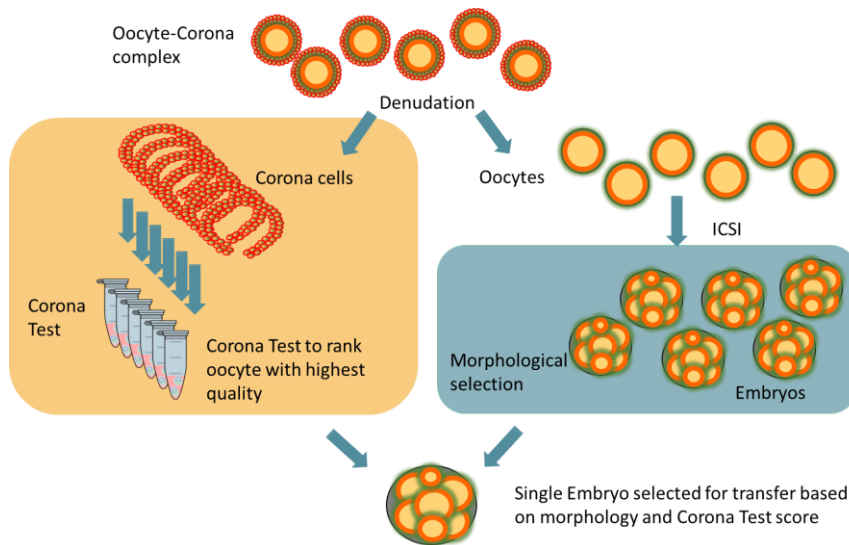


The Corona Test

Oocyte competence prediction

The Corona Test measures the potential of an oocyte to develop into a normal healthy child after ICSI. After testing the corona cells of each oocyte from a woman after hormone stimulation, the embryo from the oocyte with the highest potential will be transferred into the uterus.

Applying this technology in IVF practice has shown that pregnancy rates have doubled (from 27% to 63%) and live birth increased from 25% to 55% after transfer of a single embryo on day 3.



Corona Test principle

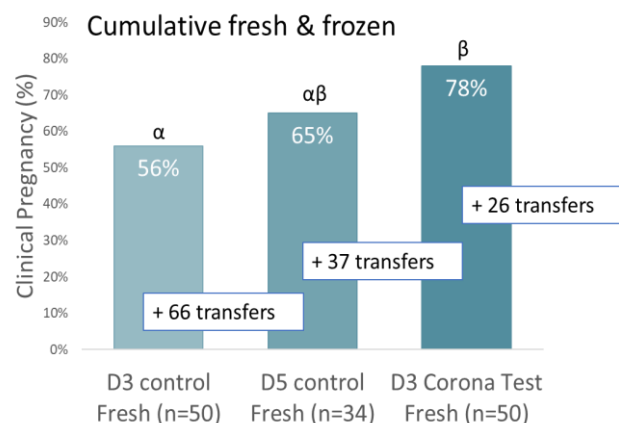
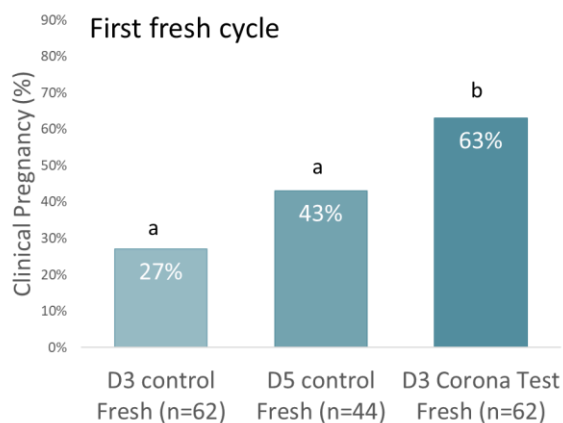
The Corona Test is performed on corona cells from all oocytes from a patient. The test is based on the measurement of five specific gene expressions.

Corona cells are isolated from all oocytes and RNA is then extracted from the corona cells for each of the harvested oocytes. cDNA synthesis and real-time PCR is done using 3 predictive genes and two control genes. PCR results lead to a quantitative ranking for all oocytes.

Figure 1. Corona Test principle

Pregnancy rate doubled from 27% to 63% in a prospective clinical trial in Europe

- Three arm study: Corona test arm with day-3 SET, two control arms with day-3 & day-5 controls without Corona Test
- 62 patients: majority Caucasians and some Arab patients
- Age 22-38 years of age, good ovarian response, no severe male infertility
- Stimulated by HP-hMG (Menopur) and single-embryo transfer (SET) policy



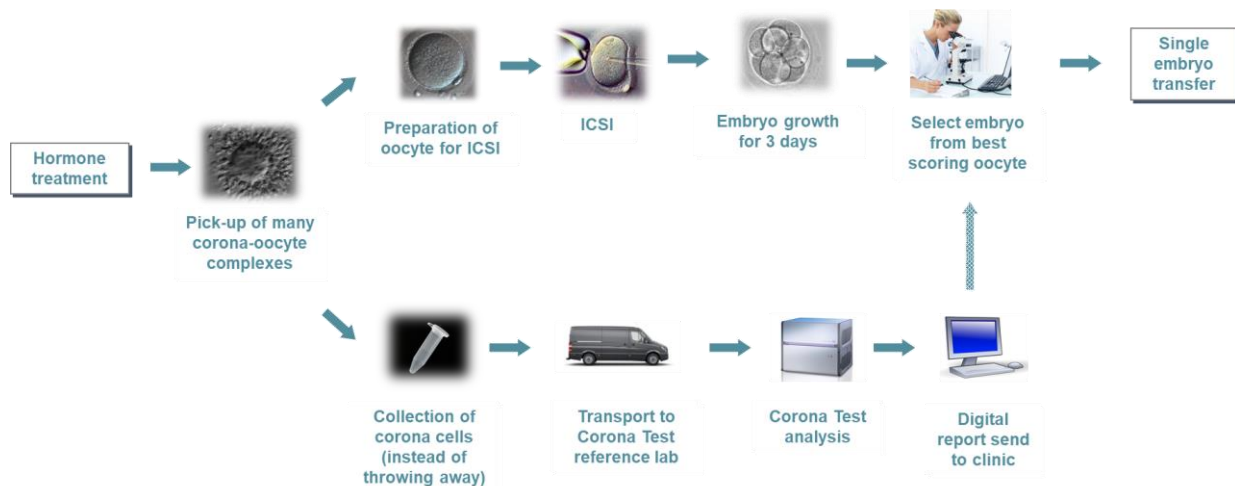
Inclusion criteria

The application of Corona Test is validated for patients with the following criteria:

- Stimulation with HP-hMG hormones (e.g. Menopur) followed by ICSI
- Patient age between 22 to 38 years, good ovarian reserve, excluding severe male infertility
- Single embryo transfers (fresh or frozen) to avoid twin birth

Test service offered

- DAY 0: Corona-oocyte complex pick-up. Corona cells must be removed for each oocyte by embryologist and individually collected into bar-coded tubes.
- Day 1: Samples will be transported to a clinical testing lab nearby which runs the Corona Test
- DAY 2-3: Corona Test (RNA isolation, QPCR and analysis) is done in the clinical testing lab.
- DAY 3: Clinical testing lab will communicate Clinical Report to IVF clinic. Report gives a ranking of all oocytes and specifies which corona-oocyte complex has the best score.
- Embryologist uses this score besides his morphological evaluation to select the best embryo for transfer.
- In case there is no pregnancy from a first transfer, the supernumerary embryos which were vitrified will also be transferred following the score.



In the future, the Corona Test application will be broadened to other gonadotrophins.

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