## **EXSYS Case Study**

## **In Vitro Fertilization Cycle Stimulation**

University of Vienna, Austria

Nothing says "mission critical" like the precise timing for cycle stimulation needed in infertility diagnosis and treatment. Below are the results from a knowledge automation that was presented at the World Congress of In Vitro Fertilization and Embryo Transfer.



The following factors were built into the system

- Cycle day
- Urinary luterinizing hormone (LH)
- Yesterday's and today's serum-estradiol (E2)
- Yesterday's and today's progesterone (P)
- ♦ Increase of E2 and P
- The number and size of sonographically measured follicles.

The system displayed the correct choice in over 90% of cases after extensive testing. It is the opinion of many doctors that this knowledge automation system presents a valuable tool to simplify routine procedures in IVF programs. It is also used as a teaching instrument for residents. This system dramatically speeds up decision-making processes for treatment.

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