



Seattle Sperm Bank

Announcement!

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THOUGHT OF THE MONTH

If you do what you've always done, you'll get what you've always gotten.

Tony Robbins

ANNOUNCING NEW DONORS THIS MONTH

Xytex

- 5403 - Caucasian
- 10008 - Asian
- 3091 - Caucasian XYGene, Carrier
- 6767 - African American XyGene, Non Carrier

Fairfax

- 4940 - Caucasian
- 4200 - Caucasian
- 4759 - Caucasian
- 4774 - Caucasian

Seattle Sperm Bank

- Fremont - Caucasian
- Lionel - Caucasian
- Kenney - Caucasian
- Cory - Caucasian
- Shen - Asian

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Endocrine-disrupting chemicals may be threatening fertility in industrialized countries

The birth rate is declining in all industrialised countries, and socioeconomic factors and women's age are not solely to blame. Male reproductive health and environmental factors are also significant, as concluded in a new scientific review article. The article was recently published in the American journal *Physiological Reviews*.

Behind the article are fertility researchers from Denmark, the US and Finland. The researchers studied a number of factors related to fertility, and one of the main conclusions of their study was that poor semen quality contributed to increases in infertility and the use of assisted reproductive technology.

The study also revealed higher incidence of testicular cancer worldwide, with the greatest frequency among Caucasian populations. Moreover, the researchers also observed lower levels of testosterone in average men. "I was surprised that we found such poor semen quality among young men aged 20 to 25. The average man had up to 90% of abnormal sperm. Normally, there would be so many sperms that a few abnormal ones would not affect fertility. However, it appears that we are at a tipping point in industrialised countries where poor semen quality is so widespread that we must suspect

that it results in low pregnancy rates," said first author of the article, Professor Niels E. Skakkebaek from the Department of Growth and Reproduction (EDMaRC) at Rigshospitalet and the University of Copenhagen.

"The article also demonstrates the impact of the increasing number of male reproductive problems on low birth rates. There is no doubt that environmental factors are playing a role. These are the correlations we are researching at the new research centre EDMaRC at Rigshospitalet," added Professor Anders Juul, who is the last author of the article.

Many of the male reproductive problems could be due to damage to the testes during embryonic development. While the reproductive problems could arise from genetic changes, "recent evidence suggests that most often they are related to environmental exposures of the fetal testes," the researcher team wrote.

"Since the disorders in male genitals have increased over a relatively short period of time, genetics alone cannot explain this development. There is no doubt that environmental factors are playing a role and that endocrine-disrupting chemicals, which have the same effect on animals, are under great suspicion. The exposure that young people are subjected to today can determine not only their own, but also their

children's, ability to procreate," explained Professor Skakkebaek.

According to Professor Skakkebaek, the study has significant public health implications. "Governments in industrialised countries seem much more interested in the current economic aspects of low birth rates and do not see the writing on the wall for the long-term environmental effects on our population's ability to reproduce. Moreover, there is much focus on the age of delivering women as the only biological factor behind the low birth rates. However, the situation is more complex. Age does indeed play a role. However, we found in our analysis that the average age of a delivering woman in Denmark in 1901 was the same as today, suggesting that delayed childbearing alone cannot explain the current trends."

More research in reproductive medicine needs to be done to understand and address the declining fertility rates. "If socioeconomic factors alone were behind the current declining figures, they could be reversed by political measures. On the other hand, if our populations have become less fertile or more people have even become infertile, our societies are facing much more serious problems. Only biomedical research can identify and solve the problems," concludes Professor Juul.

<https://www.sciencedaily.com/releases/2015/12/151210125644.htm>



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