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FENSOLVI®

(leuprolide acetate) for injectable suspension, 45 mg



♦tolmar

Step 4

Step 5

Step 6

Step 7

towards the syringe

this is acceptable.

product may be lost!

Syringe B plunger.

After mixing, hold the syringes vertically (upright) with

Syringe B (wide syringe) on the bottom. The syringes

should remain securely coupled. Transfer all of the

While ensuring the Syringe A plunger is fully pushed

down, hold the coupling device and unscrew Syringe B.

This will disconnect Syringe B from the coupling device.

Syringe A will remain attached to the coupling device.

Note: Small air bubbles will remain in the formulation

Do not purge the air bubbles from Syringe B as

Continue to hold Syringe B upright with the open end at

prevent loss of the product and attach the safety needle

and cap. Gently screw clockwise with approximately a

become damaged which could result in leakage of

the product during injection. The safety shield may

three-quarter turn until the safety needle and cap

Do not overtighten, as the needle hub may

also be damaged if the safety needle and cap are

Move the safety shield away from the needle and

Pull off the cap immediately prior to administration.

screwed with too much force.

the top. Hold back the white plunger on Syringe B to

mixed product into Syringe B by depressing the

Syringe A plunger and slightly withdrawing the

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use FENSOLVI® safely and effectively. See full prescribing information for FENSOLVI.

FENSOLVI (leuprolide acetate) for injectable suspension, for

-- RECENT MAJOR CHANGES---Dosage and Administration (2.3) Warnings and Precautions (5.4)

Initial U.S. Approval: 1985

-INDICATIONS AND USAGE---FENSOLVI is a gonadotropin releasing hormone (GnRH) agonist indicated for the treatment of pediatric patients 2 years of age

and older with central precocious puberty. (1)

- -- DOSAGE AND ADMINISTRATION Must be administered by a healthcare provider. (2.1) The dose of FENSOLVI is 45 mg administered by
- subcutaneous injection once every six months. (2.1) Monitor response to FENSOLVI with a GnRH agonist stimulation test, basal serum luteinizing hormone (LH) levels or serum concentration of sex steroid levels at 1 to 2 months following initiation of therapy and as needed to confirm adequate suppression of pituitary gonadotropins, sex steroids, and progression of secondary sexual
- characteristics. (2.2) • Measure height every 3 to 6 months and monitor bone
- age periodically. (2.2) See Full Prescribing Information for reconstitution and administration instructions. (2.3, 2.4)
- -- DOSAGE FORMS AND STRENGTHS--
- For injectable suspension: 45 mg of leuprolide acetate. (3)
- -CONTRAINDICATIONS Hypersensitivity reactions (4) Pregnancy (4, 8.1)

• Initial Rise of Gonadotropins and Sex Steroid Levels: During the early phase of therapy, gonadotropins and sex steroids rise

- 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 con-
- Pseudotumor Cerebri (Idiopathic Intracranial Hypertension): Have been reported in pediatric patients receiving GnRH agonists, including leuprolide acetate. Monitor patients for head
- -ADVERSE REACTIONS-pain, nasopharyngitis, pyrexia, headache, cough, abdominal pain, injection site erythema, nausea, constipation, vomiting, upper respiratory tract infection, bronchospasm, productive cough, and hot flush. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Tolmar Pharmaceuticals, Inc. at 1-844-4TOLMAR (1-844-486-5627) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and

Revised: 11/2022

FULL PRESCRIBING INFORMATION: CONTENTS

- INDICATIONS AND USAGE
- DOSAGE AND ADMINISTRATION 2.1 Dosing Information
- 2.3 Reconstitution Instructions
- 3 DOSAGE FORMS AND STRENGTHS
- CONTRAINDICATIONS
- WARNINGS AND PRECAUTIONS 5.1 Initial Rise of Gonadotropins and Sex Steroid
- Psychiatric Event 5.3 Convulsions
- 5.4 Pseudotumor Cerebri (Idiopathic Intracranial
- **6 ADVERSE REACTIONS** 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

- Monitoring
- 2.4 Administration Instruction 11 DESCRIPTION 12 CLINICAL PHARMACOLOGY
 - - 12.3 Pharmacokinetics

 - of Fertility 14 CLINICAL STUDIES
 - 16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing

FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE

FENSOLVI® 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 Informatio

FENSOLVI must be administered by a healthcare provide

The dose of FENSOLVI is 45 mg administered by subcutaneous injection once every six months.

Discontinue FENSOLVI treatment at the appropriate age of onset of puberty.

2.2 Monitoring

Monitor response to FENSOLVI with a GnRH agonist stimulation test, basal serum luteinizing hormone (LH) levels or serum concentration of sex steroid levels at 1 to 2 months following initiation of therapy and as needed to confirm adequate suppression of pituitary gonadotropins, sex steroids, and progression of secondary sexual characteristics. Measure height (for calculation of growth velocity) every 3 to 6 months and monitor bone age periodically.

 $Non compliance\ with\ drug\ regimen\ or\ inadequate\ dosing\ may\ lead\ to\ gonadotropins\ and/or\ sex\ steroids\ increasing\ above\ prepubertal$ levels resulting in inadequate control of the pubertal process. If the dose of FENSOLVI 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 Instructions

Use aseptic technique including gloves for reconstitution and administration. Allow the product to reach room temperature before reconstitution to allow for easier administration. Once reconstituted, the concentration is 45 mg/0.375 mL. Administer the product within 30 minutes or discard

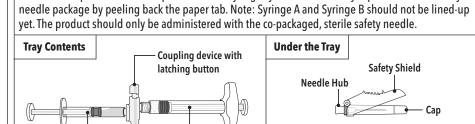
FENSOLVI is packaged in a carton containing:

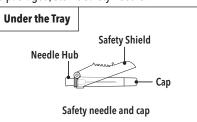
Tray containing pre-connected syringe system and desiccant pack

Sterile safety needle and cap (located under the tray in carton) Follow the detailed instructions below to ensure correct preparation of FENSOLVI prior to administration:

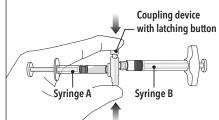
Syringe B

Step 1 On a clean field open the tray by tearing off the foil from the corner and remove the contents. Discard the desiccant pack. Remove the pre-connected syringe system from the tray. Open the sterile safety





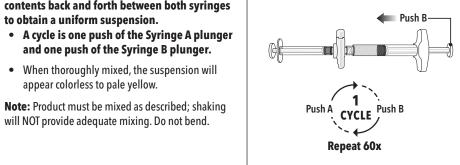
Grasp the latching button on the coupling device with your finger and thumb and press until you hear a snapping sound. The two syringes will be aligned. Do not bend the pre-connected syringe system.



– Push A 🗼

Holding the syringes in a horizontal position, transfer the liquid contents of Syringe A into the leuprolide acetate powder contained in Syringe B. **Thoroughly** mix the product for 60 cycles by pushing the contents back and forth between both syringes to obtain a uniform suspension.

- A cycle is one push of the Syringe A plunger
- When thoroughly mixed, the suspension will
- will NOT provide adequate mixing. Do not bend.



---WARNINGS AND PRECAUTIONS--

above baseline because of the initial stimulatory effect of the drug. Therefore, an increase in clinical signs and symptoms of puberty including vaginal bleeding may be observed during the first weeks of therapy or after subsequent doses. Instruct patients and caregivers to notify the physician if these symptoms continue beyond the second month after FENSOLVI administration. (5.1)

- vulsions. (5.3) ache, papilledema, and blurred vision. (5.4)
- The most common adverse reactions (≥5%) were: injection site

Lactation Females and Males of Reproductive Potential 8.4 Pediatric Use

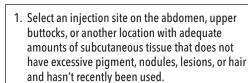
8.1 Pregnancy

8 USE IN SPECIFIC POPULATIONS

- 10 OVERDOSAGE
- 12.1 Mechanism of Action 12.2 Pharmacodynamics
- 13 NONCLINICAL TOXICOLOGY

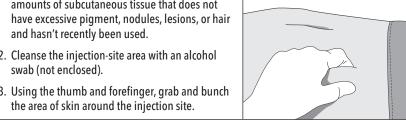
information are not listed

Note: Should the needle hub appear to be damaged, or leak, do not use the product. If the needle hub is damaged or leakage is observed, use a new FENSOLVI carton. 2.4 Administration Instructions



2. Cleanse the injection-site area with an alcohol swab (not enclosed).

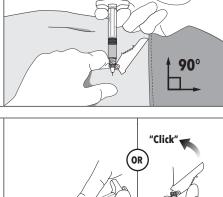
the area of skin around the injection site.



I. Using your dominant hand, insert the needle quickly at a 90° angle to the skin surface. The depth of penetration will depend on the amount and fullness of the subcutaneous tissue and the length of the needle. After the needle is inserted,

. Inject the drug using a slow, steady push and press down on the plunger until the syringe is Make sure all the drug has been injected before

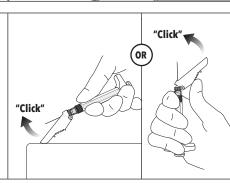
removing the needle Withdraw the needle quickly at the same 90° angle used for insertion.



7. Immediately following the withdrawal of the needle, activate the safety shield using a finger/ thumb or flat surface and push until it completely covers the needle tip and locks into place.

locked position. . Check to confirm the safety shield is fully engaged. Discard all components safely in an

8. An audible and tactile "click" verifies a appropriate biohazard container.



DOSAGE FORMS AND STRENGTHS

Each FENSOLVI carton contains

- Pre-connected syringe system consisting of syringe A and syringe B connected using a coupling device.
 Syringe A contains diluent for reconstitution (in situ polymeric extended release technology) in a prefilled syringe.
 Syringe B contains 45 mg lyophilized leuprolide acetate powder in a single-dose prefilled syringe.
- CONTRAINDICATIONS
- Hypersensitivity to GnRH, GnRH agonists or any of the components of FENSOLVI. Anaphylactic reactions to synthetic GnRH or GnRH agonists have been reported [see Adverse Reactions (6.2)].
- Pregnancy: FENSOLVI may cause fetal harm [see Use in Specific Populations (8.1)].

WARNINGS AND PRECAUTIONS 5.1 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 [see Clinical Pharmacology (12.2)]. Therefore, an increase in clinical signs and symptoms of puberty including vaginal bleeding may be observed during the first weeks of therapy or after subsequent doses [see Adverse Reactions (6)]. Instruct patients and caregivers to notify the physician if these symptoms continue beyond the second month after FENSOLVI administration Psychiatric events have been reported in patients taking GnRH agonists, including leuprolide acetate. 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 FENSOLVI [see Adverse Reactions (6.1, 6.2)]. 5.3 Convulsions

Postmarketing reports of convulsions have been observed in patients receiving GnRH agonists, including leuprolide acetate. 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 (6.2)].

5.4 Pseudotumor Cerebri (Idiopathic Intracranial Hypertension) Pseudotumor cerebri (idiopathic intracranial hypertension) have been reported in pediatric patients receiving GnRH agonists, including leuprolide acetate. Monitor patients for signs and symptoms of pseudotumor cerebri, including headache, papilledema, blurred vision, diplopia, loss of vision, pain behind the eye or pain with eye movement, tinnitus, dizziness, and nausea [see Adverse

Reactions (6.2)]

- The following serious adverse reactions are described here and elsewhere in the label • Initial rise in gonadotropin and sex steroid levels [see Warnings and Precautions (5.1)].
- Psychiatric Events (see Warnings and Precautions (5.2)).
- Convulsions [see Warnings and Precautions (5.3)].
- Pseudotumor Cerebri (Idiopathic Intracranial Hypertension) [see Warnings and Precautions (5.4)]

Spek Trinkaus

Ipek Erdogan-Trinkaus VP Marketing 12/6/2022

Medication Guide

FENSOLVI® (fen-SOL-vee) (leuprolide acetate) injectable suspension, for subcutaneous use

What is the most important information I should know about FENSOLVI?

FENSOLVI may cause serious side effects, including:

- In the first few weeks after your child receives their first FENSOLVI injection, FENSOLVI can cause an increase in some hormones. During this time, you may notice more signs of puberty in your child including vaginal bleeding. Call your child's healthcare provider if signs of puberty continue after 2 months of receiving FENSOLVI.
- Some people taking gonadotropin releasing hormone (GnRH) agonists like FENSOLVI have had new or worsened mental (psychiatric) problems. Mental (psychiatric) problems may include emotional symptoms such as:
 - crying
 - irritability
 - restlessness (impatience)

acting aggressively

Call your child's healthcare provider right away if your child has any new or worsening emotional symptoms while taking FENSOLVI.

- Some people taking GnRH agonists like FENSOLVI 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 tumors or brain vessel (cerebrovascular) problems
 - are taking a medicine that has been associated 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 healthcare provider right away if your child has a seizure while taking FENSOLVI.

- Increased pressure in the fluid around the brain can happen in children taking GnRH agonists medicines including FENSOLVI. Call your child's doctor right away if your child has any of the following symptoms during treatment with FENSOLVI:
 - headache
- ringing in the ears

dizziness

- eye problems, including blurred vision, double vision and decreased eyesight
 - nausea

What is FENSOLVI?

eye pain

- FENSOLVI is a prescription gonadotropin releasing hormone (GnRH) medicine used for the treatment of
- children with central precocious puberty (CPP). • It is not known if FENSOLVI is safe and effective in children younger than 2 years of age.

FENSOLVI should not be received if your child is: • allergic to GnRH, GnRH agonist medicines, or any ingredients in FENSOLVI. See the end of this Medication

Guide for a complete list of ingredients in FENSOLVI.

Call your child's healthcare provider or get emergency medical help right away if your child gets any of the following symptoms of a serious allergic reaction:

- skin rashes, redness,
- swelling of face, mouth, and tongue
- or swelling trouble breathing
- hives sweating
- or swallowing throat tightness,

severe itching

fast heartbeat

- dizziness or fainting hoarseness
- **pregnant or becomes pregnant.** FENSOLVI can cause birth defects or loss of the baby. If your child becomes pregnant, call your healthcare provider.

FENSOLVI®

(leuprolide acetate) for injectable suspension, 45 mg

INSTRUCTIONS FOR USE

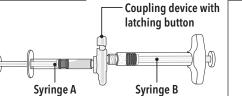
Follow the detailed instructions below to ensure correct preparation of Fensolvi prior to administration:

Step 1

Use aseptic technique including gloves for reconstitution and administration. Allow the product to reach room temperature before reconstitution to allow for easier administration. Administer the product within 30 minutes or discard.

On a clean field open the tray by tearing off the foil from the corner and remove the contents. Discard the desiccant pack. Remove the pre-connected syringe system from the tray. Open the sterile safety needle package by peeling back the paper tab. **Note:** Syringe A and Syringe B should not be lined-up yet. The product should only be administered with the co-packaged, sterile safety needle.

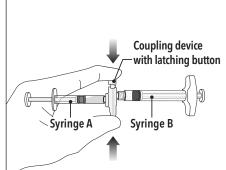




Under the Tray Safety Shield Needle Hub Safety needle and cap

Step 2

Grasp the latching button on the coupling device with your finger and thumb and press until you hear a snapping sound. The two syringes will be aligned. Do not bend the pre-connected



Step 3

syringe system.

Holding the syringes in a horizontal position, transfer the liquid contents of Syringe A into the leuprolide acetate powder contained in Syringe B. Thoroughly mix the product for 60 cycles by pushing the contents back and forth between both syringes to obtain a uniform suspension.

• A cycle is one push of the Syringe A plunger and one push of the Syringe B plunger. When thoroughly mixed, the

suspension will appear colorless to

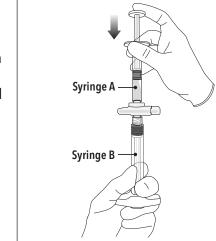
pale yellow. Note: Product must be mixed as described; shaking will NOT provide adequate mixing.

Do not bend.

Step 4

After mixing, hold the syringes vertically

(upright) with Syringe B (wide syringe) on the bottom. The syringes should remain securely coupled. Transfer all of the mixed product into Syringe B by depressing the Syringe A plunger and slightly withdrawing the Syringe B plunger.



CYCLE Push B

Repeat 60x

Step 5

While ensuring the Syringe A plunger is fully pushed down, hold the coupling device and unscrew Syringe B. This will disconnect Syringe B from the coupling device. Syringe A will remain attached to the coupling device.

Note: Small air bubbles will remain in the

Do not purge the air bubbles from

Syringe B as product may be lost!

formulation - this is acceptable.

Step 6

Continue to hold Syringe B upright with the open end at the top. Hold back the white plunger on Syringe B to prevent loss of the product and attach the safety needle and cap. Gently screw clockwise with approximately a three-quarter turn until the safety needle and cap are secure.

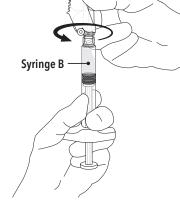
Do not overtighten, as the needle hub

result in leakage of the product during

may become damaged which could

injection. The safety shield may also be damaged if the safety needle and cap are

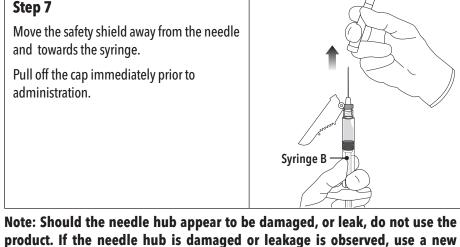
screwed with too much force.



Step 7

Move the safety shield away from the needle and towards the syringe.

Pull off the cap immediately prior to administration.



FENSOLVI carton. SEE REVERSE SIDE FOR ADMINISTRATION INSTRUCTIONS >

Step 3

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701 Centre Avenu Fort Collins, CO 80526 Revision created by: Phyllis Mwaura Revision updated on November 18, 2022 Product: FENSOLVI® Language: English Country: U.S Label: Package Insert **Sheet Size:** 21.25 x 23.5" Part #/Rev/Date: 04006226 Rev. 0 11/22 Filename: 04006226_US_Fensolvi_Insert_r0_1122.indd Data Matrix: 04006226 0 Color information: Black Perforation is only needed on the dotted mark passed trim area Fonts: Avenir Next LT Pro

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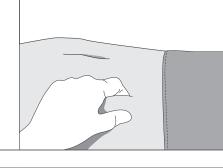
INSTRUCTIONS FOR USE (Continued)

Follow the detailed instructions below to ensure correct administration of FENSOLVI:

1. Select an injection site on the abdomen, upper buttocks, or another location with adequate amounts of subcutaneous tissue that does not have excessive pigment, nodules, lesions, or hair and hasn't recently been used.

2. Cleanse the injection-site area with an alcohol swab (not enclosed).

3. Using the thumb and forefinger, grab and bunch the area of skin around the injection site.

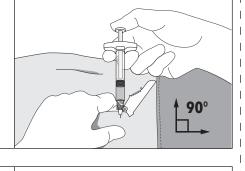


4. Using your dominant hand, insert the needle quickly at a 90° angle to the skin surface. The depth of penetration will depend on the amount and fullness of the subcutaneous tissue and the length of the needle. After the needle is inserted, release the skin.

5. Inject the drug using a slow, steady push and press down on the plunger until the syringe is empty.

Make sure all the drug has been injected before removing the needle.

6. Withdraw the needle quickly at the same 90° angle used for insertion.



7. Immediately following the withdrawal of the needle, activate the safety shield using a finger/thumb or flat surface and push until it completely covers the needle tip and locks into place.

8. An audible and tactile "click" verifies a locked position.

9. Check to confirm the safety shield is fully engaged. Discard all components safely in an appropriate biohazard container.

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Before your child receives FENSOLVI, tell your child's healthcare provider 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 vessel (cerebrovascular) problems.

• have a history of brain or spinal cord (central nervous system) problems or tumors.

• are breastfeeding or plan to breastfeed. It is not known if FENSOLVI passes into breastmilk.

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

How will your child receive FENSOLVI?

• FENSOLVI will be given to your child by a healthcare provider.

• FENSOLVI is injected under the skin (subcutaneous) every 6 months.

• Keep all scheduled visits to the healthcare provider. If you miss a scheduled dose, your child may start having signs of puberty again. The healthcare provider will do regular exams and blood tests to check for signs of puberty.

What are the possible side effects of FENSOLVI?

FENSOLVI may cause serious side effects. See "What is the most important information I should know about **FENSOLVI?"**

The most common side effects of FENSOLVI include:

• injection site pain

constipation

 nasal congestion, sore throat, and runny nose (nasopharyngitis) vomiting upper respiratory tract

 fever (pyrexia) headache

infection sudden shortness of breath or wheezing

cough

nausea

(bronchospasm) productive cough

abdominal pain

sudden strong feelings of

and sweating (hot flush)

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

General information about the safe and effective use of FENSOLVI.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. You can ask your pharmacist or healthcare provider for information about FENSOLVI that is written for health professionals.

What are the ingredients in FENSOLVI?

Active ingredient: leuprolide acetate.

Inactive ingredients: poly (DL-lactide-co-glycolide) and N-methyl-2-pyrrolidone.

Manufactured by:

Tolmar, Fort Collins, CO 80526

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For more information, go to www.fensolvi.com or call 1-888-FENSOLVI (1-888-336-7658).

04006226 Rev. 0 11/22

This Medication Guide has been approved by the U.S. Food and Drug Administration

Issued: 11/2022

6.1 Clinical Trials Experience

Because clinical studies 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.

FENSOLVI was evaluated in an uncontrolled, open-label, single-arm clinical trial in which 64 pediatric patients with CPP received at least one dose of FENSOLVI. The age ranged from 4 to 9 years at start of treatment; 62 patients were female and 2 were male; 53% White; 23% Black; 8% American Indian or Alaska Native; 5% Asian; 2% Native Hawaiian or Other Pacific Islander. 56% of the subjects self-identified as Hispanic or Latino ethnicity. Adverse reactions that occurred in ≥ 5% of patients are shown in Table 1.

Table 1: Adverse Reactions Occurring in ≥ 5% of Patients Treated with FENSOLVI in an **Open-Label, Single-Arm Trial**

Open-Laber, Single-Arm Trial				
Adverse Reactions	% of Patients (N=64)			
Injection site pain	31			
Nasopharyngitis	22			
Pyrexia	17			
Headache	16			
Cough	13			
Abdominal pain	9			
Injection site erythema	9			
Nausea	8			
Constipation	6			
Vomiting	6			
Upper respiratory tract infection	6			
Bronchospasm	6			
Productive cough	6			
Hot flush	5			

Other Adverse Reactions

Emotional disorder (2%) and irritability (2%)

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of leuprolide acetate or FENSOLVI. 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

Allergic Reactions: anaphylactic, rash, urticaria, and photosensitivity reactions.

General: chest pain, weight increase, weight decrease, decreased appetite, fatigue

Laboratory Abnormalities: decreased WBC

Metabolic: diabetes mellitus.

Musculoskeletal and Connective Tissue: arthralgia, epiphysiolysis, muscle spasms, myalgia.

Neurologic: neuropathy peripheral, convulsion, paralysis, insomnia, pseudotumor cerebri (idiopathic intracranial hypertension)

Psychiatric: emotional lability, such as crying, irritability, impatience, anger and aggression, depression, including rare reports of suicidal ideation and attempt. Many, but not all, of these patients had a history of psychiatric illness or other comorbidities with an

Skin and Subcutaneous Tissue: injection site reactions including induration and abscess, flushing, hyperhidrosis

Reproductive System: vaginal bleeding, breast enlargement.

Vascular: hypertension, hypotension

Respiratory: dyspnea. 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy FENSOLVI is contraindicated in pregnancy [see Contraindications (4)].

FENSOLVI may cause fetal harm based on findings from animal studies and the drug's mechanism of action [see Clinical Pharmacology

(12.1)]. The available data from published clinical studies and case reports and from the pharmacovigilance database on exposure to leuprolide acetate during pregnancy are insufficient to assess the risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Based on animal reproduction studies, leuprolide acetate may be associated with an increased risk of pregnancy complications, including early pregnancy loss and fetal harm. In animal reproduction studies, subcutaneous administration of olide acetate to rabbits during the period of organogenesis caused embryo-fetal toxicity, decreased fetal weights and a dose-dependent increase in major fetal abnormalities in animals at doses less than the recommended human dose based on body surface area using an estimated daily dose. A similar rat study also showed increased fetal mortality and decreased fetal weights but no major fetal abnormalities at doses less than the recommended human dose based on body surface area using an estimated daily

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% to 4% and

Animal Data

When administered on day 6 of pregnancy at test dosages of 0.00024 mg/kg, 0.0024 mg/kg, and 0.024 mg/kg (1/3255 to 1/33 of the human dose) to rabbits, leuprolide acetate produced a dose-related increase in major fetal abnormalities. Similar studies in rats failed to demonstrate an increase in fetal malformations. There was increased fetal mortality and decreased fetal weights with the two higher doses of leuprolide acetate in rabbits and with the highest dose (0.024 mg/kg) in rats.

8.2 Lactation

Risk Summary There are no data on the presence of leuprolide acetate in either animal or human milk, the effects on the breastfed infants, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for FENSOLVI and any potential adverse reactions on the breastfed infant from FENSOLVI or from the underlying

Pregnancy Testing

FENSOLVI may cause embryo-fetal harm when administered during pregnancy. FENSOLVI is not a contraceptive. If contraception is indicated, advise females of reproductive potential to use a non-hormonal method of contraception during treatment with FENSOLVI

Exclude pregnancy in women of reproductive potential prior to initiating FENSOLVI if clinically indicated [see Use in Specific Populations

[see Use in Specific Populations (8.1)].

Based on its pharmacodynamic effects of decreasing secretion of gonadal steroids, fertility is expected to be decreased while on treatment with FENSOLVI. Clinical and pharmacologic studies in adults (>18 years) with leuprolide acetate and similar analogs have shown reversibility of fertility suppression when the drug is discontinued after continuous administration for periods of up to

There is no evidence that pregnancy rates are affected following discontinuation of FENSOLVI.

Animal studies (prepubertal and adult rats and monkeys) with leuprolide acetate and other GnRH analogs have shown functional

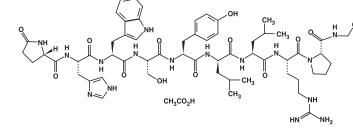
The safety and effectiveness of FENSOLVI for the treatment of CPP has been established in pediatric patients 2 years of age and older. Use of FENSOLVI for this indication is supported by evidence from an adequate and uncontrolled open-label, single-arm study of 64 pediatric patients with CPP with an age range of 4 to 9 years [see Clinical Studies (14)]. The safety and effectiveness of FENSOLVI have not been established in pediatric patients less than 2 years old.

10 OVERDOSAGE

No specific antidotes for FENSOLVI are known. Contact Poison Control (1-800-222-1222) for latest recommendations.

FENSOLVI for injectable suspension is a sterile polymeric matrix formulation of leuprolide acetate, a GnRH agonist, for subcutaneou use. It is designed to deliver leuprolide acetate at a controlled rate over a six-month therapeutic period.

Leuprolide acetate is a synthetic nonapeptide analog of naturally occurring gonadotropin releasing hormone. The analog possesses greater potency than the natural hormone. The chemical name is 5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-D-leucyl-Leucyl-L-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-byrosyl-D-leucyl-L-arginyl-N-ethyl-L-prolinamide acetate (salt) with the following structural formula:



FENSOLVI is supplied as a pre-connected syringe system. Immediately prior to administration, the content of the pre-connected syringe system are mixed until homogenous. FENSOLVI is administered subcutaneously, where it forms a solid drug delivery depot.

Syringe A contains the in situ polymeric extended release technology consisting of a biodegradable poly (DL-lactide-co-glycolide) (PLG) polymer formulation dissolved in a biocompatible solvent, N-methyl-2pyrrolidone (NMP) and syringe B contains the leuprolide acetate.

Refer to Table 2 for the delivery system composition and reconstituted product formulation for FENSOLVI product.

Table 2: FENSOLVI Delivery System Composition and Reconstituted Product Formulation

	Polymer	PLG	
In situ polymeric extended release technology	Polymer description	Copolymer with hexanediol	
rerease techniques	Polymer DL-lactide to glycolide molar ratio	85:15	
Reconstituted Product	Polymer delivered	165 mg	
	NMP delivered	165 mg	
	Leuprolide acetate delivered	45 mg	
	Approximate leuprolide free base equivalent	42 mg	
	Approximate administered formulation weight	375 mg	
	Approximate injection volume	0.375 mL	

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action Leuprolide acetate, a GnRH agonist, acts as a potent inhibitor of gonadotropin secretion (LH and follicle stimulating hormone (FSH)) when given continuously in therapeutic doses. Following an initial stimulation of GnRH receptors, chronic administration of leuprolide acetate results in downregulation of GnRH receptors, reduction in release of LH, FSH and consequent suppression of ovarian and testicular production of estradiol and testosterone respectively. This inhibitory effect is reversible upon discontinuation

12.2 Pharmacodynamics In the clinical trial evaluating FENSOLVI in pediatric patients with CPP, there was a transient surge in circulating levels of LH, FSH, estradiol and testosterone following the first administration. A decrease in basal and GnRH agonist-stimulated LH and FSH levels

along with reductions in basal estradiol and testosterone were observed after repeat administration.

of drug therapy

12.3 Pharmacokinetics After an initial subcutaneous injection of FENSOLVI 45 mg in pediatric patients 4 to 9 years of age with CPP, leuprolide levels peaked $4\ hours\ postdose\ with\ a\ mean\ C_{max}\ of\ 212.3\ ng/mL.\ Absorption\ occurred\ in\ two\ phases,\ a\ burst\ phase\ followed\ by\ a\ plateau\ phase.$

The mean plateau serum leuprolide level from 4 to 48 weeks was approximately 0.37 ng/mL with a range of 0.18 to 0.63 ng/mL.

There was no accumulation of leuprolide after the second dose. The distribution of leuprolide following FENSOLVI administration was not evaluated in pediatric patients. The mean steady-state

In vitro binding of leuprolide to human plasma proteins ranged from 43% to 49%.

Elimination

In rats and dogs, administration of ¹⁴C-labeled leuprolide was shown to be metabolized to smaller inactive peptides: a pentapeptide (Metabolite I), tripeptides (Metabolites II and III), and a dipeptide (Metabolite IV). These fragments may be further catabolized.

In healthy male volunteers, a 1 mg bolus of leuprolide administered intravenously revealed that the mean systemic clearance was 8.34 L/h, with a terminal elimination half-life of approximately 3 hours based on a two-compartment model

Upon administration with different leuprolide acetate formulations, the major metabolite of leuprolide acetate is a pentapeptide

Specific Populations The pharmacokinetics of FENSOLVI in hepatically and renally impaired pediatric patients have not been determined.

volume of distribution of leuprolide following intravenous bolus administration to healthy male volunteers was 27 L.

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Two-year carcinogenicity studies were conducted with leuprolide acetate in rats and mice. In rats, a dose-related increase of benign pituitary hyperplasia and benign pituitary adenomas was noted at 24 months when the drug was administered subcutaneously at high daily doses (0.6 to 4 mg/kg). There was a significant but not dose-related increase of pancreatic islet-cell adenomas in females and of testicular interstitial cell adenomas in males (highest incidence in the low dose group). In mice, no leuprolide acetate-induced tumors or pituitary abnormalities were observed at a dose as high as 60 mg/kg for two years. Patients have been treated with leuprolide acetate for up to three years with doses as high as 10 mg/day and for two years with doses as high as 20 mg/day without demonstrable pituitary abnormalities. No carcinogenicity studies have been conducted with FENSOLVI.

Mutagenicity studies have been performed with leuprolide acetate using bacterial and mammalian systems. These studies provided no evidence of a mutagenic potential.

14 CLINICAL STUDIES

The efficacy of FENSOLVI was evaluated in an uncontrolled, open-label, single arm clinical trial in which 64 pediatric patients (62 females and 2 males, naïve to previous GnRH agonist treatment) with CPP received at least one dose of FENSOLVI at a dosing interval of 24 weeks and were observed for 12 months. The mean age was 7.5 years (range 4 to 9 years) at the start of treatment In pediatric patients with CPP, FENSOLVI reduced stimulated and basal gonadotropins to prepubertal levels. Suppression of peak stimulated LH concentrations to <4 IU/L was achieved in 87% of pediatric patients by month 6 and in 86% of patients by month 12. Suppression of estradiol or testosterone concentration to prepubertal levels at the 6-month assessment was achieved in 97% and 100% of patients, respectively. Suppression of estradiol or testosterone was maintained at the 12-month assessment with 98% (55/56 females) and 50% (1/2 males) maintaining suppression. FENSOLVI arrested or reversed progression of clinical signs of puberty with reductions in growth velocity and bone age. Mean growth velocity decreased from 8.9 ± 13.1 cm/yr at 1 month to 6.9 ± 3.1 cm/yr at 6 months and to 6.4 ± 1.9 cm/yr at 12 months.

Table 3: Reproductive Hormone Levels in Pediatric Patients with CPP Treated with FENSOLVI 45 mg Every 6 Months^a

	% (n/N) of Patients Achieving Endpoints			
Endpoint ^b	Month 3	Month 6	Month 9	Month 12
LH levels < 4 IU/L	85 (51/60)	87 (54/62) ^c	85 (50/59)	86 (50/58)
Estradiol levels < 73.4 pmol/L (< 20 pg/mL)	98 (56/57)	97 (58/60)	98 (56/57)	98 (55/56)
Testosterone levels < 1 nmol/L (< 28.4 ng/dL)	100 (2/2)	100 (2/2)	100 (2/2)	50 (1/2)

62 (37/60) 66 (41/62) 44 (26/59)

FSH levels < 2.5 IU/L Intent-to-treat Population (N=62)

Post GnRH agonist stimulation Primary Efficacy Endpoint

Eight female patients out of 62 did not meet the primary efficacy criteria for LH <4 IU/L at 6 months. In four of the eight patients, the LH level at 6 months was between 4.2 and 4.8 IU/L. The remaining four patients had LH levels >5 IU/L. However, post stimulation estradiol was suppressed to prepubertal levels (<20 pg/mL) in seven of the eight patients at month 6 and was maintained through

16 HOW SUPPLIED/STORAGE AND HANDLING For injectable suspension, 45 mg of leuprolide acetate (NDC 62935-163-60) supplied in a carton that contains:

 Tray containing pre-connected syringe system and desiccant pack Prescribing information • Sterile safety needle and cap (located under the tray in carton)

Store refrigerated at 2°C to 8°C (36°F to 46°F). Once outside the refrigerator, this product may be stored in its original packaging at room temperature 15°C to 30°C (59°F to 86°F) for up to eight weeks prior to reconstitution and administration

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide). Symptoms After Initial FENSOLVI Administration

Inform patients and caregivers that during the early phase of therapy with FENSOLVI, gonadotropins and sex steroids rise above baseline because of the initial stimulatory effect of the drug. Therefore, an increase in clinical signs and symptoms of puberty may be observed. Instruct patients and caregivers to notify the physician if these symptoms continue beyond the second month after

FENSOLVI administration [see Warnings and Precautions (5.1)]. Inform patients and caregivers that psychiatric events have been reported in patients taking GnRH agonists, including leuprolide acetate. Events include emotional lability, such as crying, irritability, impatience, anger, and aggression. Instruct patients and

caregivers to monitor for development or worsening of psychiatric symptoms including depression during treatment with FENSOLVI [see Warnings and Precautions (5.2)]. Inform patients and caregivers that reports of convulsions have been observed in patients receiving GnRH agonists, including leuprolide acetate. 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)].

Pseudotumor Cerebri (Idiopathic Intracranial Hypertension) Inform patients and caregivers that reports of pseudotumor cerebri (idiopathic intracranial hypertension) have been observed in pediatric patients receiving GnRH agonists, including leuprolide acetate. Advise patients and caregivers to monitor for headache, and vision issues such as blurred vision, double vision, loss of vision, pain behind the eye or pain with eye movement, ringing in the ears, dizziness, and nausea. Advise patients and caregivers to contact their healthcare provider if the patient develops any these

symptoms. [see Warnings and Precautions (5.4)].

Injection Site Reactions Inform patients and caregivers that injection site related adverse reactions may occur such as transient burning/stinging, pain, bruising, and redness. Advise patients to contact their healthcare provider if they experience rash or severe injection site reactions

FENSOLVI is contraindicated in pregnancy. If the patient becomes pregnant while taking the drug, the patient should be informed of

the potential risk to the fetus [see Use in Specific Populations (8.1)]. Compliance with the Dosing Schedule Inform caregivers about the importance of adherence to the FENSOLVI dosing schedule of one injection every 24 weeks

[see Dosage and Administration (2.1, 2.2)].

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