

# DESCRIPTION

Cetrolix<sup>™</sup> is a preparation of Cetrorelix Acetate. Cetrorelix Acetate is a synthetic decapeptide with gonadotropin-releasing hormone (GnRH) antagonistic activity. Cetrorelix Acetate blocks the effects of GnRH. GnRH controls the secretion of luteinizing hormone (LH), which induces ovulation during the menstrual cycle. During hormone treatment for ovarian stimulation, premature ovulation may lead to eggs that are not suitable for fertilization. Cetrorelix Acetate blocks such undesirable premature ovulation. GnRH induces the production and release of luteinizing hormone (LH) and follicle stimulating hormone (FSH) from the gonadotropic cells of the anterior pituitary. Due to a positive estradiol ( $E_2$ ) feedback at midcycle, GnRH liberation is enhanced resulting in an LH-surge. This LH-surge induces the ovulation of the dominant follicle, resumption of occyte meiosis and

subsequently luteinization as indicated by rising progesterone levels. Cetrorelix Acetate competes with natural GnRH for binding to membrane receptors on pituitary cells and thus controls the release of LH and FSH in a dose-dependent manner. The onset of LH suppression is approximately two hours with the 0.25 mg dose. This suppression is maintained by continuous treatment and there is a more pronounced effect on LH than on FSH. An initial release of endogenous gonadotropins has not been detected with Cetrorelix injection, which is consistent with an antagonist effect. The effects of Cetrorelix Acetate on LH and FSH are reversible after discontinuation of treatment. In women, Cetrorelix Acetate delays the LH-surge,

and consequently ovulation, in a dose-dependent fashion. FSH levels are not affected at the doses used during controlled ovarian stimulation. A dose of Cetrorelix Acetate 0.25 mg every 24 hours has been shown to maintain the effect.

## INDICATIONS

Cetrorelix Acetate is indicated for the treatment of infertility in females. It restricts eggs to release directly and prevents premature ovulation. In Female infertility, Cetrorelix Acetate prevents release of premature eggs during a process called ovulation in females. This helps in normal development of an egg in a woman's ovary (female reproductive organ), and stimulates the release of a healthy, matured egg. This helps to treat infertility in women and increases the chance of a successful pregnancy.

## DOSAGE AND ADMINISTRATION

Cetrolix<sup>TM</sup> administered subcutaneously once daily (0.25 mg dose) at 24 hour intervals, either in the morning or in the evening as part of the multiple dose protocol during the early- to mid-follicular phase (Day 5/6 to Day11).

It is for subcutaneous injection into the lower abdominal wall. The first administration of Cetrolix<sup>TM</sup> 0.25 mg should be performed under the pervision of a physician.

The reconstituted product is to be administered subcutaneously. Use immediately after reconstitution.

#### CONTRAINDICATIONS

Hypersensitivity to cetrorelix acetate, extrinsic peptide hormones or mannitol.

- · Pregnancy and lactation · Postmenopausal womer
- · Patients with moderate and severe renal and hepatic impairment

## ADVERSE REACTIONS

The most commonly reported adverse effects are local injection site reactions such as erythema, swelling and pruritus that are usually transient in nature and mild in intensity

Mild to moderate ovarian hyperstimulation syndrome (OHSS) (WHO grade I or II) have been commonly reported and should be considered as an intrinsic risk of the stimulation procedure.

### PRECAUTIONS AND WARNINGS

- Allergic conditions: Cases of allergic/pseudoallergic reactions, including life-threatening anaphylaxis with the first dose have been reported. Special care should be taken in women with signs and symptoms of active allergic conditions or known history of allergic predisposition. Treatment with Cetrorelix Acetate is not advised in women with severe allergic conditions.
- Ovarian Hyperstimulation Syndrome (OHSS): During or following ovarian stimulation, an ovarian hyperstimulation syndrome can occur. This event must be considered as an intrinsic risk of the stimulation procedure with gonadotropins. An OHSS should be treated symptomatically, e.g. with rest, intravenous electrolytes/colloids and heparin therapy. Luteal phase support should be given according to the reproductive medical centre's practice. Repeated ovarian stimulation procedure: There is limited experience up to now with the administration of Cetrorelix Acetate during a repeated
- ovarian stimulation procedure. Therefore, Cetrorelix Acetate should be used in repeated cycles only after a careful benefit/risk evaluation. Congenital anomalies: The prevalence of congenital anomalies after the use of assisted reproductive technologies (ART) with or without GnRH
- antagonists may be slightly higher than after spontaneous conceptions, although it is unclear whether this is related to factors inherent to the couple's infertility or the ART procedures. Limited data from clinical follow-up studies in 316 newborns of women administered Cetrorelix Acetate for infertility treatments suggest that Cetrorelix Acetate does not increase the risk of congenital anomalies in the offsprings. Hepatic impairment: Cetrorelix Acetate has not been studied in patients with hepatic impairment and caution is therefore warranted
- Renal impairment: Cetrorelix Acetate has not been studied in patients with renal impairment and caution is therefore warranted. Cetrorelix Acetate is contraindicated in patients with severe renal impairment.

# USE IN PREGNANCY AND LACTATION

Cetrorelix Acetate is not intended to be used during pregnancy and lactation.

# DBUG INTERACTION

No formal drug-drug interaction studies have been performed with Cetrorelix Acetate. In vitro investigations have shown that interactions are unlikely with medicinal products that are metabolized by cytochrome P450 or glucuronised or conjugated in some other way. However, the possibility of interactions with gonadotropins or medicinal products that may induce histamine release in susceptible individuals, cannot be totally excluded.

#### SPECIAL PRECAUTION:

- This medicinal product must be allowed to reach room temperature prior to injection. It should be removed from the refrigerator approximately 30
  minutes before use.
- Do not use if the reconstituted solution contains particles or if the solution is not clear.
- The solution should be used immediately after reconstitution.

### PHARMACEUTICAL PRECAUTION

1. Wash your hands well with soap and water.

To be used immediately after reconstitution. Store in a refrigerator (2°C to 8°C temperature). Do not freeze. Keep away from light & wet place. Keep out of reach of children

### PREPARATION



On a clean surface, lay out everything you need: one vial of Cetrolix<sup>TM</sup>, one ampoule of WFI, one disposable syringe with light brown (26G) injection needle, one green (21G) injection needle and two alcohol pads.



3. Flip off the plastic cover of the Cetrolix<sup>™</sup> vial. Clean the aluminum ring and rubber stopper with an alcohol wipe. Discard the alcohol pad.



4. Take the disposable syringe, remove the wrapping and remove the attached light brown (26G) syringe needle and put the needle on a clean surface.



5. Take the green (21G) injection needle, remove the wrapping and put this green needle on the syringe.



Manufactured by RUPGANJ, NARAYANGANJ, BANGLADESH TM TRADÉMARK R/PM2018 V01