

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

 **ORGALUTRAN[®]**

(Ganirelix Injection)

250 mcg /0.5 mL ganirelix (as ganirelix acetate)
Subcutaneous use

Gonadotropin-releasing hormone (GnRH) antagonist

Organon Canada Inc.
16766 route Transcanadienne
Kirkland QC Canada H9H 4M7
www.organon.ca

Date of Initial Authorization:
August 23, 2002

Date of Revision:
January 10, 2024

Submission Control Number: 276208

RECENT MAJOR LABEL CHANGES

CONTRAINDICATION	Jan 2024
WARNINGS AND PRECAUTIONS	Jan 2024

TABLE OF CONTENTS

RECENT MAJOR LABEL CHANGES 2

TABLE OF CONTENTS 2

1 INDICATIONS..... 4

 1.1 Pediatrics.....4

 1.2 Geriatrics.....4

2 CONTRAINDICATIONS 4

4 DOSAGE AND ADMINISTRATION 4

 4.1 Dosing Considerations4

 4.2 Recommended Dose and Dosage Adjustment4

 4.4 Administration.....4

 4.5 Missed Dose5

5 OVERDOSAGE..... 5

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING 5

7 WARNINGS AND PRECAUTIONS 6

 7.1 Special Populations7

 7.1.1 Pregnant Women7

 7.1.2 Breast-feeding7

 7.1.3 Pediatrics.....7

 7.1.4 Geriatrics7

8 ADVERSE REACTIONS 7

 8.1 Adverse Reaction Overview.....7

 8.2 Clinical Trial Adverse Reactions8

 8.2.1 Clinical Trial Adverse Reactions – Pediatrics.....9

 8.3 Less Common Clinical Trial Adverse Reactions9

8.3.1	Less Common Clinical Trial Adverse Reactions – Pediatrics	9
8.4	Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data	9
8.5	Post-Market Adverse Reactions.....	9
9	DRUG INTERACTIONS	9
9.2	Drug Interactions Overview	9
9.3	Drug-Behavioural Interactions.....	9
9.4	Drug-Drug Interactions	9
9.5	Drug-Food Interactions	10
9.6	Drug-Herb Interactions.....	10
9.7	Drug-Laboratory Test Interactions	10
10	CLINICAL PHARMACOLOGY	10
10.1	Mechanism of Action.....	10
10.2	Pharmacodynamics	10
10.3	Pharmacokinetics	12
11	STORAGE, STABILITY AND DISPOSAL	14
12	SPECIAL HANDLING INSTRUCTIONS.....	14
PART II: SCIENTIFIC INFORMATION		15
13	PHARMACEUTICAL INFORMATION.....	15
14	CLINICAL TRIALS	15
14.1	Trial Design and Study Demographics	15
14.2	Study Results	16
14.3	Comparative Bioavailability Studies	18
15	MICROBIOLOGY	18
16	NON-CLINICAL TOXICOLOGY	18
PATIENT MEDICATION INFORMATION.....		20

PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

ORGALUTRAN® (ganirelix injection) is indicated for the prevention of premature LH surges in women undergoing controlled ovarian hyperstimulation (COH).

1.1 Pediatrics

Pediatrics (< 18 years of age):

ORGALUTRAN® (ganirelix injection) is not indicated for pediatric use. Based on the data submitted and reviewed by Health Canada, the safety and efficacy of ORGALUTRAN®, in pediatric patients has not been established.

1.2 Geriatrics

Geriatrics: ORGALUTRAN® (ganirelix injection) is not indicated for geriatric use. No data are available to Health Canada.

2 CONTRAINDICATIONS

ORGALUTRAN® is contraindicated in patients who are:

- Hypersensitive to this drug or to any ingredient in the formulation or to any similar peptides (such as GnRH or other GnRH analog). For a complete listing, see [DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING](#).
- Known or suspected pregnancy.
- Moderate or severe impairment of hepatic or renal function.

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

Prior to therapy with Orgalutran® (ganirelix injection), patients should be informed of the length of treatment and monitoring procedures that will be required. The risk of possible reactions to the drug should be discussed (see [ADVERSE REACTIONS](#)).

4.2 Recommended Dose and Dosage Adjustment

Health Canada has not authorized an indication for pediatric use.

4.4 Administration

After initiating FSH therapy on Day 2 or 3 of the cycle, ORGALUTRAN® 250 mcg should be administered subcutaneously once daily during the early to mid follicular phase to take advantage of endogenous pituitary FSH secretion and therefore to potentially reduce the requirement for exogenously administered FSH. Treatment with ORGALUTRAN® should be continued daily until the day of hCG administration. In normal practice, this period is usually around 5 days, although ORGALUTRAN®

treatment has ranged from 1 to 19 days in clinical trials. When an appropriate number of follicles of adequate size (≥ 17 mm in diameter) are present, as assessed by ultrasound, final maturation of follicles could be induced by administering hCG.

The time between two Orgalutran® injections as well as between the last Orgalutran® injection and the hCG injection should not exceed 30 hours, otherwise a premature ovulation may occur. Therefore, if the patient normally injects Orgalutran® in the morning, the last of the ORGALUTRAN® injections in the series should be given on the same day as the hCG is given. If the patient normally injects ORGALUTRAN® in the afternoon, the last Orgalutran® injection should be given in the afternoon prior to the day the hCG is given.

The administration of hCG should be withheld in cases where the ovaries are abnormally enlarged on the last day of FSH therapy. This will reduce the chance of developing OHSS. Air bubble(s) may be seen in the pre-filled syringe. This is expected, and removal of the air bubble(s) is not needed.

4.5 Missed Dose

If a patient forgot a dose, it should be administered as soon as possible.

A double dose should not be administered to make up for forgotten individual doses.

If the patient is more than 6 hours late (so the time between two injections is longer than 30 hours), the dose should be administered as soon as possible.

5 OVERDOSAGE

There have been no reports of overdose with ORGALUTRAN® in humans.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1: Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Subcutaneous	Solution / ganirelix acetate equivalent to 250 mcg ganirelix / 0.5 mL	glacial acetic acid, mannitol, water for injection (adjusted to pH 5.0 with acetic acid and /or sodium hydroxide).

ORGALUTRAN® is supplied as a clear, colorless, sterile, ready to use, aqueous solution in disposable pre-filled, 1 mL glass syringes containing ganirelix acetate equivalent to 250 mcg ganirelix/0.5 mL, closed with a rubber piston.

Each ORGALUTRAN® pre-filled syringe is affixed with a staked needle 27-gauge x 1/2 inch, closed by a rigid needle shield.

Available as a single syringe.

The syringe piston and needle shield are not made with natural rubber latex.

7 WARNINGS AND PRECAUTIONS

ORGALUTRAN[®] should be prescribed by physicians who are experienced in infertility treatment. Before starting treatment with ORGALUTRAN[®], pregnancy must be excluded. Safe use of ORGALUTRAN[®] during pregnancy has not been established (see [CONTRAINDICATIONS](#)).

General

Hypersensitivity reactions and acute anaphylactic reactions have been reported with GnRH antagonists, including ORGALUTRAN[®]. Anti-ganirelix antibody formation has not been reported with the use of ORGALUTRAN[®]. However, antibody formation has been reported with other GnRH analogs.

Use of ORGALUTRAN[®] in patients with signs and symptoms of active allergic conditions has not been evaluated, therefore, special care should be taken for these patients. Very rare cases of hypersensitivity reactions (both generalized and local), including various symptoms such as rash, facial swelling and dyspnea, have been reported during post-marketing surveillance, as early as with the first dose, among patients administered ORGALUTRAN[®]. These events have included anaphylaxis (including anaphylactic shock), angioedema, and urticaria. (see [ADVERSE REACTIONS_8.5 Post-Market Adverse Reactions](#)). If a hypersensitivity reaction is suspected, ORGALUTRAN[®] should be discontinued and appropriate treatment administered. In the absence of clinical experience, ORGALUTRAN[®] treatment is not advised in women with severe allergic conditions.

Efficacy and safety of ORGALUTRAN[®] have not been established in women weighing > 90 kg or < 50 kg.

Efficacy and safety of ORGALUTRAN[®] have not been studied in women for more than 3 consecutive cycles.

Carcinogenesis and Mutagenesis

See [NON-CLINICAL TOXICOLOGY](#)

Cardiovascular

See [Pharmacodynamics](#)

Monitoring and Laboratory Tests

The only relevant abnormal laboratory value was a neutrophil count ≥ 8.3 ($\times 10^9/L$) in 11.9% of the subjects. In addition, downward shifts within the ORGALUTRAN[®] group were observed for hematocrit and total bilirubin. The clinical significance of these findings was not determined.

Reproductive Health: Female and Male Potential

- **Fertility**

Since infertile women undergoing assisted reproduction, and particularly IVF, often have tubal abnormalities the incidence of ectopic pregnancies might be increased. Early ultrasound confirmation that a pregnancy is intrauterine is therefore important.

Ovarian hyperstimulation syndrome (OHSS) may occur during or following ovarian stimulation. OHSS must be considered an intrinsic risk of gonadotrophin stimulation. OHSS should be treated symptomatically, e.g. with rest, intravenous infusion of electrolyte solutions or colloids and heparin.

7.1 Special Populations

7.1.1 Pregnant Women

ORGALUTRAN® may cause fetal harm when administered to a pregnant woman. No teratogenic effects were observed in rats or rabbits, although, at higher concentrations (≥ 10 mcg/kg/day in rats and ≥ 30 mcg/kg/day in rabbits), an increase in the extent of litter resorption was observed. No treatment related changes in fertility, physical, or behavioral characteristics were observed in the offspring of female rats treated with ORGALUTRAN® during pregnancy and lactation. Use of ORGALUTRAN® in human pregnancy has not been studied. Because animal reproduction studies are not always predictive of human response, this drug should not be used during pregnancy. If this drug is used during pregnancy, the patient should be apprised of the potential hazard to the fetus.

The incidence of congenital malformations after Assisted Reproductive Technologies (ART) may be slightly higher than after spontaneous conceptions. This slightly higher incidence is thought to be related to differences in parental characteristics (e.g., maternal age, sperm characteristics) and to the higher incidence of multiple gestations after ART. There are no indications that the use of GnRH antagonists during ART is associated with an increased risk of congenital malformations. In clinical trials investigating more than 1000 newborns it has been demonstrated that the incidence of congenital malformations in children born after COH treatment using ORGALUTRAN® is comparable with that reported after COH treatment using a GnRH agonist.

7.1.2 Breast-feeding

ORGALUTRAN® should not be used by lactating women. It is not known whether this drug is excreted in human milk.

7.1.3 Pediatrics

Based on the data submitted and reviewed by Health Canada, the safety and efficacy of ORGALUTRAN® in pediatric patients has not been established; therefore, Health Canada has not authorized an indication for pediatric use.

7.1.4 Geriatrics

No data are available to Health Canada, therefore Health Canada has not authorized an indication for geriatric use.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The following clinically significant adverse effects may be associated with Assisted Reproductive Technologies (ART) and/or treatment of ORGALUTRAN (see [7 WARNINGS AND PRECAUTIONS](#) and [14 CLINICAL TRIALS](#))

- Ectopic pregnancy
- Miscarriage
- Ovarian Hyperstimulation syndrome
- Birth defects

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

The safety of ORGALUTRAN® was evaluated in two randomized, parallel-group, multicenter controlled clinical studies. Treatment duration for ORGALUTRAN® ranged from 1 to 14 days. **Table 2: Incidence of AEs (All-subjects-treated group).** represents maternal adverse events (AEs) from first day of ORGALUTRAN® administration until confirmation of pregnancy by ultrasound in ORGALUTRAN® treated subjects without regard to causality.

Table 2: Incidence of AEs (All-subjects-treated group).

WHO system-organ class Preferred term	Group	
	ORGALUTRAN® N = 872	Buserelin N = 236
	All N (%)	All N (%)
Reproductive disorders, female		
Abdominal pain-gynecological	38 (4.4)	8 (3.4)
Ovarian hyperstimulation syndrome	19 (2.2)	14 (5.9)
Vaginal bleeding	14 (1.6)	8 (3.4)
Dysmenorrhea	0	8 (3.4)
Central and peripheral nervous system disorders		
Headache	71 (8.1)	23 (9.7)
Dizziness	19 (2.2)	3 (1.3)
Fetal disorders		
Death fetal	29 (3.3)	13 (5.5)
Abortion missed	7 (0.8)	3 (1.3)
Gastro-intestinal system disorders		
Nausea	22 (2.5)	4 (1.7)
Abdominal pain	16 (1.8)	4 (1.7)
Body as a whole - general disorders		
Fever	4 (0.5)	3 (1.3)
Fatigue	23 (2.6)	2 (0.8)
Pain	10 (1.1)	1 (0.4)
Hot flushes	15 (1.7)	3 (1.3)

WHO system-organ class Preferred term	Group	
	ORGALUTRAN® N = 872	Buserelin N = 236
	All N (%)	All N (%)
Respiratory system disorders		
Upper respiratory tract infection	6 (0.7)	4 (1.7)
Rhinitis	9 (1.0)	1 (0.4)
Application site disorders		
Injection site reaction	37 (4.2)	5 (2.1)
Red blood cell disorder		
Anemia	1 (0.1)	3 (1.3)

n = number of subjects with AEs or drug-related AEs and N = total number of subjects in the group.

8.2.1 Clinical Trial Adverse Reactions – Pediatrics

Not applicable

8.3 Less Common Clinical Trial Adverse Reactions

See [Clinical Trial Adverse Reactions](#)

8.3.1 Less Common Clinical Trial Adverse Reactions – Pediatrics

Not applicable.

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Not applicable.

8.5 Post-Market Adverse Reactions

During post-marketing surveillance, very rare cases of hypersensitivity reactions, including rash, facial swelling and dyspnea, anaphylaxis (including anaphylactic shock), angioedema, and urticaria have been reported, as early as with the first dose, among patients administered ORGALUTRAN®.

Drug Abuse and Dependence

There have been no reports of abuse or dependence of ORGALUTRAN®.

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

See [Drug-Drug Interactions](#).

9.3 Drug-Behavioural Interactions

Interactions of ORGALUTRAN® with lifestyle have not been established.

9.4 Drug-Drug Interactions

Formal in vivo or in vitro drug-drug interaction studies have not been conducted. Since ORGALUTRAN® can suppress the secretion of pituitary gonadotropins, dose adjustments of exogenous gonadotropins may be necessary when used during COH.

9.5 Drug-Food Interactions

Interactions of ORGALUTRAN® with food have not been established.

9.6 Drug-Herb Interactions

Interactions of ORGALUTRAN® with herbs have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions of ORGALUTRAN® with laboratory tests have not been established.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

The pulsatile release of GnRH stimulates the synthesis and secretion of luteinizing hormone (LH) and follicle-stimulating hormone (FSH). The frequency of LH pulses in the mid and late follicular phase is approximately 1 pulse per hour. These pulses can be detected as transient rises in serum LH. At midcycle, a large increase in GnRH release results in an LH surge. The midcycle LH surge initiates several physiologic actions including: resumption of meiosis in the oocyte, ovulation and luteinization. Luteinization results in a rise in serum progesterone with an accompanying decrease in estradiol levels.

ORGALUTRAN® acts by competitively blocking the GnRH receptors on the pituitary gonadotroph and subsequent transduction pathway. It induces a rapid, reversible suppression of gonadotropin secretion. The suppression of pituitary LH secretion by ORGALUTRAN® is more pronounced than that of FSH. An initial release of endogenous gonadotropins has not been detected with ORGALUTRAN®, which is consistent with a rapid antagonistic effect.

ORGALUTRAN® may be displaced during competition for the GnRH receptor by GnRH agonists. This may result in the stimulation of significant LH release and, thus, trigger an LH surge. Upon discontinuation of ORGALUTRAN®, pituitary LH and FSH levels are fully recovered within 48 hours.

10.2 Pharmacodynamics

Ganirelix acetate is a synthetic decapeptide with high antagonistic activity against naturally occurring gonadotropin-releasing hormone (GnRH). Ganirelix acetate is derived from native GnRH with substitutions of amino acids at positions 1, 2, 3, 6, 8, and 10.

The pharmacologic effects of ganirelix acetate were evaluated in reproductive pharmacology studies in females and males and in several general pharmacology studies.

The effects of ganirelix acetate on the female reproductive endocrine system, specifically, ovulation, mating and pregnancy were evaluated in rats and dogs.

Single doses of Org 37462 (research code for ganirelix acetate), ranging from 0.125 to 2.0 mcg/rat (10

or 12 rats/group), were administered by SC injection to rats at noon of pro-oestrus. This resulted in a dose-related inhibition of ovulation with an ED50 of 0.29 mcg/rat which is approximately 1.4 mcg/kg. The corresponding ED50 value for another GnRH antagonist, detirelix, was 2.1 mcg/kg. The estrus cycle returned to normal rapidly following cessation of treatment.

A single SC dose of 3 mcg/kg Org 37462 to female rats during pro-estrus inhibited ovulation completely. Org 37462 also prevented ovulation when it was given at noon on the day before pro-oestrus as a suspension in corn oil (ED50 40 mcg/kg). This anti-ovulatory effect of Org 37462 is thought to be mediated by inhibiting the pre-ovulatory surge of gonadotropins.

The effects on mating and fertility were assessed after once daily SC injections at a dose of 2.5 mcg/kg of Org 37462 in female rats. Mating of female rats to adult sexually-experienced males after at least two weeks of Org 37462 treatment (2.5 mcg/kg) resulted in a significant increase in the incidence of vaginal oestrus. There were no significant differences in mating and fertility parameters between vehicle- and Org 37462-treated females, except for a significantly lower mean number of ova and a significantly lower mean number of live pups delivered. Extending the dose to 10 mcg/kg did not alter the percentage of rats mating during treatment or 7 weeks after cessation of treatment. The fertility of mated rats, however, was significantly reduced as shown by a decreased pregnancy rate. A significantly greater proportion of the Org 37462-treated rats mated on the first day of cohabitation; the reduction of fertility was attributed to an altered relationship between receptivity and ovulation. The effects on fertility were reversible.

Administration of Org 37462 resulted in reduced testosterone secretion in male rats, dogs and monkeys. There was a good relationship between plasma concentrations of Org 37462 and suppression of plasma testosterone levels. Org 37462 induces reversible suppression of the release of endogenous gonadotropins without initial stimulation inherent to GnRH agonists.

The effects of ganirelix acetate were investigated on histamine release and histamine-mediated effects, such as cardiovascular symptoms. Other general pharmacological properties of ganirelix were evaluated in vivo in mice, rats, dogs and monkeys. These studies included investigation of the effects of ganirelix on the central nervous, respiratory, cardiovascular, renal and digestive systems.

Org 37462 (dose range, 0.1-1000 mcg/kg SC) administered to mice, induced a small dose-related (range, 1.0-100 mcg/kg SC) increase in normal separation behaviour, miosis and a slight increase in body temperature. Org 37462 (range, 1-1000 mcg/kg SC) did not disrupt neurological or skeletal muscle co-ordination and function and did not significantly alter the onset or duration of the loss of the righting reflex induced by hexobarbital in mice. At a SC dose of 100 mcg/kg, however, the duration of action of hexobarbital was increased slightly. Org 37462 did not protect mice against a maximal electroshock induced tonic hind-limb extensor seizure, nor did it significantly affect pentylenetetrazol-induced tonic flexor and extensor seizures.

The capacity of Org 37462 to release histamine in vitro as compared to the second generation GnRH antagonist (detirelix) was assessed by means of a mixed rat peritoneal cell assay. The concentrations of antagonist that released 50% of the releasable histamine pool EC50 (mean \pm SEM) for Org 37462 and detirelix were 17.8 ± 5.0 and 0.21 ± 0.03 mcg/mL, respectively. Thus, Org 37462 was found to be significantly less active than detirelix in this in vitro assay for histamine release.

The potential hypotensive activities of Org 37462 (range, 300-3000 mcg/kg IV) and detirelix (range, 30-300 mcg/kg IV) were studied in pentobarbital-anaesthetised rats (4 rats/group). The mean dose required to reduce mean blood pressure by 50 mmHg (ED50 dose and 95% confidence limits) was 901 mcg/kg (740-1140) for Org 37462 and 41 mcg/kg (22-54) for detirelix. No generalised hypersensitivity reactions in animals after SC administration have been observed. Thus, Org 37462 has less histamine releasing potential and therefore less hypotensive activity when compared to second generation GnRH antagonists.

In rats, Org 37462 (1-1000 mcg/kg SC or 0.1-100 mcg/kg IV) did not affect blood pressure or heart rate, nor did it elicit any diuretic, natriuretic or kaliuretic activity.

Org 37462 at SC doses of 1.0 and 10-100 mcg/kg (10 rats/group) increased the secretion of gastric acid and total milli-equivalents of hydrogen ions (mEq H⁺) by about 50% in pylorus-ligated male rats, but the increases were not dose dependent.

Org 37462 did not induce any significant effect on respiratory rate, respiratory flow rate, tidal volume, minute volume, venous or arterial blood pO₂, pCO₂ and pH in 4 pentobarbital-anesthetized dogs, each receiving the entire dose range of 1-1000 mcg/kg SC.

SC administration of Org 37462 (range, 1-1000 mcg/kg) to 4 cynomolgus monkeys/group had no significant effect on arterial blood pressure, heart rate or behaviour.

Administration of ganirelix acetate up to 1 mg/kg SC to animals evoked no effects on the central nervous, respiratory, cardiovascular and renal systems.

10.3 Pharmacokinetics

After IV dose a $t_{1/2}$ was observed of 1.35 h in rats and 5 h in monkeys. This half-life is longer than one would expect of a peptide drug and inherent to the structure of ganirelix acetate. The half-life of GnRH is only a few minutes. Because of the presence of five D-amino acids ganirelix acetate is highly resistant to enzymatic degradation; it is not degraded in vitro by trypsin or chymotrypsin or by incubation with plasma. After SC administration the pharmacokinetic parameters were strongly influenced by the dosage because higher dosages resulted in depot formation at the SC injection site. The SC dose was rapidly released into the systemic circulation but as a result of depot formation t_{max} values increased with higher dosages. Absorption was probably the rate-limiting step for the systemic elimination of Ganirelix acetate. The bioavailability of ganirelix acetate after oral or nasal administration was low: < 1% relative to IV and 6% relative to SC administration, respectively.

Following a single IV dose, during the first few hours ganirelix acetate was predominantly found in tissues involved in metabolism and/or elimination. Almost all of the other organs/tissues sampled contained less than 1% of the dose at all time points.

Three metabolites, which were truncated peptides of the parent decapeptide were identified in the rat bile. Plasma and urine contained mostly undegraded ganirelix.

Whereas rat plasma did not contain metabolites, monkey plasma contained the 1-7 heptapeptide.

Excretion was mainly biliary; 13-26% and 58-84% of dosed radioactivity was recovered in urine and faeces, respectively.

The pharmacokinetic parameters of single and multiple injections of ORGALUTRAN[®] (ganirelix injection) in healthy adult females are summarized in **Table 3: Mean (SD) pharmacokinetic parameters of 250 mcg of Orgalutran[®] following a single subcutaneous (SC) injection (n=15) and daily SC injections (n=15) for seven days.** Steady state serum concentrations were reached after 2 to 3 days of treatment. The pharmacokinetics are dose-proportional in the dose range of 125 - 500 mcg.

Table 3: Mean (SD) pharmacokinetic parameters of 250 mcg of Orgalutran[®] following a single subcutaneous (SC) injection (n=15) and daily SC injections (n=15) for seven days.

	C _{max}	T _{max}	t _½ (h)	AUC _{0-∞}	CL (L/hr)	Vd L
Orgalutran Single dose	14.8(3.2)	1.1(0.3)	12.8(4.3)	96(12)	2.4 (0.2) [†]	43.7(11.4) [†]
Orgalutran multiple dose	11.2(2.4)	1.1(0.2)	16.2 (1.6)	77.1(9.8)	3.3 (0.4) [*]	76.5(10.3)

t_{max} Time to maximum concentration
t_{1/2} Elimination half-life
C_{max} Maximum serum concentration
AUC Area under the curve; Single dose: AUC_{0-∞}; multiple dose AUC₀₋₂₄
Vd Volume of distribution
[†] Based on intravenous administration
CL Clearance = Dose/AUC_{0-∞}
^{*} Apparent Clearance

Absorption

The geometric mean absolute bioavailability of ORGALUTRAN[®] following a single 250 mcg subcutaneous injection to healthy female volunteers is 91.1%. Maximum serum concentrations [C_{max} (SD)] following 250 mcg of ganirelix acetate were 14.8 (3.2) and 11.2 (2.4) ng/mL for single and multiple doses, respectively. T_{max} is approximately one hour after subcutaneous injection.

Distribution:

The mean (SD) volume of distribution of ORGALUTRAN[®] in healthy females following intravenous administration of a single 250 mcg dose is 43.7(11.4) liters (L). The apparent volume of distribution (SD) following a SC injection of 250 mcg daily for seven days is 76.5(10.3) L. *In vitro* protein binding to human plasma was 81.9%.

Metabolism:

Following intravenous administration of radiolabeled ORGALUTRAN[®] to healthy female volunteers, ORGALUTRAN[®] was the major compound present in the plasma (50-70% of administered dose) and urine (17.0-18.4% of administered dose) up to 4 hours after a single dose. There was no ORGALUTRAN[®] found in the feces. The 1-4 peptide metabolite of ORGALUTRAN[®] was the primary compound observed in the feces.

Elimination

The elimination half-life [$t_{1/2}$ (SD)] following a single 250 mcg SC dose of ORGALUTRAN® to healthy female subjects was 12.8(4.3) hours. The $t_{1/2}$ (SD) following daily 250 mcg SC doses of ORGALUTRAN® for seven days was 16.2(1.6) hours. The apparent clearance (SD) following daily 250 mcg SC doses of ORGALUTRAN® for seven days was 3.3(0.4) L/hour. Approximately 90% of radiolabeled ORGALUTRAN® was excreted in the urine and feces within 192 hours following a single intravenous dose. On average, 97.2% of the total ORGALUTRAN® dose administered was recovered in the feces and urine (75.1% and 22.1%, respectively).

11 STORAGE, STABILITY AND DISPOSAL

Store between 15 - 30°C. Protect from light. SINGLE USE ONLY.

12 SPECIAL HANDLING INSTRUCTIONS

Inspect the solution before use. It must only be used if it is clear and without particulate matter.

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

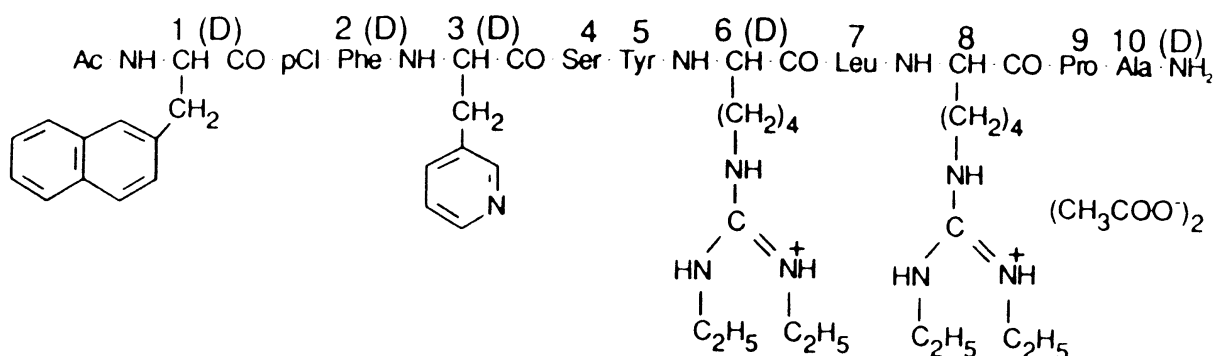
Drug Substance

Proper/Common name: Ganirelix acetate

Chemical name: D-Alaninamide, N-acetyl-3-(2-naphthalenyl)-D-alanyl-4-chloro-D-phenylalanyl-3-(3-pyridinyl)-D-alanyl-L-seryl-L-tyrosyl-N6-[(ethylamino)(ethylimino)methyl]-D-lysyl-L-leucyl-N6-[(ethylamino)(ethylimino)methyl]-L-lysyl-L-prolyl-, diacetate (salt)

Molecular formula and molecular mass: C₈₀H₁₁₃N₁₈O₁₃Cl, anhydrous free base
 C₈₀H₁₁₃N₁₈O₁₃Cl • xCH₃CO₂H • yH₂O,
 hydrated salt, where 2 ≤ x ≤ 3 and y ≤ 10
 and 1570.4 (anhydrous free base)

Structural formula:



Physicochemical properties: Ganirelix acetate is a white to off-white amorphous powder. The specific rotation [α]_D²⁰ of a 1.0% (w/v) solution of ganirelix in 1% acetic acid is between -44° and -52° (based on water and acetic acid free substance).

14 CLINICAL TRIALS

14.1 Trial Design and Study Demographics

The efficacy of ORGALUTRAN[®] was established in three adequate and well-controlled clinical studies. For all studies, the administration of exogenous recombinant FSH [Follistim[™] (follitropin beta for injection)] 150 IU daily was initiated on the morning of Day 2 or 3 of a natural menstrual cycle. ORGALUTRAN[®] was administered on the morning of Day 7 or 8 (Day 6 of recombinant FSH administration). The dose of recombinant FSH administered was adjusted according to individual responses starting on the day of initiation of ORGALUTRAN[®]. Both recombinant FSH and ORGALUTRAN[®] were continued daily until appropriate follicular growth was achieved for administration of hCG [Pregnyl[®] (chorionic gonadotropin for injection)].

Following hCG administration, ORGALUTRAN® and recombinant FSH administration were discontinued. Oocyte retrieval, followed by in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI), was subsequently performed. ORGALUTRAN® has shown to be safe and effective in women undergoing multiple treatment cycles (up to a maximum of 3 cycles).

In a multicenter, double-blind, randomized, dose-finding study, the safety and efficacy of ORGALUTRAN® were evaluated for the prevention of LH surges in women undergoing COH with recombinant FSH. ORGALUTRAN® doses ranging from 62.5 mcg to 2,000 mcg and recombinant FSH were administered to 332 patients undergoing COH for IVF (see

- **Table 4: Results from the multicenter, double-blind, randomized, dose-finding study to assess the efficacy of ORGALUTRAN® to prevent premature LH surges in women undergoing COH with recombinant FSH.** Median serum LH on the day of hCG administration decreased with increasing doses of ORGALUTRAN®. Median serum E2 (17β-estradiol) on the day of hCG administration was 1475, 1110, and 1160 pg/mL for the 62.5, 125, and 250 mcg doses, respectively. Lower peak serum E2 levels of 823, 703, and 441 pg/mL were seen at higher doses of ORGALUTRAN® 500, 1,000, and 2,000 mcg, respectively. The highest pregnancy and implantation rates were achieved with the 250 mcg dose of ORGALUTRAN® as summarized in

Table 4: Results from the multicenter, double-blind, randomized, dose-finding study to assess the efficacy of ORGALUTRAN® to prevent premature LH surges in women undergoing COH with recombinant FSH. .

14.2 Study Results

Table 4: Results from the multicenter, double-blind, randomized, dose-finding study to assess the efficacy of ORGALUTRAN® to prevent premature LH surges in women undergoing COH with recombinant FSH.

	Daily dose (mg) of ORGALUTRAN®					
	62.5 mcg	125 mcg	250 mcg	500 mcg	1,000 mcg	2,000 mcg
No. subjects receiving ORGALUTRAN	31	66	70	69	66	30
No. subjects with ET [†]	27	61	62	54	61	27
LH rise ≥ 10 mIU/mL*	5	6	1	0	0	0
Serum LH (mIU/mL) on day of hCG [‡]	3.6	2.5	1.7	1.0	0.6	0.3
5 th -95 th percentiles	0.6-19.9	0.6-11.4	<0.25-6.4	0.4-4.7	<0.25-2.2	<0.25-0.8
Serum E ₂ (pg/mL) on day of hCG [‡]	1475	1110	1160	823	703	441
5 th -95 th percentiles	645-3720	424-3780	384-3910	279-2720	284-2360	166-1940
No. of follicles ≥11 mm ^{i§}	10.7(5.1)	10.7(4.8)	11.8(4.6)	10.1(4.7)	10.8(4.7)	10.2(5.2)
No. of oocytes ⁱ	8.7(5.8)	9.6(5.4)	9.8(5.5)	8.8(6.6)	9.4(6.2)	9.1(5.3)
No. of embryos ⁱ	5.2(3.6)	5.8(4.3)	5.2(4.5)	4.6(4.2)	5.5(4.4)	5.6(4.6)

No. of embryos transferred ⁱ	2.7(0.9)	2.6(1.0)	2.4(0.9)	2.3(0.6)	2.4(0.8)	2.6(1.0)
Vital pregnancy rate ^W						
per attempt, n (%)	7(22.6)	17(25.8)	25(35.7)	8(11.6)	9(13.6)	2(6.7)
per transfer, n (%)	7(25.9)	17(27.9)	25(40.3)	8(14.8)	9(14.8)	2(7.4)
Implantation rate (%) ⁱ	14.2(26.8)	16.3(30.5)	21.9(30.6)	9.0(23.7)	8.5(21.7)	4.9(20.1)

Following initiation of ORGALUTRAN[®] therapy. Includes subjects who have complied with daily injections.

‡ Median values

§ Restricted to subjects with hCG injection

i Mean (standard deviation)

† ET: Embryo Transfer

W As evidenced by ultrasound at 5-6 weeks following ET.

Increases in LH \geq 10 IU/L were detected in twelve subjects (62.5 mcg n=5; 125 mcg n=6; 250 mcg n=1). Transient LH rises alone were not deleterious to achieving pregnancy with ORGALUTRAN[®] at doses of 125 mcg (3/6 subjects) and 250 mcg (1/1 subjects). In addition, none of the subjects with LH rises \geq 10 IU/L had an associated elevation of serum progesterone above 2 ng/mL which indicates that an LH surge or premature luteinization had not occurred.

Increases in LH \geq 10 IU/L prior to administration of ORGALUTRAN[®] on Day 6 of gonadotropin use were observed in high responders (high E₂ levels) as well as in subjects with diminished ovarian reserve (high LH and FSH levels with low E₂ levels).

Two multicenter, open-label, randomized trials were conducted to assess the efficacy and safety of ORGALUTRAN[®] in women undergoing COH. Follicular phase treatment with ORGALUTRAN[®] 250 mcg was studied using the luteal phase GnRH agonists, buserelin and leuprolide, as reference treatment in trial 38607 and 103-001, respectively. In both trials, a total of 463 and 198 subjects were treated with ORGALUTRAN[®] by subcutaneous injection once daily starting on day 6 of recombinant FSH treatment. Recombinant FSH was maintained at 150 IU for the first 5 days of ovarian stimulation and was then adjusted by the investigator on the sixth day of gonadotropin use according to individual responses. The results are summarized in **Table 5: Results from the multicenter, open-label, randomized studies to assess the efficacy and safety of ORGALUTRAN[®] in women undergoing COH.**

Table 5: Results from the multicenter, open-label, randomized studies to assess the efficacy and safety of ORGALUTRAN[®] in women undergoing COH.

	Protocol 38607	Protocol 103-001
No. subjects treated	463	198
Duration of GnRH analog (days) ^{§‡}	5.4(2.0)	4.7(2.1)
Duration of recombinant FSH (days) ^{§‡}	9.6(2.0)	9.0(2.1)
Serum LH (mIU/mL) on day of hCG [‡]	1.6	1.7
5 th -95 th percentiles	0.6-6.9	0.4-7.6
Serum E ₂ (pg/mL) on day of hCG [‡]	1190	2001
5 th -95 th percentiles	373-3105	950-4394
No. of follicles >11mm ^{‡§}	10.7(5.3)	12.3(5.8)
No. of oocytes [‡]	8.7(5.6)	11.67(6.7)
Fertilization rate (%)	62.1	62.4

No. subjects with ET [†]	399	178
No. of embryos transferred [‡]	2.2(0.6)	2.9(0.5)
No. of embryos [‡]	6.0(4.5)	6.9(4.1)
Ongoing pregnancy rate ^{W§}		
per attempt, n (%) ^l	94(20.3)	61(30.8)
per transfer, n (%)	93(23.3)	61(34.3)
Implantation rate (%) [‡]	15.7(29)	21.1(30.4)

‡ Median values

§ Restricted to subjects with hCG injection

‡ Mean (standard deviation)

† ET: Embryo Transfer

W As evidenced by ultrasound at 12-16 weeks following ET

L Includes one patient who achieved pregnancy with intrauterine induction.

Some centers were limited to the transfer of ≤ 2 embryos based on local practice standards

The mean number of days of GnRH analog treatment for subjects in the ORGALUTRAN[®] group was 5.4 and 4.7 days, and 2-3 weeks longer in the GnRH agonist groups in trial 38607 and 103-001, respectively. The ongoing pregnancy rate was 20.3% and 30.8% in trial 38607 and 103-001, respectively, as confirmed by ultrasound scan 12-16 weeks post embryo transfer.

Increases in LH

In trial 38607, ORGALUTRAN[®] treatment, 13 subjects (2.8%) had an LH value ≥ 10 IU/L. Seven of these subjects cancelled prior to embryo transfer. The other 6 subjects had ET but did not get pregnant. For all 13 subjects ORGALUTRAN[®] levels were measured to check for possible compliance problems but results indicated adequate compliance.

In the buserelin group, 3 (1.3%) subjects had an LH rise during agonist treatment one of which resulted in a cancellation. The other 2 subjects had ET and one of them got pregnant.

In trial 103-001, during ORGALUTRAN[®] treatment, 7 subjects (3.5%) had an LH value ≥ 10 IU/L. All 7 had ET, 2 had an ongoing pregnancy and 1 had a miscarriage. In the leuporelin group 1 subject (1.0%) had an LH rise during agonist treatment. This subject had ET which resulted in an ongoing pregnancy.

Some undesirable effects reported in the above trials are related to the controlled ovarian hyperstimulation treatment for ART, e.g. abdominal pain, OHSS, ectopic pregnancy and miscarriage. The overall rate of OHSS was 3.5% in the ORGALUTRAN[®] and 4.8% in the comparator groups.

14.3 Comparative Bioavailability Studies

Not applicable.

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

Acute Toxicity

Dose-ranging acute toxicity studies were conducted in the rat and the cynomolgus monkey using IV and

SC routes of administration. After IV administration of ganirelix acetate the approximate maximum tolerated dose was 1.0 mg/kg in rats and 3.0 mg/kg in monkeys. After SC injection of doses up to 40 mg/kg ganirelix acetate was well tolerated; no mortalities or clinical signs of systemic toxicity in the acute toxicity studies in rats and cynomolgus monkeys were observed. Local reactions at the SC injection site and pathologic changes occurred at doses \geq 1 mg/kg/day with dose-related severity.

Subchronic and Chronic Toxicity

In the subchronic and chronic toxicity studies no clinical signs of systemic toxicity were present in mice, rats and monkeys at any of the dose levels tested, viz. up to 10 mg/kg SC in the 2-week toxicity studies, up to 5 mg/kg SC in the 13-week toxicity studies and up to 2.5 mg/kg SC in the 6-month chronic toxicity studies. Pharmacological effects on the reproductive organs were already observed after SC administration of 0.1 mg/kg/day (the lowest dose tested in most subchronic and chronic toxicity studies).

Reproduction and Teratogenicity

Reproductive toxicity studies in female rats showed that administration of a SC dose of 2.5 mcg/kg/day resulted in a slight decrease in fertility. SC administration of doses \geq 100 mcg/kg/day to female or male rats for 13 weeks resulted in infertility of all treated animals. After 20 weeks of recovery, mating performance and fertility of both sexes were comparable with the vehicle-treated group, indicating reversibility of the effects on reproduction.

Exposure of a fetus to ganirelix acetate during organogenesis had no teratogenic effects. At dosages of \geq 10 mcg/kg in rats and \geq 30 mcg/kg in rabbits an increase in the extent of litter resorption was observed.

Carcinogenicity

Long-term toxicity studies in animals have not been performed with ganirelix to evaluate the carcinogenic potential of the drug. Ganirelix acetate did not induce a mutagenic response in the Ames test (*S. typhimurium* and *E. coli*) or produce chromosomal aberrations in in vitro assay using Chinese Hamster Ovary cells or mice bone marrow cells.

Mutagenicity

Ganirelix lacks genotoxic properties as demonstrated in a battery of in vitro and in vivo tests for the detection of mutagenic and clastogenic effects.

Special Toxicity

Local histamine release may cause a local reaction at the site of injection. Two sensitisation studies were performed with intradermal injections of ganirelix acetate. Overall, the response to the challenge dose of Org 37462 was comparable to the responses observed in the pre-induction and comparative-control tests. After SC administration signs of irritation were present at the injection site in ganirelix acetate-treated groups with dose-related severity and consisted of swelling and discoloration of the skin. Signs of injection-site irritation occurred occasionally in placebo-treated groups. The local tolerance outcome indicated that daily SC administered ganirelix acetate was well tolerated.

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

ORGALUTRAN®

Ganirelix Injection

Read this carefully before you start taking **ORGALUTRAN®** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **ORGALUTRAN®**.

What is **ORGALUTRAN®** used for?

- **ORGALUTRAN®** is used to prevent premature luteinising hormone (LH) surges in women undergoing controlled ovarian hyperstimulation (COH). This allows the release of an egg to be controlled so that it occurs at an optimal time for pregnancy to occur.

How does **ORGALUTRAN®** work?

The active ingredient in **ORGALUTRAN®** is ganirelix acetate, which blocks a hormone in your body called gonadotrophin-releasing hormone (GnRH) antagonist. GnRH is a hormone that controls other hormones called gonadotrophins. These include luteinising hormone (LH) and follicle stimulating hormone (FSH). In women, FSH is needed for growth and development of follicles in the ovaries. Follicles are small round sacs that contain the egg cells. LH is needed to release the mature egg cells from the follicles and ovaries (i.e. ovulation). **ORGALUTRAN®** blocks the action of GnRH to stop the release of gonadotrophins, especially LH.

What are the ingredients in **ORGALUTRAN®**?

Medicinal ingredients: ganirelix acetate

Non-medicinal ingredients: glacial acetic acid, mannitol, water for injection (adjusted to pH 5.0 with acetic acid and /or sodium hydroxide).

ORGALUTRAN® comes in the following dosage forms:

As a sterile solution containing 250 mcg / 0.5 mL ganirelix (as ganirelix acetate).

Do not use **ORGALUTRAN®** if you:

- are allergic to ganirelix acetate or any other ingredients in **ORGALUTRAN®**
- are hypersensitive to any products containing GnRH or GnRH analog such as leuprolide acetate and goserelin acetate
- have moderate or severe kidney disease
- have moderate or severe liver disease
- are pregnant or think you might be pregnant
- are breast feeding

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take **ORGALUTRAN®. Talk about any health conditions or problems you may have, including if you:**

- weigh less than 50 kg (110 lbs) or more than 90 kg (198 lbs)

Other warnings you should know about:

Ectopic pregnancy:

An ectopic pregnancy is where the fetus develops outside the uterus. You are more likely to have an ectopic pregnancy with assisted reproduction. Your doctor will perform an ultrasound scan early during pregnancy to confirm that your pregnancy is not ectopic.

Birth defects:

The risk of birth defects may be slightly higher following infertility treatment.

Allergy:

Tell your doctor if you have an allergy. Your doctor will decide if you need to be more closely monitored during treatment. If you have a severe allergic condition, such as angioedema or anaphylaxis, ORGALUTRAN® might not be right for you. Tell your doctor if you have a severe allergic condition. Allergic reactions have been reported with ORGALUTRAN® treatment. Stop taking ORGALUTRAN® and get immediate medical help if you have any of the following symptoms:

- difficulty breathing or swallowing
- hives
- swelling of the face, lips, tongue or throat
- rash

Ovarian hyperstimulation syndrome (OHSS).

During or following hormonal stimulation of the ovaries, ovarian hyperstimulation syndrome may develop. This is when a very large number of follicles begin to grow. Your doctor will monitor you for this condition, but you should talk to your doctor if you are having:

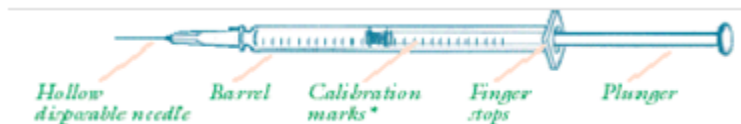
- abdominal swelling
- abdominal discomfort or pain
- nausea
- diarrhea
- difficulty in breathing.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

How to take ORGALUTRAN®:

- ORGALUTRAN® will be prescribed by a doctor with experience in infertility treatment.
- Always use ORGALUTRAN® exactly as your doctor has told you.
- Check with your doctor if you are not sure how to use ORGALUTRAN®.
- Efficacy and safety of ORGALUTRAN® have not been studied in women for more than 3 cycles in a row.
- You should inject ORGALUTRAN® under your skin, once a day, as directed by your doctor.
- It should be injected at about the same time as products containing FSH. But, you should not mix the products together and they should be injected at different sites on your body.
- Your doctor will tell you for how long you should inject ORGALUTRAN®.
- Discuss with your doctor about risk of possible reactions to ORGALUTRAN®.
- They will monitor your treatment by using ultrasound.
- Follow the “Instructions for use”, below, when injecting ORGALUTRAN®.

Figure 1



Instructions for use

- Injection site:

ORGALUTRAN® is supplied in a pre-filled syringe. It should be injected slowly, just under the skin, preferably in the upper leg. Inspect the ORGALUTRAN® before use. Do not use if the liquid inside the syringe contains particles or is not clear. You may notice air bubbles in the pre-filled syringe. This is normal and you do not need to remove the air bubbles. Follow the instructions below carefully. You can inject ORGALUTRAN® yourself or have it injected by someone else. Do not mix ORGALUTRAN® with any other medicines.

- Preparing the injection site:

Wash your hands well with soap and water.

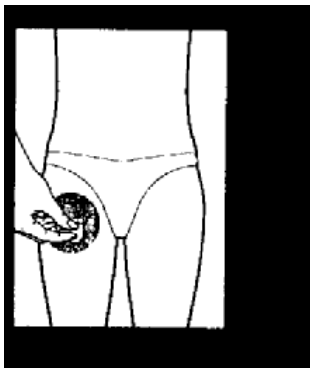
Figure 2



Swab the injection site with a cotton swab moistened with disinfectant (for example, rubbing alcohol).

This removes bacteria from your skin. The most convenient site for subcutaneous injection is in the upper thigh. Clean about a 5 cm (two inches) area where the needle will go in. Let the disinfectant dry for at least one minute before proceeding.

Figure 3



- Inserting the needle:
Hold the syringe with needle facing down. Remove needle cover. Pinch up a large area of skin between the finger and thumb.

Figure 4



Insert the needle at the base of the pinched-up skin at an angle of 45° - 90° to the skin surface. Change the injection site with each daily injection.

- Checking the correct needle position:
Gently draw back the plunger to check if the needle is positioned correctly. Any blood drawn into the syringe means the needle tip has penetrated a blood vessel. If this happens, do not inject ORGALUTRAN®. Remove the syringe, cover the injection site with a swab containing disinfectant and apply pressure. The bleeding should stop in a minute or two. Do not use this syringe and dispose of it properly. Start again with a new syringe.
- Injecting ORGALUTRAN®:
Depress the plunger slowly and steadily. This is done so that ORGALUTRAN® is injected correctly and the skin tissues are not damaged.

- **Removing the syringe:**

Pull the syringe out quickly. Apply pressure to the site with a swab containing disinfectant (see diagram below). Use each syringe only once. Dispose of used syringe properly.

Figure 5



Usual dose:

250 mcg ORGALUTRAN® once a day (the contents of one 0.5 mL pre-filled syringe).

Overdose:

If you inject more ORGALUTRAN® than you should, contact your doctor.

If you think you have taken too much ORGALUTRAN® contact your healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you realize that you forgot a dose, administer it as soon as possible.

Do not inject a double dose to make up for a missed dose.

If you are more than 6 hours late (so the time between two injections is longer than 30 hours) administer the dose as soon as possible, and contact your doctor for further advice.

If you have any further questions on the use of this product, ask your doctor or pharmacist.

What are possible side effects from using ORGALUTRAN®?

These are not all the possible side effects you may have when taking ORGALUTRAN®. If you experience any side effects not listed here, tell your healthcare professional.

Side effects may include:

- Redness, swelling of skin at the injection site.
- Headache.
- Nausea.
- Dizziness.
- Tiredness and malaise (general feeling of being unwell).
- Abdominal pain.
- Hot flushes.
- Pain.
- Vaginal bleeding.

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
VERY RARE			
Allergic reaction: difficulty breathing or swallowing, hives, swelling of the face, lips, tongue or throat, rash.			√
UNKNOWN			
Ectopic pregnancy (fetus develops outside the uterus): vaginal bleeding or spotting, cramping or pain in abdomen, lightheadedness or fainting, shoulder pain			√
Miscarriage (loss of pregnancy): cramping or pain in abdomen, vaginal bleeding, fluid or tissue passing from your vagina.			√
Ovarian Hyperstimulation Syndrome (OHSS): abdominal swelling, abdominal discomfort or pain, nausea, diarrhea, difficulty in breathing.			√

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Keep out of reach and sight of children.

Store at room temperature between 15°C and 30°C.

Store in the original package in order to protect from light.

Do not use after the expiry date stated on the carton and on the label.

Inspect the syringe before use. Use only syringes with clear, particle-free solutions and from undamaged containers.

Each syringe is for single use only.

If you want more information about ORGALUTRAN®:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: <https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>; the manufacturer's website www.organon.ca, or by calling 1-844-820-5468.

This leaflet was prepared by Organon Canada Inc.

Last Revised: January 10, 2024

® N.V Organon. Used under license

©2023 Organon Canada Inc. All rights reserved