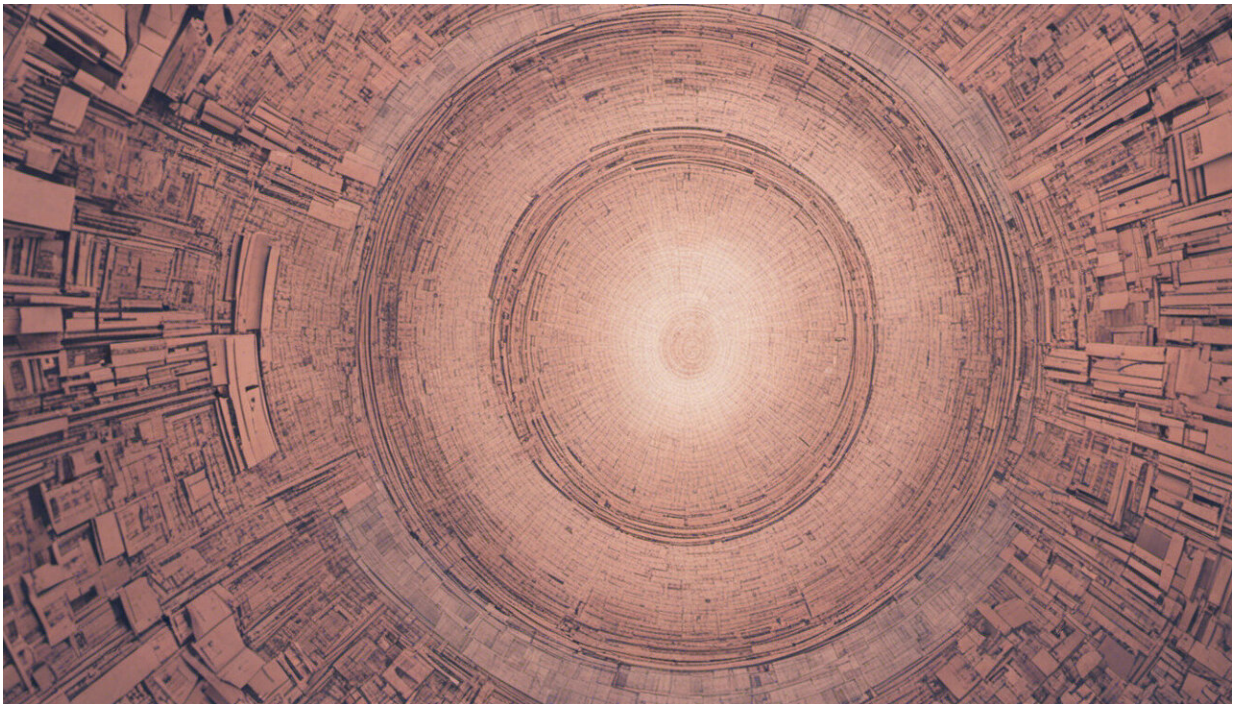


# Starting cancer treatment? You should discuss fertility first

October 31 2022, by Violet Kieu and Kate Stern

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Credit: AI-generated image ([disclaimer](#))

Not all Australians with cancer are getting the fertility care they need.

In 2022, it is predicted more than 8,200 Australians under 40—in their reproductive years—will be [diagnosed with cancer](#). This is more than double the rate in the 1980s.

The good news is more men, women and children than ever are surviving [cancer](#). This is due to earlier diagnosis and more successful cancer treatments. Now [over 85%](#) of patients under 40 will still be alive five years after their [cancer diagnosis](#).

However, many of them might not be aware of the potential decrease in fertility after cancer treatments, and their options for protecting their future ability to have children. Some estimates suggest [only half](#) of people with cancer have a documented fertility preservation discussion.

A mother diagnosed with brain cancer while pregnant is urging others to consider how treatment can affect their ability to have children.

Specialists say less than half of patients know or are told about preserving their fertility while they can. [@Elisabeth\\_Moss9](#)  
[#9News pic.twitter.com/U5GsQZiXm5](#)

— 9News Melbourne (@9NewsMelb) [September 24, 2022](#)

## How cancer treatment can affect fertility

Both cancer and its treatments can reduce fertility for all genders.

Chemotherapy, radiation and surgery may [permanently reduce](#) the number of egg and sperm cells, which may lead to difficulty conceiving in the future.

The store of eggs is laid down before birth, and to date there is no good evidence eggs can be replenished. Chemotherapy—chemical drug treatments that attack [cancer cells](#)—may also harm the delicate egg and sperm cells and reduce their numbers.

Likewise, radiotherapy—directed radiation energy at cancer cells—may scatter and cause scarring of the ovaries and testicular tissue.

Sometimes, with high-dose chemotherapy or radiotherapy, all the eggs, sperm cells and supporting tissues may be destroyed. Direct surgery to [reproductive organs](#) may lead to reduced fertility.

Often, it is not known what the full effect of [cancer treatment](#) will be on fertility, and the effect may be different for each individual.

### **What is oncofertility, and how can it help?**

[Oncofertility](#) is a relatively recently established [medical field](#) that provides options for fertility preservation. Addressing quality of life from a biological, psychological and social perspective acknowledges the potential distress that reduced fertility might cause cancer survivors.

Advances in assisted reproductive technology, such as [vitrification](#) (fast freezing), means we can preserve eggs, embryos, ovarian tissue, sperm and testicular tissue for future use. This is known as medical fertility preservation.

Fertility preservation may be someone's best chance for biological children in the future. Oncofertility considers an individual's future goals for family and parenthood, alongside cancer treatments.

### **Four new things we know about oncofertility**

This year, the [Clinical Oncology Society of Australia](#) (COSA) updated its guidelines for fertility preservation for people with cancer.

It is based on advice from Australian experts including medical specialists, scientific researchers, psychologists, health managers and

nurses, public consultation and feedback.

The COSA guidelines discuss fertility [treatment](#) options, referral pathways and psychological support. They also cover contraception during cancer treatment (to avoid disruption to the treatment regimen), interrupting hormone treatment to conceive, assisted reproduction, and the risk of cancer recurrence. This guideline aims to support conception and pregnancy in cancer survivors.

In our paper published today in the [Medical Journal of Australia](#) we update medical practitioners on the latest in oncofertility knowledge:

1. that pregnancy rates after freezing eggs are similar to those after freezing embryos, with live birth rates of 46% and 54% respectively in [one study](#)
2. ovarian tissue [freezing](#) and grafting for females is no longer considered "experimental," however special oversight for pre-pubertal girls under the age of 13 years is recommended. This is because clinical experience of patients who were 20 years of age or younger at the time of fertility preservation [remains limited](#)
3. extracting sperm from testicular tissue by [microsurgery](#) may be considered for men who have already undergone cancer treatment and who were [previously thought to have no sperm](#)
4. testicular tissue freezing in pre-pubertal boys is currently considered "[experimental](#)" as there are no mature [sperm cells](#). Clinical ethical oversight is required while new methods are trialed to use these early cells for fertility.

**Timing is important**

Once a diagnosis of cancer is made, discussion and decisions around fertility can be urgent and time-critical.

This is to allow time for referral to an oncofertility unit, appropriate counseling and informed decision-making to occur.

It takes time to plan and perform fertility preservation (for example, eggs may take around 14 days to grow and collect for freezing) so promptness is important to prevent delays in cancer treatment.

## Educating patients

Not everyone of child-producing age who is diagnosed with cancer is referred to oncofertility health services promptly, if at all. This can lead to feelings of [conflict and regret](#).

Our team of fertility specialists from the [Royal Women's](#) and [Royal Children's](#) Hospitals collaborated with the [Western and Central Melbourne Integrated Cancer Service](#) to develop a suite of animated patient education videos to address this gap.

The [Fertility after Cancer](#) videos—available in multiple languages, reviewed by cancer patients and support groups, age-appropriate for children, adolescents, adults, and their families—discuss fertility preservation options, risks, benefits and alternatives.

Our goal is that all Australians with cancer have access to information, and support, regarding the impact of cancer treatments on their future fertility.

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