

FEMALE FERTILITY PRESERVATION: MORE THAN TEN YEARS OF EXPERIENCE IN A FRENCH CENTER.

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Abstract Body

Introduction : Female fertility preservation (FP) has developed considerably in recent years. The aim of this study is to evaluate and analyze the results of more than 10 years of activity at the Lille University Hospital.

Material and methods: This is a retrospective study including 675 female patients who underwent FP and 893 patients followed in the fertility observatory at the Lille University Hospital from its creation until December 31, 2020. All data were collected prospectively and reported in the database of the Observatory of fertility in cancer patients of The Lille University Hospital as part of the labelled project "elle va guérir puis voudra un enfant".

Results: Among the 893 eligible patients, 711 fertility preservation procedures were performed in 582 adult women (including 207 adolescents and young adults (AYA)) with 522 oocytes vitrifications (73.5%), 25 frozen embryos (3.5%). and 164 ovarian tissue cryopreservations (OTC) (23%). 93 prepubertal patients underwent OTC. The main indications for oocyte vitrification, were benign or border-line ovarian tumors (30%, n=189), breast cancer (21%, n=132) and oncohaematology (16.4%, n=103). So far, reutilization rate is 4% (n=15), resulting in 5 pregnancies and 3 live births (including one twin). 89% of the indications for OTC were oncological, notably hematological malignancies (39%, n=100) and solid tumors (33%, n=84). 4 patients benefited from an ovarian tissue transplantation, resulting in 1 spontaneous live birth.

Conclusion : Thanks to a dedicated and efficient organization, and due to an increasingly demonstrating effectiveness of OV and OTC the activity of fertility preservation centre at the Lille University Hospital has significantly increased in recent years. Reutilization rate is still low but is bound to increase.