MECHANISM OF ACTION
Follicular cysts are enlarged non-ovulatory follicles resulting from a malfunction of the neuroendocrine mechanism controlling follicular maturation and ovulation. Exogenous administration of agents possessing luteinizing hormone (LH)-like activity, such as follicle-stimulating hormone (FSH), may therefore be used to treat follicular cysts. FACTREL injection induces release of endogenous luteinizing hormone (LH) to produce this effect.

Gonadorelin, through release of LH has been demonstrated to induce ovulation of dominant ovarian follicles present on the bovine ovary during the estrous cycle. Administration of FACTREL injection has the same effect.

WARNINGS AND PRECAUTIONS
For use in animals only. Not for human use. Keep out of reach of children.

ADVERSE REACTIONS
No withdrawal period or risk discussions are required when used according to labeling.

EFFECTIVENESS
For the treatment of ovarian follicular cysts in lactating dairy cows, beef cows, and replacement dairy and beef heifers: A study was conducted to compare the effectiveness of two doses of 2, 3 or 4 mL FACTREL injection when used in lactating dairy cows, beef cows, and replacement dairy and beef heifers in a reduction in the number of days to first estrus.

There were no significant differences in days to estrus in treatments, conception frequency of cows conceived at first or subsequent treatments, or conception extra among treated or non-treated control animals, when FACTREL injection was used in lactating dairy cows, beef cows, and replacement dairy and beef heifers.

For use with LUTALYSE® (dinoprost tromethamine injection) injection to synchronize estrous cycles to allow fixed-time artificial insemination (FTAI) in lactating dairy cows.

REFERENCES

DESCRIPTION
FACTREL injection is a sterile solution containing 50 micrograms of synthetic gonadorelin (re-hydrochloride) per mL in aqueous formulation containing 0.6% sodium chloride and 2% benzyl alcohol (as a preservative).

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

FACTREL injection has the identical amino acid sequence as endogenous gonadorelin. It is a 40 amino acid chain with a molecular weight of 4500 Da and a pK of 6.2 expressed as C55H75N17O13.

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