Female fertility preservation in Norway

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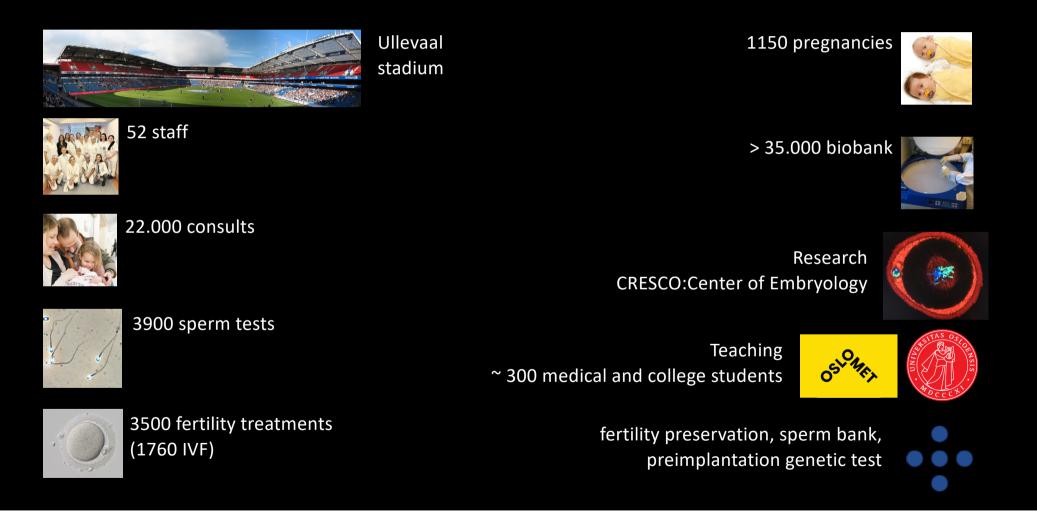


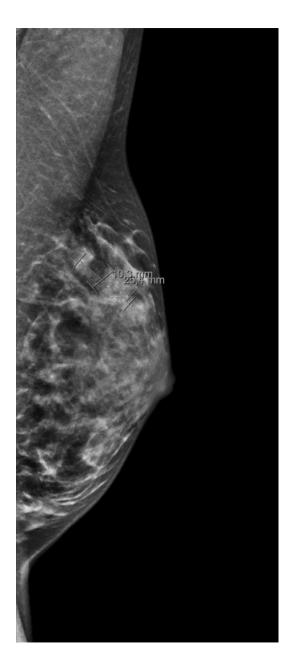


Department of Reproductive Medicine

2024

Oslo universitetssykehus





28 years

winter 2025concern about breast nodule.....Mar 17X-ray, biopsy, DCIS grade 3 ER+, PR+, HER3-Apr 7referral to reproductive medicineApr 9appointment at reproductive medicine

Apr 23primary surgery...oocyte cryopreservationMay 28start adjuvant chemotherapy

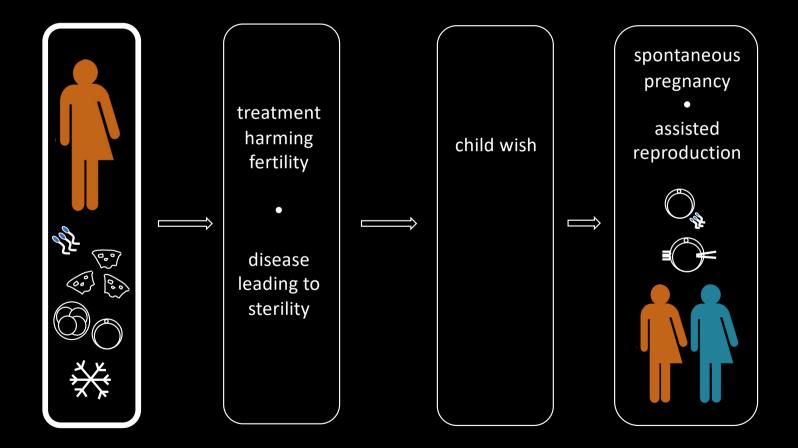
april

mai

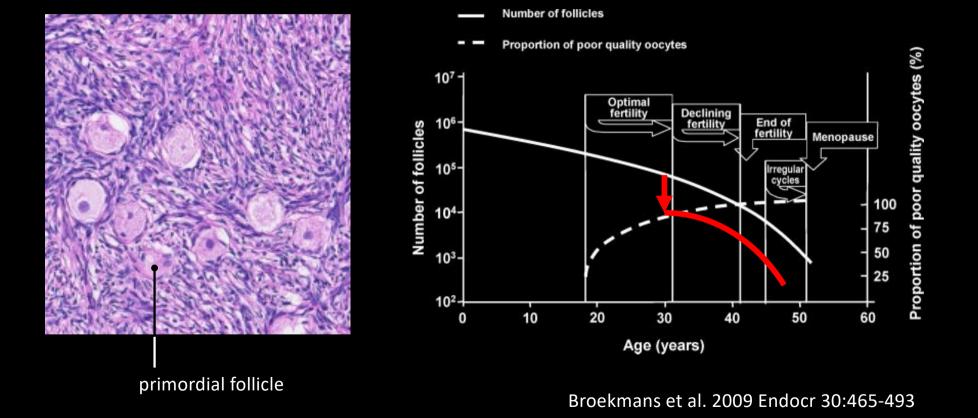




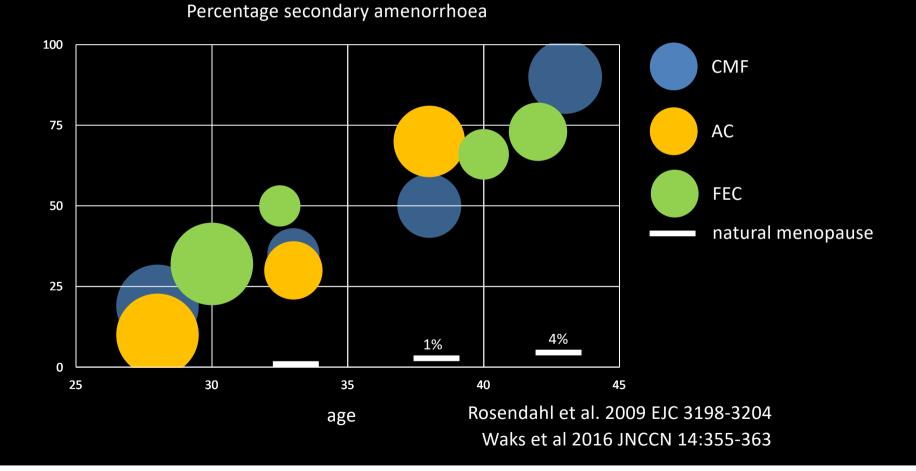
Fertility preservation treatment



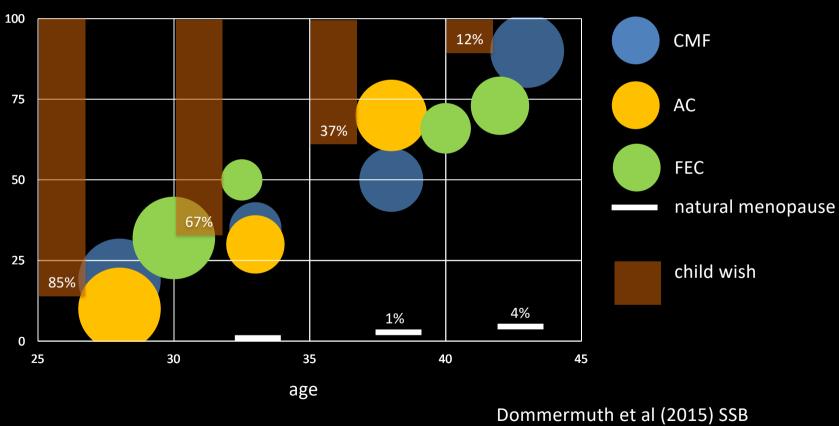
Chemotherapy reduces ovarian reserve



Breast cancer treatment & amenorrhoea

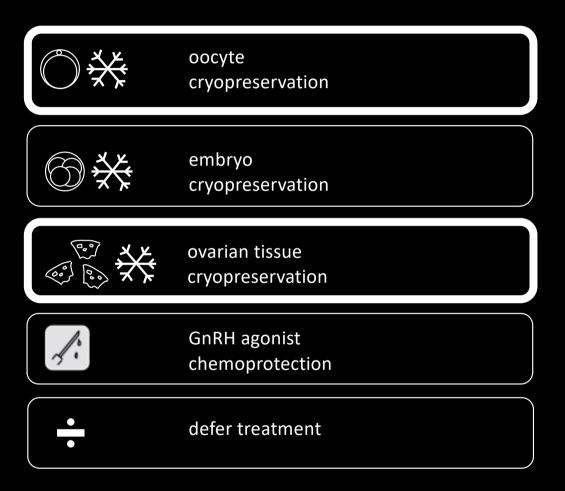


Breast cancer treatment & amenorrhoea

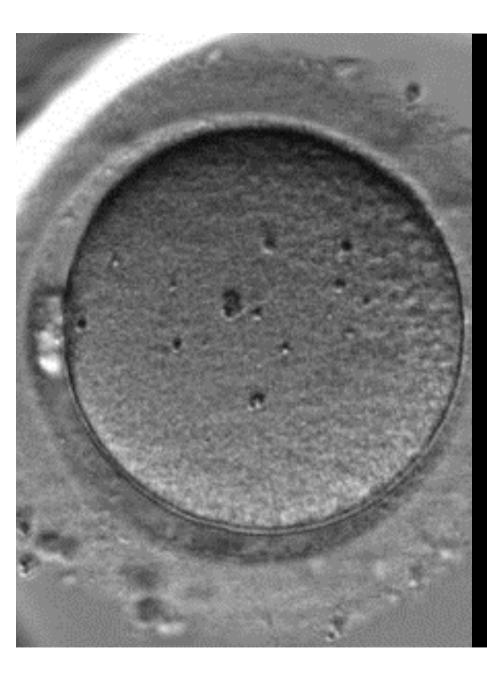


Percentage secondary amenorrhoea

Options for fertility preservation



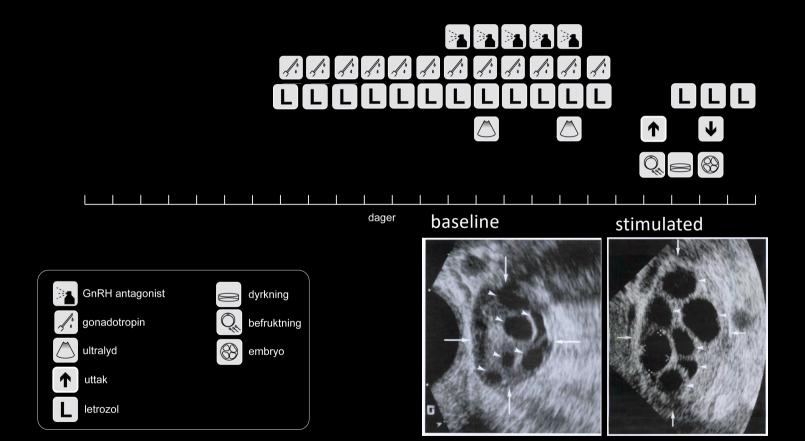
Nasjonalt handlingsprogram for brystkreft 2025

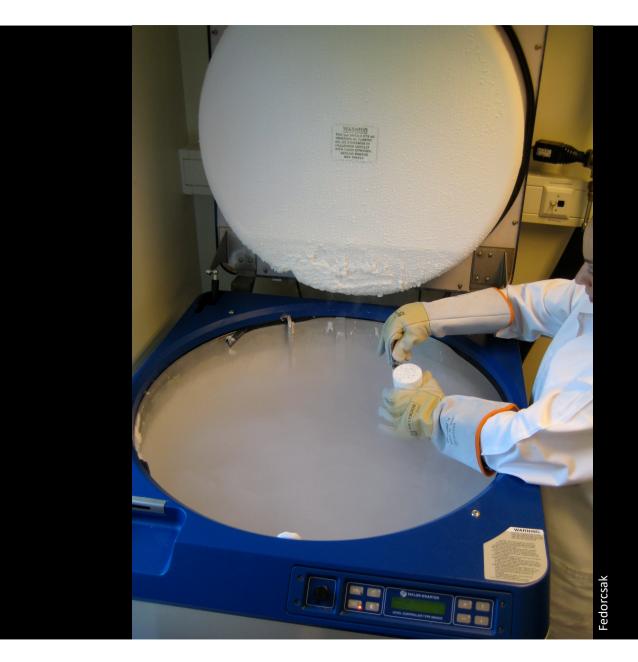


Oocyte cryopreservation • criteria

- low-mid risk of sterility
- age < 40 years
- (childless)
- sufficient ovarian reserve
- possibility of future pregnancy

Individualised ovarian stimulation protocols

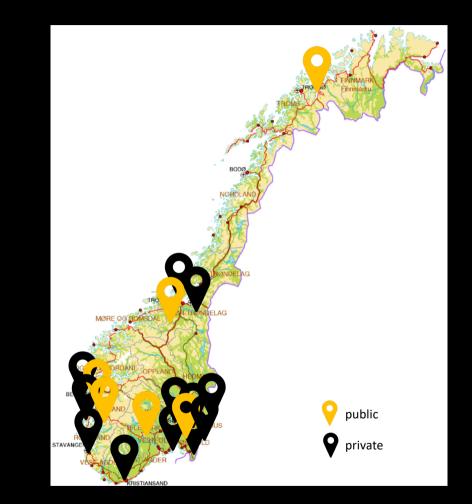




Storage

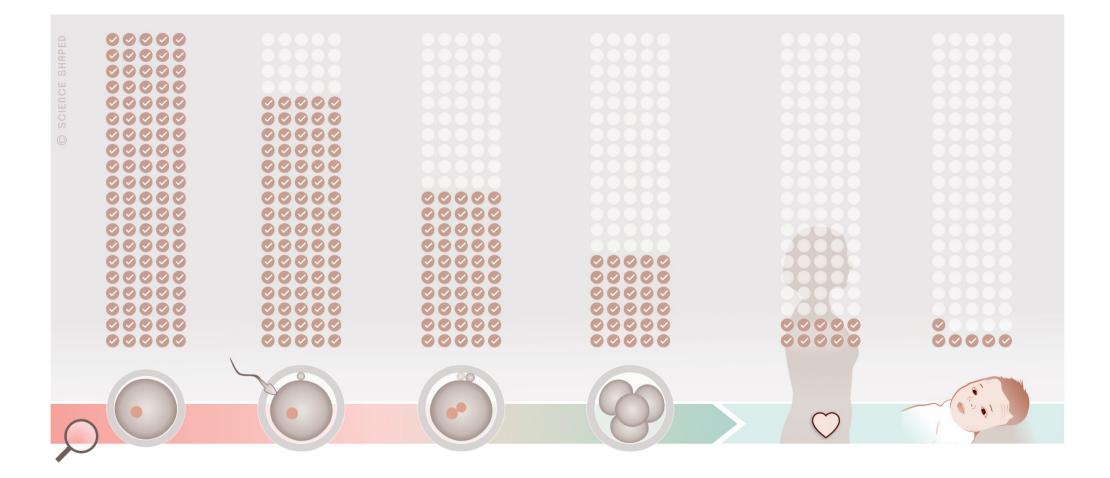
Oocytes, embryos and ovarian tissue can be cryopreserverd until 46 years of age.

Fertility clinics in Norway

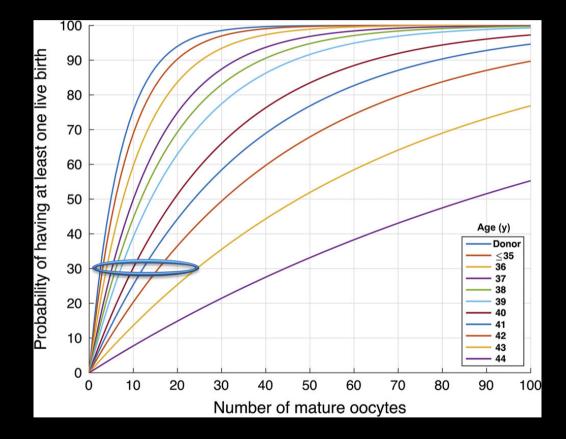


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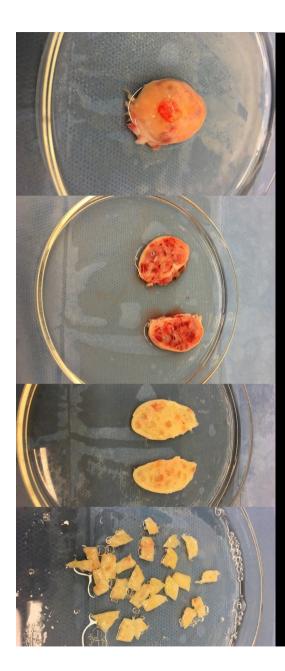
Pregnancy chances are related to oocyte count



Pregnancy chances after egg banking

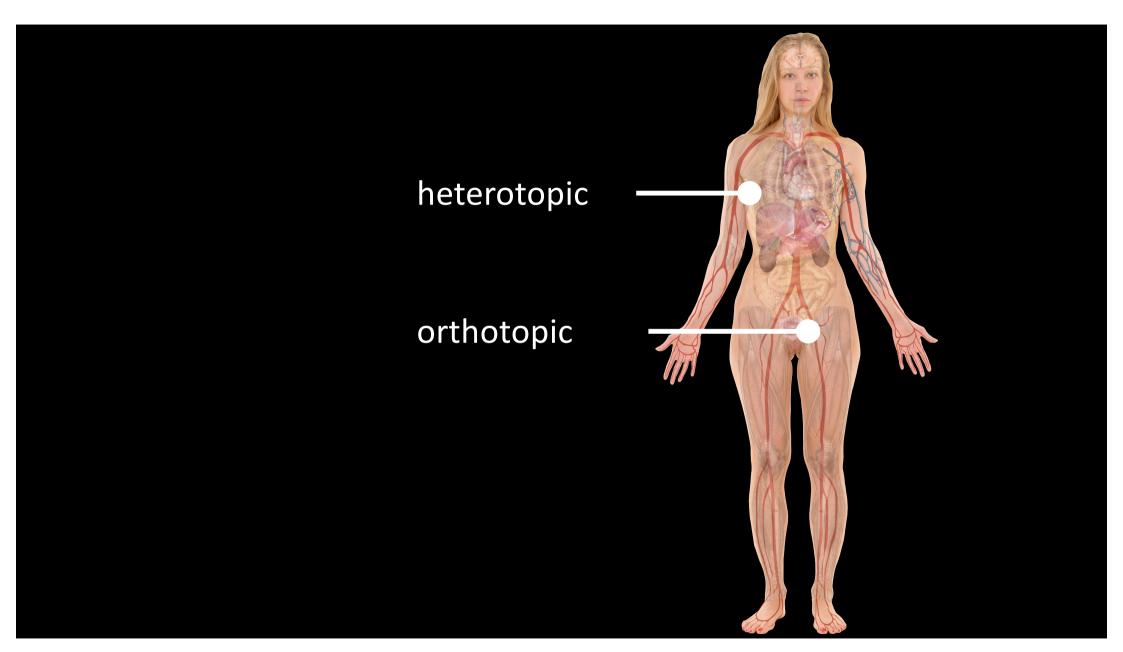


Goldman et al. (2017) Hum Reprod 32:853

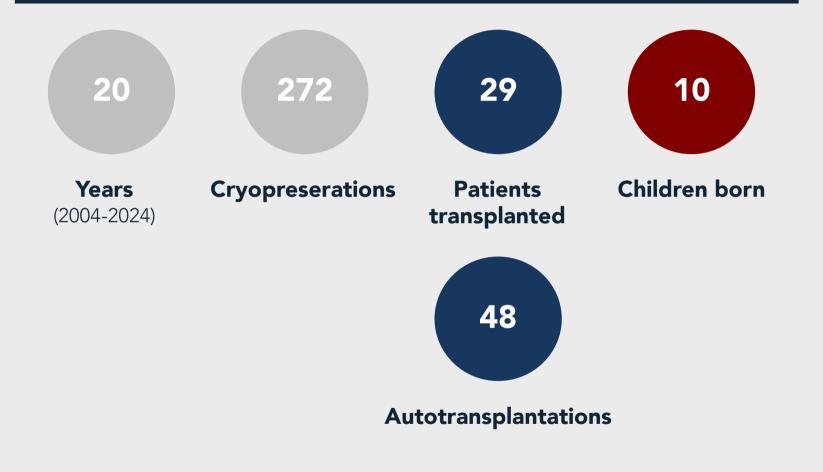


Ovarian tissue cyopreservation • criteria

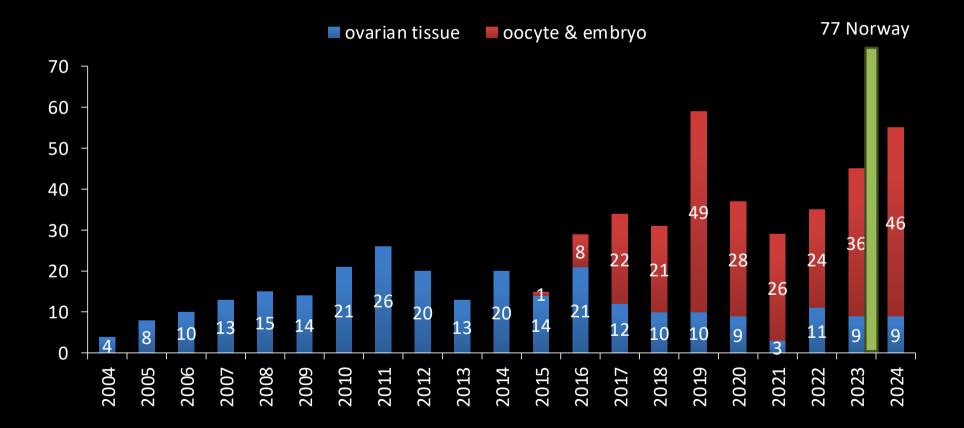
- high > 50% risk of sterility
- age < 35 years
- childless
- good ovarian reserve
- possibility of future pregnancy
- no time for egg banking



Ovarian tissue cryopreservation program

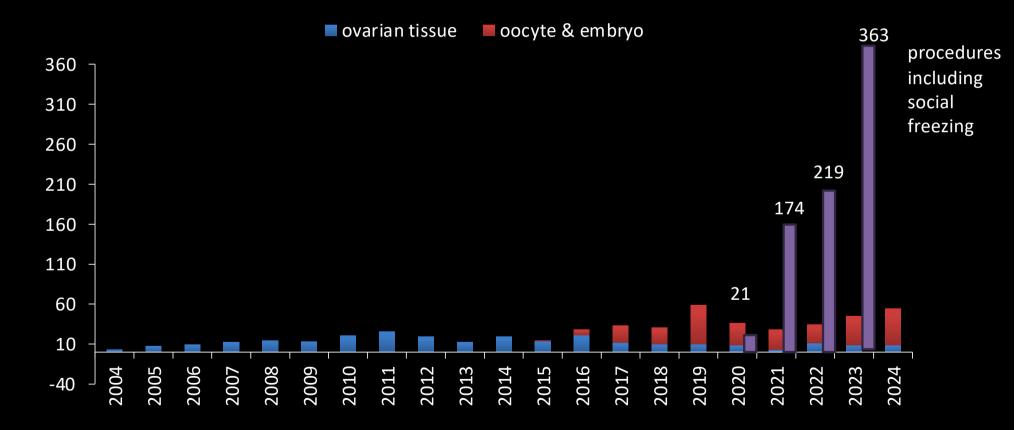


Fertility preservation in Oslo



Årsrapport, Nasjonal behandlingstjeneste for fertilitetsbevarende behandling

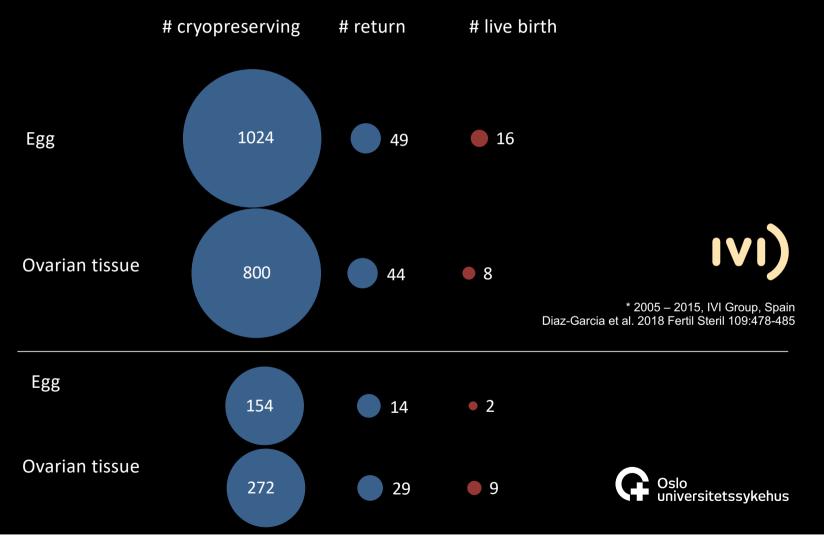
Fertility preservation in Norway



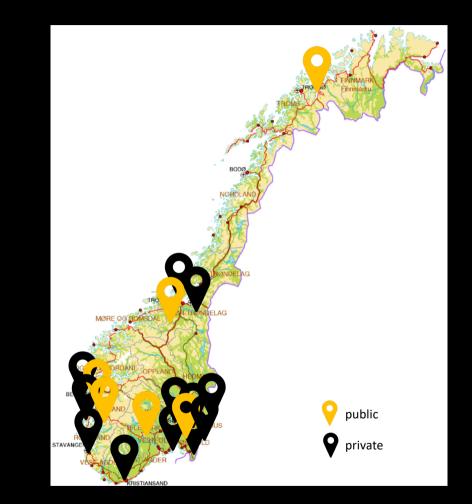
Årsrapport, Nasjonal behandlingstjeneste for fertilitetsbevarende behandling

CHALLENGES

Use of cryopreserved oocytes and ovarian tissue

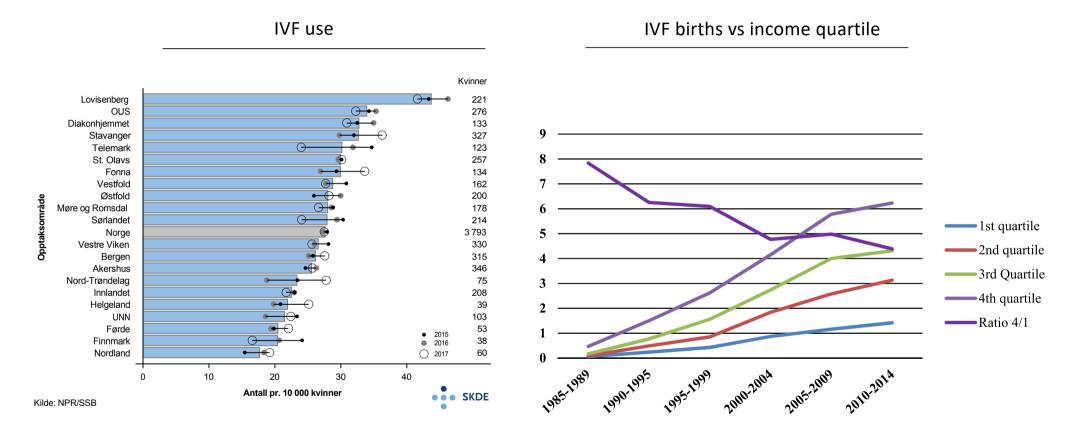


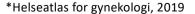
Fertility clinics in Norway



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Geographic and socio-economic inequity

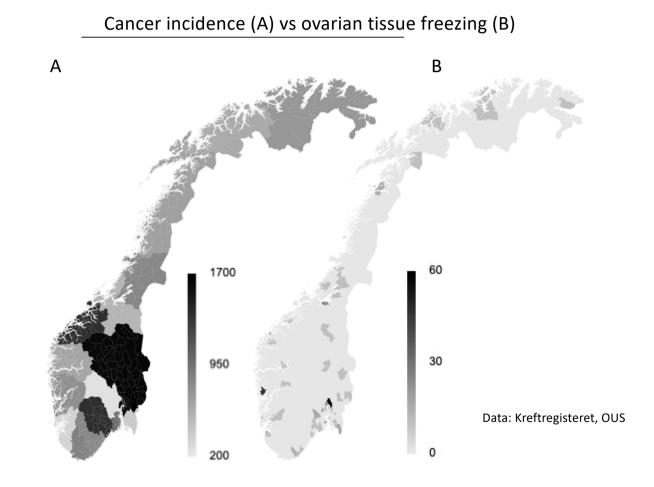






Goisis et al 2020 Hum Reprod 6:1441-50

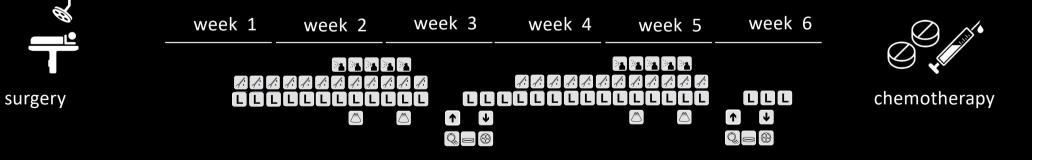
Inequity in fertility preservation?



Guidelines 2025

- All patients should be informed about risks and options.
- Individual counselling.
- Early referral to fertility cente.
- Fertility preservation must not delay cancer treatment.

	cryopreservation of			
	oocytes	embryos	ovarian tissue	GnRH agonist
< 40 years	recommended	not recommended	conditional	uncertain effect



OncoFertBot



tinyurl.com/OncoFertBot

OncoFertBot

OncoFertBot is GPT assistant that will answer your questions based on selected international guidelines for fertility preservation.

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- Min pasient er kvinne, 35 år, hun fikk nylig oppdaget brystkreft som er ER-, PR-, HER2+. Hun har ikke barn, ingen partner, bekymret for fertilitet. Hvilke alternativer finnes?
- For your patient, who is a 35-year-old woman with HER2+ breast cancer and concerns about fertility, several fertility preservation options are available:
- Ovarian Tissue Cryopreservation and Transplantation: This method is no longer considered experimental and can be an option in cases where there is insufficient time for ovarian stimulation or when abdominal surgery is required [4:1†Roberts-2024-Fertility preservation in patient].
- Embryo Cryopreservation: This is an established method of fertility preservation and involves the freezing of embryos after in vitro fertilization. It is suitable for patients who have a male partner or are willing to use donor sperm [4:6†su-et-al-2025-fertility-preservation-inpeople-with-cancer-asco-guideline-update].
- Mature Oocyte Cryopreservation: This involves the freezing of unfertilized oocytes and is particularly suitable for females who do not have a male partner and do not wish to use donor sperm. This method is also recommended for its flexibility and high success rates [4:6†su-et-al-2025-fertility-preservation-in-people-with-cancer-asco-guideline-update].
- GnRH Agonist Therapy During Chemotherapy: Although there is some controversy, some guidelines suggest that GnRH agonist therapy during chemotherapy might help preserve ovarian function, particularly in premenopausal women with ER-negative tumors [4:2†JCO.2018.78.1914].

It is crucial to discuss these options with your patient, considering her personal, medical, and future reproductive goals. The choice of fertility preservation method should be made in consultation with both oncology and reproductive specialists to ensure the best possible outcome.

Hva vil du anbefale mest?

- Based on the information provided and the specific characteristics of your patient's cancer (ER-, PR-, HER2+), the most recommended fertility preservation options would be:
- Mature Oocyte Cryopreservation: This method is particularly suitable for your patient as it does not require a male partner and avoids the use of donor sperm. It offers flexibility and has been associated with high success rates. This option allows her to preserve her eggs