

Ovarian Stimulation and Oocyte Cryopreservation for Fertility Preservation in Adolescent Females at the Royal Children's Hospital: A Case Series

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Abstract : BACKGROUND- Fertility preservation (FP) measures are increasingly recognised as an important consideration for children and adolescents planned to undergo potentially damaging gonadotoxic therapy. Worldwide, there are very few documented cases of FP in young females by way of ovarian stimulation and oocyte cryopreservation. AIM - To report a case series of mature oocyte cryopreservation in 5 post-pubertal adolescents aged 14-17 years old, with varied medical conditions requiring gonadotoxic treatment. SETTING- These cases took place via a multidisciplinary team approach at The Royal Children's Hospital, a large tertiary centre in Melbourne, Australia. INTERVENTION- Ovarian stimulation and oocyte collection was performed as detailed in each case. RESULTS - Across the 5 patients, 3-28 oocytes were retrieved. We report pre-treatment workup, complications, and delays to treatment. CONCLUSION- Oocyte cryopreservation may be a safe alternative to ovarian tissue cryopreservation (OTC) in the adolescent population

Keywords : fertility preservation, adolescent, ovarian stimulation, oocyte cryopreservation

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