



The leader in equine assisted reproduction presents:

Ovum Pick Up-ICSI

THE MODERN CHOICE TO GENERATE OFFSPRING FROM VALUABLE MARES AND STALLIONS



Ovum Pick Up allows to produce embryos in vitro from oocytes recovered by ultrasound guided procedures and fertilised using ICSI (Intracytoplasmic Sperm Injection).

It is a safe and reliable technology suitable for all mares and stallions including:

- ✓ Young mares competing in sporting activities
- ✓ Old mares and infertile mares with ovarian and uterine diseases
- ✓ Infertile stallions
- ✓ Valuable stallions with limited semen available

Ovum Pick Up can be repeated several times on the same donor mare.

It can be performed all year around, even in the non reproductive season.

Embryos produced by Ovum Pick Up and ICSI can be frozen successfully and transferred at any time afterwards when recipient mares are available.

Avantea is the leader fertility clinic in Europe for equine assisted reproduction



Avantea

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FAQs - Ovum Pick Up-ICSI

When choosing the technique Ovum Pick Up-ICSI?

- ✓ When it is required to obtain embryos from mares with uterine pathologies that do not allow embryonic development after fertilization, natural or artificial.
- ✓ When the donor mares are in training or sporting activities and cannot carry a pregnancy.
- ✓ When it is desirable to obtain embryos outside the breeding season.
- ✓ When the semen of the selected stallion is of poor quality or it is available in limited quantities.
- ✓ When the donors are aged mares.
- ✓ When the desired stallion is infertile or semen is available in small quantity.

Which are the suitable donor mares for Ovum Pick Up-ICSI?

- ✓ All non-pregnant mares are eligible regardless of age, although for donors over 20 years of age there is a decrease in efficiency.

Which stallions can be used for the fertilization of the oocytes (Intracytoplasmic sperm injection - ICSI)?

- ✓ All stallions, including those with low or no fertility in natural mating, can be used as long as live spermatozoa are present in the semen, even if in small quantities. Both fresh refrigerated or frozen semen are suitable for this technique. The average amount of semen required is a quarter of straw.

At what time of the year is it possible to perform Ovum Pick Up-ICSI?

- ✓ Throughout the year, even outside the breeding season because the oocytes are always present on the ovary also during the seasonal anoestrus. The embryos produced can be safely frozen and for this reason Ovum Pick Up-ICSI is also recommended during the non-reproductive season.

Is it necessary to have recipient mares for the transfer of fresh embryos?

- ✓ No, it is not necessary because the embryos produced by Ovum Pick Up-ICSI can be safely frozen and transferred at a later time.

Which are the pharmacological treatments on the donor mare required for the technique Ovum Pick Up-ICSI?

- ✓ No hormonal stimulation is required. The donor is sedated at the time of oocyte collection when can be also performed an epidural anesthesia. After collection it is suggested a short anti-inflammatory and antibiotic treatment as a precaution.



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