OVARELIN®

for a truly extended family

REPEAT BREEDING SYNDROME
**INFERTILITY: A KEY ISSUE IN MODERN DAIRIES**

*Only 50% of inseminated dairy cows achieve their objective: giving birth to a viable calf!*

Reproductive failures can be split as follows:

- **Fertilisation Failure**: 40%
- **Early embryonic mortality**: 30%
- **Late embryonic mortality**: 20%
- **Abortion**: 8%
- **Premature calving**: 2%

**Economic impact: certain but variable**

- ↑ insemination costs (↑ AI index)
- ↑ Calving to calving interval
- ↑ veterinary costs
- ↑ replacement cost
- Extra labour time

**From 2 to 5 € / cow / extra day on calving to calving interval**

(SEEGERS – 2006 – WBC)

70% of failures occur in the first 20 days

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**1. Bad timing of insemination**

a. **Delayed or missed ovulation**

b. Lack of heat detection

2. Poor quality of oocyte or semen

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1. **No synchronicity per ovulation**

   - Progesterone deficiency

2. Poor uterine environment

3. Poor embryo quality

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**RISK FACTORS**

**Individual:**
- Metritis
- High milk yield
- Voluntary Waiting Period

**Herd:**
- Environment
- Diet (Energy, Nitrogen…)

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DETERIORATED OR MISSED OVULATIONS

⇒ Exogenous GnRH reduces variability in ovulation timing & increases synchronicty between oocyte and semen.

**Action of OVARELIN is effective on D0:**
- If administered at the beginning of oestrus
- In situations where stress can induce a luteal deficiency (poor heat, 1st lactation, high production...)
- From the 1st AI (Farms with low fertility) to 3rd AI (improvement of 20 %)

PROGESTERONE DEFICIENCY
⇒ Exogenous GnRH Stimulates the current corpus luteum, decreasing early embryonic mortality by CL luteolysis before maternal recognition of pregnancy

Action of OVARELIN at D12 is most effective
- In farms with low fertility (<40%)
- In situations where stress can induce a luteal deficiency (poor heat, 1st lactation, high production...)

Benefits of OVARELIN when injected at the time of AI and 12 days later
Trial including 1289 dairy cows under heat stress (summer condition in Spain) & showing an improvement of pregnancy rate
OVARELIN is effective in the treatment of Repeat Breeding Syndrome
[DEFLANDRE A. – CEVA Santé Animale – 2004]

Injection should be done at least 4 hours after heat detection and before AI
OVARELIN increases pregnancy rate of 37% in repeat breeders

GnRH or analog?
The comparison between this 2 classes of molecule has been done on the height of the LH peak induced, but ovulation occurs beyond a threshold whatever the released quantity.

This trial compares OVARELIN (n = 103) and Buserelin (n = 122) on fertility parameters at the time of 3rd AI on repeat breeding dairy cows
[F. DELETANG & al. – World Buiatric Congress NICE 2006]
The total results shows an increase of 23% of fertility rate for OVARELIN vs Buserelin
PROTOCOLS

Delayed ovulation in Repeat Breeding Syndrome

Synchronisation program = CEC

- Efficacy in the treatment of repeat breeding syndrome
- 23% increase in fertility rate compared to Buserelin
- 2 ml dose for cattle

MENTIONS LEGALES
OVARELIN
+ ENZAPROST T