

# Gonarelin® vet Injection

Gonadorelin Acetate BP

**Composition:** Each ml contains Gonadorelin Acetate BP eq. to Gonadorelin 0.1 mg.

**Description:** Gonadorelin is the gonadotropin releasing hormone (GnRH) which is produced by the hypothalamus and causes the release of the gonadotropin luteinizing hormone (LH) and follicle-stimulating hormone (FSH) from the anterior pituitary.

**Mode of action:** The active compound of Gonarelin Injection is gonadorelin, a deca-peptide identical to the natural Gonadotropin Releasing Hormone (GnRH). Therefore Gonarelin has exactly the same action as endogenous GnRH. It controls the production and secretion of Luteinizing Hormone (LH) and Follicle Stimulating Hormone (FSH) by the pituitary gland. Gonarelin Injection causes simultaneous release of LH and FSH has a direct effect on the ovary. FSH stimulates follicle development and LH induces ovulation and luteinization.

## Indications:

### **Cystic ovarian disease:**

Both follicular and luteal cysts will respond to treatment with Gonarelin Injection. The cysts ovulate or luteinize further to develop into a corpus luteum. In 18 – 23 days most animals return to oestrus and can be inseminated. The conception rate at this first insemination is normal.

### **Improvement of fertility/ Repeat breeding:**

Although clinically normal, a number of animals require 3 or more inseminations for conception. This problem is called repeat breeding. To improve the conception rate Gonarelin Injection can be administered at the time of insemination or at mid cycle (11 – 14 days post oestrus)

### **Improvement of fertility in post partum:**

Gonarelin Injection administered in the early post – partum period (15 – 40 days post – partum) stimulates the resumption of physiological oestrous cycles, reduces the incidence of cystic ovarian disease and shortens the interval of calving to first oestrus.

## Dosage & administration:

### **For cystic ovarian disease**

5 ml as a single intramuscular injection (IM injection)

### **For Improvement of fertility/Improvement of conception rate/Repeat breeding**

2.5 – 5 ml as a single intramuscular injection (IM injection)

### **For improvement of fertility in post partum**

1 – 2.5 ml as a single intramuscular injection (IM injection)

**Effectiveness:** For the treatment of ovarian follicular cysts in lactating dairy cows, beef cows and replacement dairy and beef heifers.

The treatment effect of Gonarelin Injection when used in cattle with ovarian follicular cysts is a reduction in the number of days to first estrus.

There were no significant differences in days from treatment to conception, frequency of cows conceiving at first or subsequent heats, or conception rates among treated or non-treated control animals, when Gonarelin Injection was used alone for treatment of cystic ovaries.

**Safety and Toxicity:** In cows the intramuscular administration of up to 12.5 times maximum recommended dosage (2,500 mcg/day) of Gonarelin Injection for 3 days did not affect any physiological or clinical parameter. Likewise, single intramuscular doses of 500 mcg did not interfere with pregnancy. No evidence of irritation at injection site was found in any animal.

**Withdrawal period:** No withdrawal period or milk discard time is required when used according to labeling.

**Storage:** Protect from light, store in a cool (15°C to 25°C temperature) & dry place and keep out of reach of children.

**Presentation:** 5 ml, 10 ml, 25ml, 30ml & 50ml Vial