	46.5 ±14.0	88.0 ±18.4	88.6 ±19.7	4.3 ±2.9	7.65 ±1.25	8.9 ±6.0
6 males with liver disease	54.1 ±5.3	131.9 ±18.1	57.8 ±8.0	35.9 ±5.0	7.58 ±1.17	89.9 ±15.1

Drug-Drug Interactions

In Vitro Assessment of Drug Interactions

Drug Metabolizing Enzyme Inhibition

Triptorelin did not inhibit CYP1A2, 2B6, 2C8, 2C9, 2C19 or 2D6, or CYP 3A4/5 at clinically relevant concentrations.

Drug Metabolizing Enzyme Induction

In fresh human hepatocytes from three human donors, triptorelin did not induce CYP1A2 or CYP3A4/5 activity.

Triptorelin was a poor P-gp substrate and had no inhibitory effect toward P-gp.

NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis was evaluated in an 18-month study in mice and a 24-month study in rats. In rats, triptorelin doses of 120, 600, and 3000 mcg/kg given every 28 days (approximately 0.2, 0.8, and 4 times the estimated human monthly dose based on body surface area) resulted in increased mortality with a drug treatment period of 13 to 19 months. The incidences of benign and malignant pituitary tumors and histosarcomas were increased in a dose-related manner. There were no treatmentrelated tumors in mice at exposure up to 4-fold higher than the estimated human monthly dose based on body surface area.

Mutagenicity studies performed with triptorelin using bacterial and mammalian systems (in vitro Ames test and chromosomal aberration test in CHO cells and an in vivo mouse micronucleus test) provided no evidence of mutagenic potential.

After 60 days of subcutaneous treatment followed by a minimum of four estrus cycles prior to mating, triptorelin at doses of 2, 20, and 200 mcg/kg (approximately 0.07, 0.7, and 7 times the estimated human daily dose based on body surface area) or two monthly injections as slow release microspheres (~20 mcg/kg/day) had no effect on the fertility or general reproductive function of female rats.

No studies were conducted to assess the effect of triptorelin on male fertility.

14 CLINICAL STUDIES

In a single-arm open-label study, 44 children 2 to 9 years of age with CPP, 39 females and 5 males, all naïve to previous GnRH agonist treatment, were administered TRIPTODUR 22.5 mg at a dosing interval of 24 weeks. Subjects were evaluated over two dosing intervals for a total of 12 months.

TRIPTODUR 22.5 mg suppressed pituitary release of LH and FSH and, consequently, gonadal secretion of estradiol in girls and testosterone in boys (Table 3). At all timepoints evaluated, \geq 93% of children achieved LH suppression to prepubertal levels (i.e., serum LH \leq 5 IU/L 30 minutes after GnRH agonist stimulation), \geq 79% of girls achieved prepubertal levels of estradiol (i.e., <20 pg/mL), and ≥80% of boys achieved prepubertal levels of testosterone (i.e., <30 ng/dL). TRIPTODUR arrested or reversed progression of clinical signs of puberty with 95% of children showing no increase in the bone age/chronological age ratio, and 89% showing stabilization of sexual maturation at Month 12.

Table 3: Efficacy of TRIPTODUR 22.5 mg Administered Every 6 Months to Children with CPP^a

Omiaio						
F 1	% (n/N) of Children Achieving Endpoint					
Endpoint	Month 1	Month 2	Month 3	Month 6	Month 9	Month 12
% with prepubertal LH (GnRH-stim LH ≤5 IU/L)	95% (42/44)	95% (42/44)	95% (42/44)	93% ^b (41/44)	95% (42/44)	98% (43/44)
% girls with prepubertal estradiol (<20 pg/mL)	87% (34/39)	89% (34/38)	92% (36/39)	79% (31/39)	82% (32/39)	79% (31/39)
% boys with prepubertal testosterone (<30 ng/dL)	80% (4/5)	80% (4/5)	100% (5/5)	100% (5/5)	80% (4/5)	80% (4/5)
% with no increase in BA/CA° ratio vs. baseline				64% (28/44)		95% (42/44)
% achieving stabilization of sexual maturation				91% (40/44)		89% (39/44)
% girls with regression of uterine length				69% (27/39)		77% (30/39)
% boys with no progression in testis volumes				100% (5/5)		100% (5/5)

- a- Intent-to-Treat population b- Primary efficacy endpoint
- c- Bone Age/Chronological Age

Following the second TRIPTODUR injection, 22 children (all girls) were assessed for evidence of an acute-on-chronic phenomenon (i.e., increase in basal LH >5 IU/L or serum estradiol level >20 pg/mL 48 hours after the second triptorelin injection). Of these, one girl who achieved prepubertal hormone levels prior to the second injection showed biochemical evidence of acute-on-chronic phenomenon [see Warnings and Precautions (5.2) and Adverse Reactions (6.1)].

HOW SUPPLIED/STORAGE AND HANDLING

- Each TRIPTODUR 22.5 mg single-use kit (NDC 24338-150-20) contains:
- One single-dose brown-tinted vial of TRIPTODUR 22.5 mg (NDC 24338-150-01) with a Flip-Off seal containing sterile lyophilized white to slightly yellow powder cake One sterile, glass syringe with Luer Lock prefilled with 2 mL of diluent (sterile
- water) for injection (NDC 24338-150-02) Two sterile 21 gauge, 11/2" needles (thin-wall) with safety cover
- One Package Insert

Store at 20-25°C (68-77°F) [see USP Controlled Room Temperature]. Do not freeze. PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and

Hypersensitivity Reactions

Inform caregivers that anaphylactic shock, hypersensitivity, and angioedema have been reported with triptorelin use and to immediately seek medical attention if any hypersensitivity reaction occurs

Symptoms after Initial TRIPTODUR Administration

Inform caregivers that during the first weeks after the first TRIPTODUR injection, signs of puberty may occur such as vaginal bleeding [see Warnings and Precautions (5.1) and Adverse Reactions (6.1)]. Caregivers should notify the physician if these symptoms continue beyond the second month after TRIPTODUR administration.

Psychiatric Events

Inform caregivers that symptoms of emotional lability, such as crying, irritability, impatience, anger, and aggression have been observed in patients receiving GnRH agonists, including triptorelin. Alert caregivers to the possibility of development or worsening of psychiatric symptoms, including depression, during treatment with TRIPTODUR [see Warnings and Precautions (5.2) and Adverse Reactions (6.2)].

Convulsions

Inform caregivers that reports of convulsions have been observed in patients receiving GnRH agonists, including triptorelin. Patients with a history of seizures, epilepsy. cerebrovascular disorders, central nervous system anomalies or tumors, and patients on concomitant medications that have been associated with convulsions may be at increased risk [see Warnings and Precautions (5.3)].

Pregnancy is Contraindicated

TRIPTODUR is contraindicated in pregnancy. If the patient becomes pregnant while taking the drug, the patient should be informed of the potential risk to fetus *[see Use in Specific Populations (8.1)].*

Compliance with the Dosing Schedule Inform caregivers about the importance of adherence to the TRIPTODUR dosing

schedule of one injection every 24 weeks. Patients should not miss or delay a



Manufactured for: Arbor Pharmaceuticals, LLC Atlanta, GA 30328

Manufactured by:

Debiopharm Research & Manufacturing SA

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for intramuscular use What is the most important information I should know

MEDICATION GUIDE TRIPTODUR® [TRIP-toe-der]

(triptorelin)

for extended-release injectable suspension,

about TRIPTODUR? In the first few weeks after your child receives their first TRIPTODUR injection or after additional injections, TRIPTODUR can cause a brief increase in some hormones. During this time you may notice more signs of puberty in your child, including

- vaginal bleeding. Call your child's doctor if signs of puberty continue after 2 months of receiving TRIPTODUR. Some people taking gonadotropin releasing hormone (GnRH) agonists like TRIPTODUR have had new or worsened mental (psychiatric) problems. Mental (psychiatric) problems may
 - include emotional symptoms such as: crying
 - irritability
 - restlessness (impatience)
 - anger
- acting aggressive

Call your child's doctor right away if your child has any new or worsening emotional symptoms while taking TRIPTODUR.

- Some people taking GnRH agonists like TRIPTODUR have had seizures. The risk of seizures may be higher in people who:
 - have a history of seizures
 - have a history of epilepsy
 - have a history of brain or brain vessel (cerebrovascular) problems or tumors
- are taking a medicine that has been connected with seizures such as bupropion or selective serotonin reuptake inhibitors (SSRIs)

Seizures have also happened in people who have not had any of these problems.

Call your child's doctor right away if your child has a seizure while taking TRIPTODUR.

What is TRIPTODUR?

- TRIPTODUR is an injectable prescription GnRH medicine used for the treatment of children with central precocious puberty (CPP).
- It is not known if TRIPTODUR is safe and effective in children under 2 years of age.

TRIPTODUR should not be taken if your child is:

- allergic to gonadotropin releasing hormone (GnRH), GnRH agonist medicines, or any ingredients in TRIPTODUR. See the end of this Medication Guide for a complete list of ingredients in TRIPTODUR.
- Some people taking triptorelin, the active ingredient in TRIPTODUR, have had serious allergic reactions. Call your child's doctor or get emergency medical help right away if your child gets any of the following symptoms of a serious allergic reaction:
 - skin rashes, redness, or swelling
 - trouble breathing or swallowing throat tightness, hoarseness
 - severe itching 0
- 0 fast heart beat swelling of face, mouth, and tongue
- 0 hives
- 0 sweating dizziness or fainting
- pregnant or becomes pregnant. TRIPTODUR can cause birth defects or loss of the baby. If your child becomes pregnant call your doctor.

Before your child receives TRIPTODUR, tell your child's doctor about all of your child's medical conditions, including if they:

- have a history of mental (psychiatric) problems.
- have a history of seizures.
- have a history of epilepsy.
- have a history of brain or brain vessel (cerebrovascular) problems or tumors.
- are breastfeeding or plan to breastfeed. It is not known if TRIPTODUR passes into breastmilk.

Tell the doctor about all the medicines your child takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will your child receive TRIPTODUR?

- Your child's doctor should do tests to make sure your child has CPP before treating them with TRIPTODUR.
- TRIPTODUR must only be given by a healthcare professional.
- TRIPTODUR is given as a single intramuscular (in the muscle) injection 1 time every 24 weeks.
- Keep all scheduled visits to the doctor. **Do not** delay a scheduled dose. The doctor will do regular exams and blood tests to check for signs of puberty.

What are the possible side effects of TRIPTODUR?

TRIPTODUR may cause serious side effects. See "What is the most important information I should know about TRIPTODUR?" The most common side effects of TRIPTODUR include injection site reactions, menstrual (vaginal) bleeding, hot flush, headache, cough, and infections (bronchitis, gastroenteritis, influenza, nasopharyngitis, otitis externa, pharyngitis, sinusitis, and upper respiratory tract infection).

These are not all the possible side effects of TRIPTODUR. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

What are the ingredients in TRIPTODUR?

Active ingredient: triptorelin

Inactive ingredients: poly-d,/-lactide-co-glycolide, mannitol, carboxymethylcellulose sodium, and polysorbate 80

Distributed by: Arbor Pharmaceuticals, LLC, Atlanta, GA 30328 Manufactured by: Debiopharm Research & Manufacturing SA, CH-1920 Martigny, Switzerland

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This Medication Guide has been approved by the

For more information about TRIPTODUR, please contact Arbor Pharmaceuticals, LLC at 1-866-516-4950

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