

Rate of women with pregnancy-associated cancer on the increase

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The rate of pregnancy-associated cancer is increasing and is only partially explained by the rise in older mothers suggests new research published today (5 September) in *BJOG: An International Journal of Obstetrics and Gynaecology*.

A large Australian study looked at 781,907 women who gave birth in [New South Wales](#) (NSW) between 1994 and 2008 which corresponds to 1,309,501 maternities. Women with pregnancy-associated cancer, where the initial diagnosis of cancer is made during pregnancy or within 12 months of delivery, are compared to women without cancer.

A total of 1,798 pregnancy-associated cancers were identified from the total number of maternities corresponding to an overall incidence rate of 137.3 per 100,000 maternities. The research found that between 1994 and 2008 the incidence rate of pregnancy-associated cancer increased from 112.3 to 191.5 per 100,000 maternities.

During this period [maternal age](#) also increased. The percentage of women aged 35 years and over increased from 13.2% to 23.6% in New South Wales.

Despite this the research found that only 14% of the increase was explained by increasing maternal age. The research looked at independent risk factors for pregnancy-associated cancer including older maternal age, Australian-born, socio-economic status, multiparity, [multiple pregnancy](#) and prior diagnosis of cancer.

The authors state that improved diagnostic techniques, detection and increased interaction with health services during pregnancy may contribute to higher [incidence rates](#) of pregnancy-associated cancer. They also say that the genetic and environmental origins of pregnancy-associated cancers are likely to pre-date the pregnancy,

however the hormones and growth factors necessary for [fetal growth](#) may accelerate tumour growth.

The most common cancers were melanoma of skin, [breast cancer](#), thyroid and other endocrine cancers, gynaecological and lymphohaematopoietic cancers. However it must be noted that Australia has the highest incidence of melanoma in the world.

In addition the study looked at pregnancy outcomes and found that cancer during pregnancy was associated with a significantly increased risk of caesarean section, planned preterm birth and large-for-gestational-age infants.

Professor Christine Roberts, Clinical and Population Perinatal Health Research, Kolling Institute of Medical Research, University of Sydney, New South Wales and co-author of the paper said:

"This is a large study and looks at contemporary data. The trend for women to postpone childbearing has raised concerns about the incidence of cancer in pregnancy increasing.

"Although maternal age was a strong risk factor for cancer, increasing maternal age explained only some of the increase in cancer incidence. Pregnancy increases women's interaction with health services and the possibility for diagnosis is therefore increased. Furthermore, pregnancy may actually influence tumour growth."

John Thorp, BJOG Deputy-Editor-in-Chief added:

"Pregnancy is a time when a woman comes into contact with healthcare workers more frequently than normal and this may play a part in certain cancers being picked up more. The most common cancer was melanoma of the skin which it must be noted is more common in Australia than other countries."

More information: Lee Y, Roberts C, Dobbins T, Stavrou E, Black K, Morris J, Young J. Incidence and outcomes of pregnancy-associated cancer in Australia, 1994–2008: a population-based linkage study. *BJOG* 2012; [DOI: 10.1111/j.1471-0528.2012.03475.x](https://doi.org/10.1111/j.1471-0528.2012.03475.x)

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