

[Fertil Steril](#). 2003 Mar;79(3):621-3.

**First live birth after ovarian stimulation using a chimeric long-acting human recombinant follicle-stimulating hormone (FSH) agonist (recFSH-CTP) for in vitro fertilization.**

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**OBJECTIVE:** To report the first pregnancy and live birth after ovarian stimulation using a chimeric long-acting human recombinant FSH agonist (recFSH-CTP) for IVF. **DESIGN:** Case report. **SETTING:** Tertiary fertility center. **PATIENT(S):** A 32-year-old woman with a 7-year history of primary infertility. **INTERVENTION(S):** Ovarian stimulation with a single SC injection of 180 microg recFSH-CTP on cycle day 3, followed by daily injections of 150 IU recFSH from cycle day 10 onward, combined with daily GnRH antagonist 0.25 mg SC to prevent a premature LH rise. Final oocyte maturation was induced by 10,000 IU hCG. **MAIN OUTCOME MEASURE(S):** First ongoing pregnancy obtained with recFSH-CTP. **RESULT(S):** Twelve oocytes were retrieved. Ten oocytes were fertilized in vitro by intracytoplasmic sperm injection, and from these 10 oocytes, two embryos were subsequently transferred after 3 days of culture. A pregnancy test 2 weeks after ET was positive, and ultrasound investigation revealed an intact, intrauterine, singleton pregnancy after 12 weeks. **CONCLUSION(S):** The first pregnancy and live birth was achieved after ovarian stimulation using recFSH-CTP for IVF.