

## Successful pregnancy after ICSI with artificial oocyte activation by calcium ionophore in in-vitro matured oocytes for a women of advanced age: a case report- Mingrong lv- Reproductive Medicine Center

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The achievement of a successful pregnancy after oocyte activation with calcium ionophore is reported in a couple having low fertilization rates after intracytoplasmic sperm injection (ICSI) of in-vitro matured oocytes. A couple, in which the wife is 41years old, who had polycystic ovary syndrome and the husband is 48, who had moderate oligoteratozoospermia, showed a low implantation rate in previous 5 cycles. In the latest cycle, 2 immature oocytes were retrieved. 24h later, artificial oocyte activation by calcium ionophore was combined with ICSI to achieve viable fertilized

oocytes. Oocytes were stimulated with calcium ionophore for 15 min after ICSI. On the fifth day, two blastocysts were formed and frozen. Two months later, two blastocysts derived from the activated oocytes were transferred into the uterus after thawed. Subsequently, one gestational sac was identified on ultrasound. This result suggests that calcium ionophore could be useful for aged patients with low fertility after ICSI of in-vitro matured oocytes.