

Hormonforstyrrende stoffer, hormonsygdomme og fertilitetsforstyrrelser

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ehp

Environmental Health
perspectives
Supplements

WHO workshop 1991
Miljøminister Per Stig Møller

Impact of the Environment on
Reproductive Health



**Miljøprojekt
nr. 290**

1995

**Male Reproductive Health
and
Environmental Chemicals
with Estrogenic Effects**

1995

Ministry of Environment and Energy, Denmark
Danish Environmental Protection Agency

Miljø- og Energiministeriet **Miljøstyrelsen**

Inside Trump's Haunted House / Death of the Keyboard

Newsweek

WHO'S

09.22.2017

The sudden rise in male infertility is a scary national crisis.

KILLING



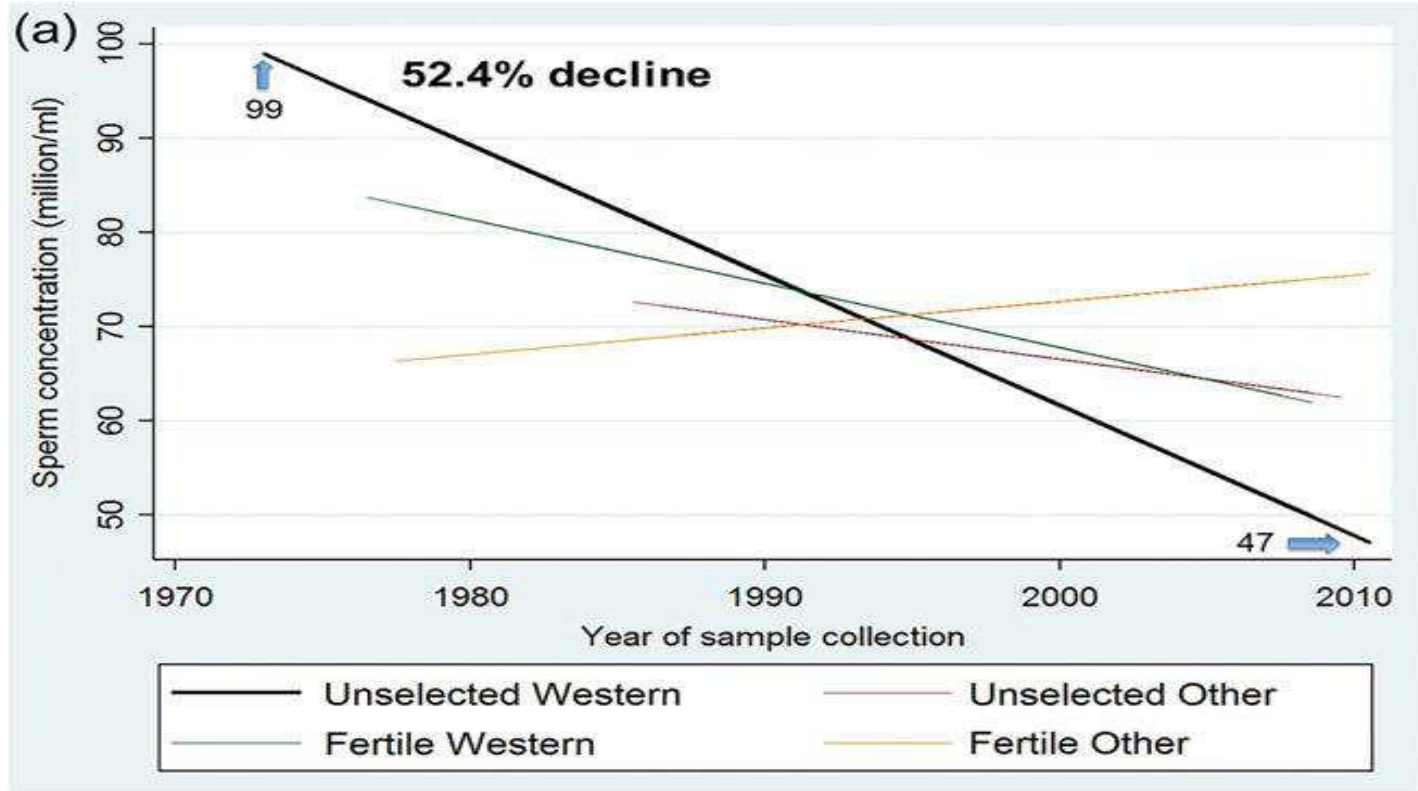
AMERICA'S

And we can't blame it on Trump—or can we?

SPERM?

22 sept. 2017

Nyt fald i sædkvaliteten blandt mænd i vestlige lande



To unge sessionsdeltagere

Concentration: 125 mill/ml

Motility

Progressive: 76%

Non-progressive: 13%

Immotile: 11%



Concentration: 39 mill/ml

Motility

Progressive: 38%

Non-progressive: 17%

Immotile: 45%



Flere barnløse mænd i Danmark

Mænd født i 1945 :	14% barnløse
Mænd født i 1960:	> 20% barnløse

Priskorn et al. IJA, 2012

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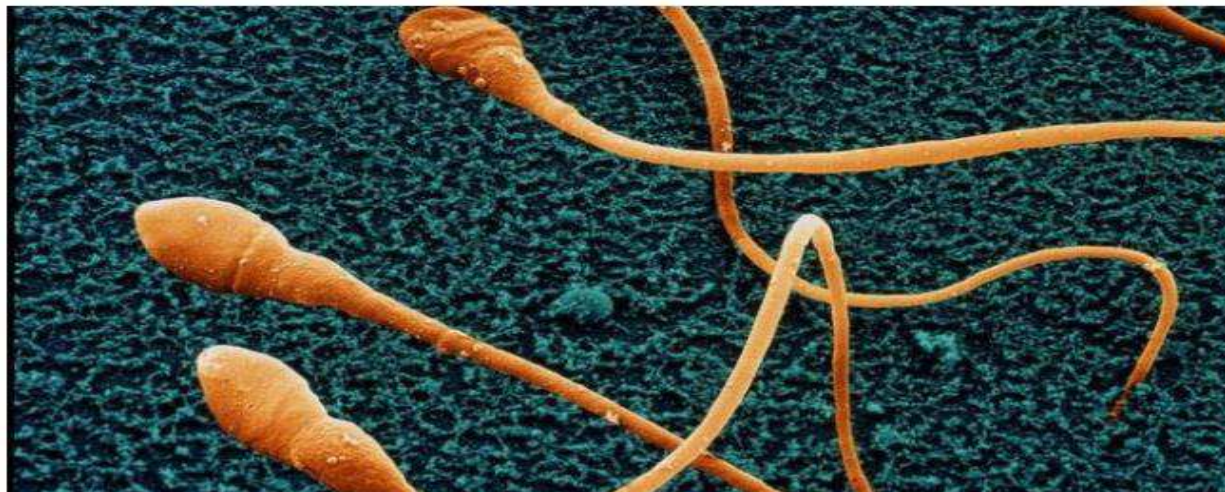
Sperm count drop 'could make humans extinct'

By Pallab Ghosh
Science correspondent, BBC News

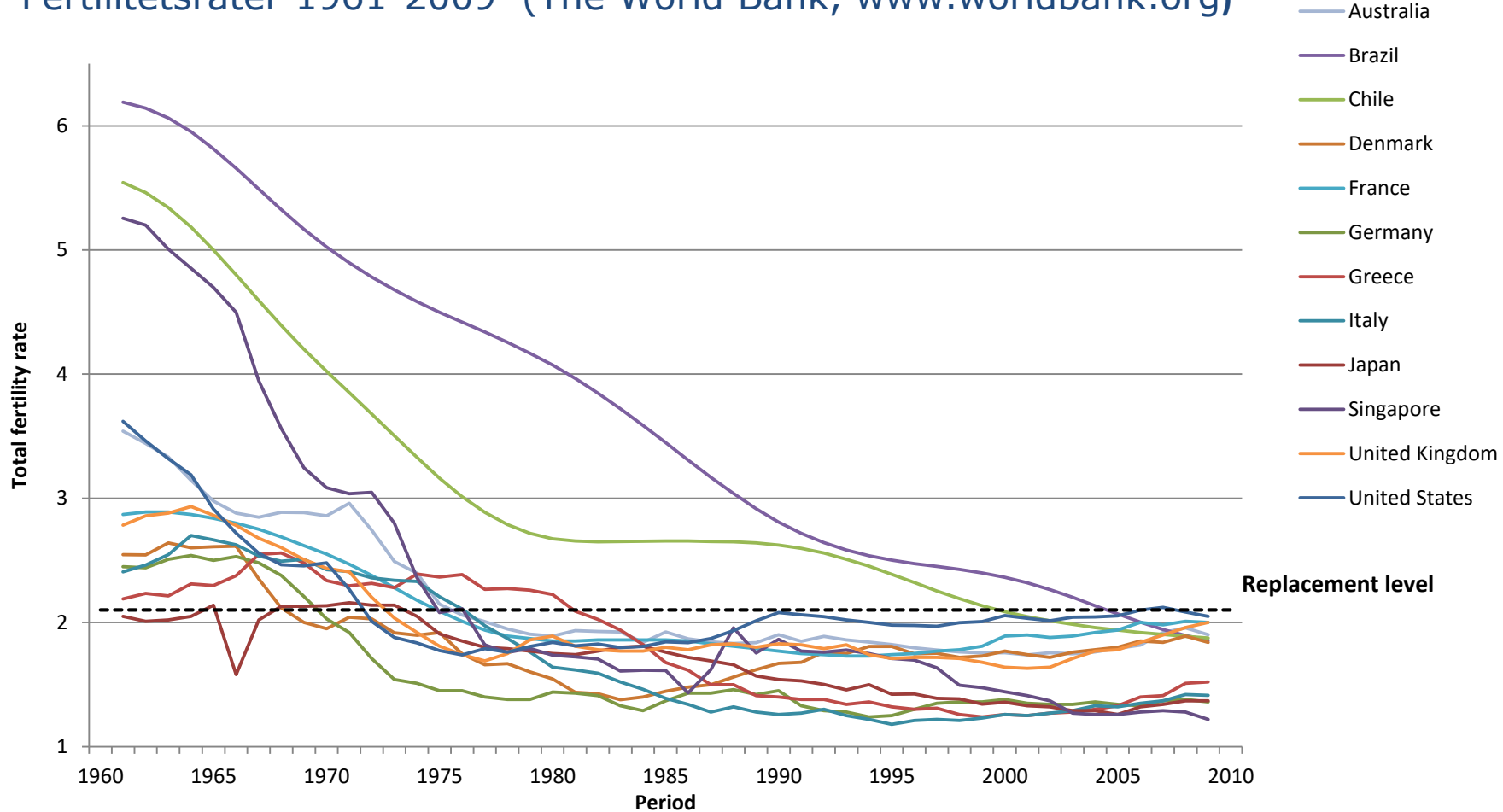
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Fertilitetsrater 1961-2009 (The World Bank, www.worldbank.org)



Internationalt fokus på fertilitetsproblemer

Falling Japanese population puts focus on low birth rate

Unless re-energised, demographics will erode Japan's superpower status

© Wed, Dec 2, 2015, 01:00

David McNeill in Tokyo



Elderly people work out with dumb-bells by a temple in Tokyo recently. The estimated number of people aged 80 or older in Japan has topped 10 million for the first time. Photograph: Yoshikazu Tsuno/AFP.

THE STRAITS TIMES. TUESDAY, JANUARY 18 2015. A SINGAPORE PRESS HOLDINGS PUBLICATION. ESTABLISHED 1845. 90 CENTS.

Fertility figures hit all-time low

Shortage of babies a key hurdle to achieving a sustainable population

By LI XIAOYING
POLITICAL CORRESPONDENT

SINGAPORE'S baby shortage worsened last year when the Total Fertility Rate (TFR) sank to a historic low of 1.16. That is down from 1.22 in 2009, and way below the replacement level of 2.1.

... residents to have more children, Mr Wong said. "The going is hard, but we have not given up. We will continue to support couples' decisions to get married and have children, and create a pro-family environment."

... the veteran minister, who now heads the National Population and Family Division, said that to be viable, Singapore must have enough youngsters for economic growth, and mitigate the impact of ageing.

... But the number of new citizens held steady at 20,000.

... It granted only 29,265 new permanent residence visas last year, half of the 59,460 it granted in 2005.

More reports: Prime Page A2.

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the guardian

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Germany's birthrate is the lowest in Europe - and falling fast

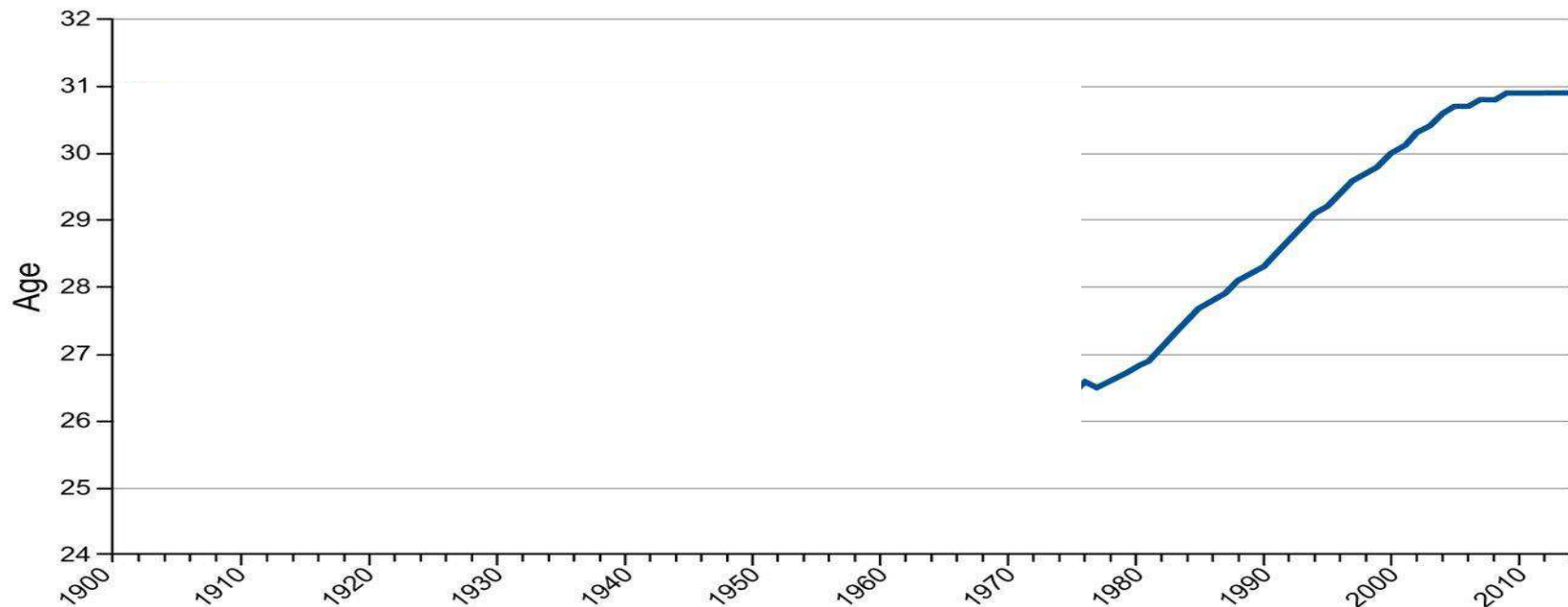
After generous parental allowances fall to reverse the trend, experts call for a different approach



The birthrate in Germany is falling. Many believe this is due to the problems of working women finding childcare. Photograph: Adam Gault / Alamy/Alamy

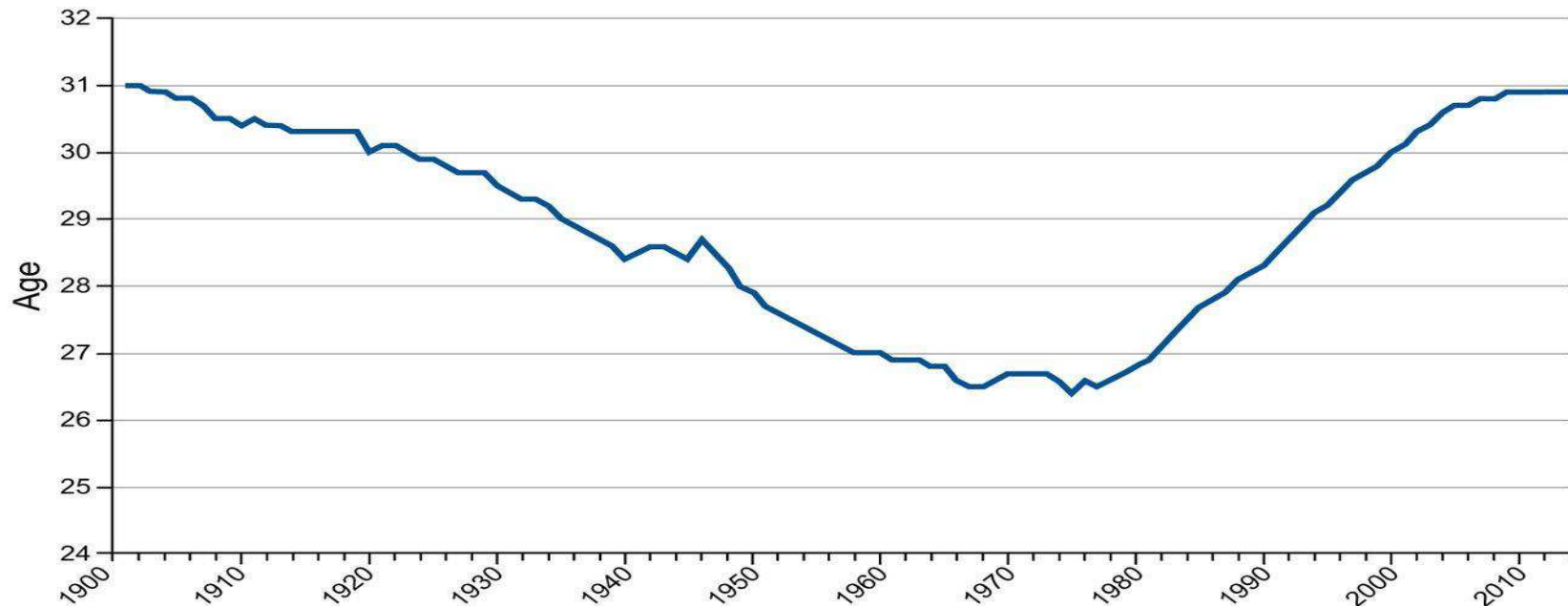
50% færre unge tyskere,
25% færre unge danskere!

Middelalder fødende danske kvinder



Fra Danmarks Statistik

Middelalder fødende danske kvinder

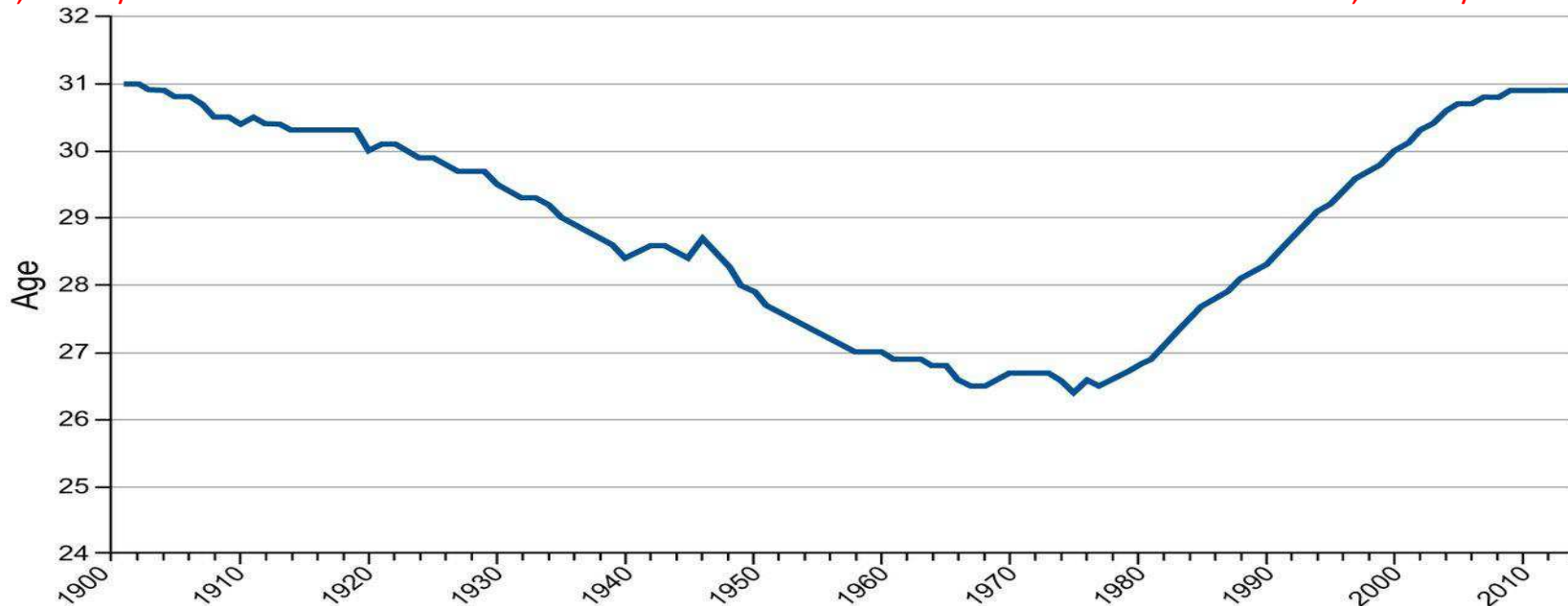


Fra Danmarks Statistik

Middelalder fødende danske kvinder

4,1 barn/kvinde

1,7 barn/kvinde

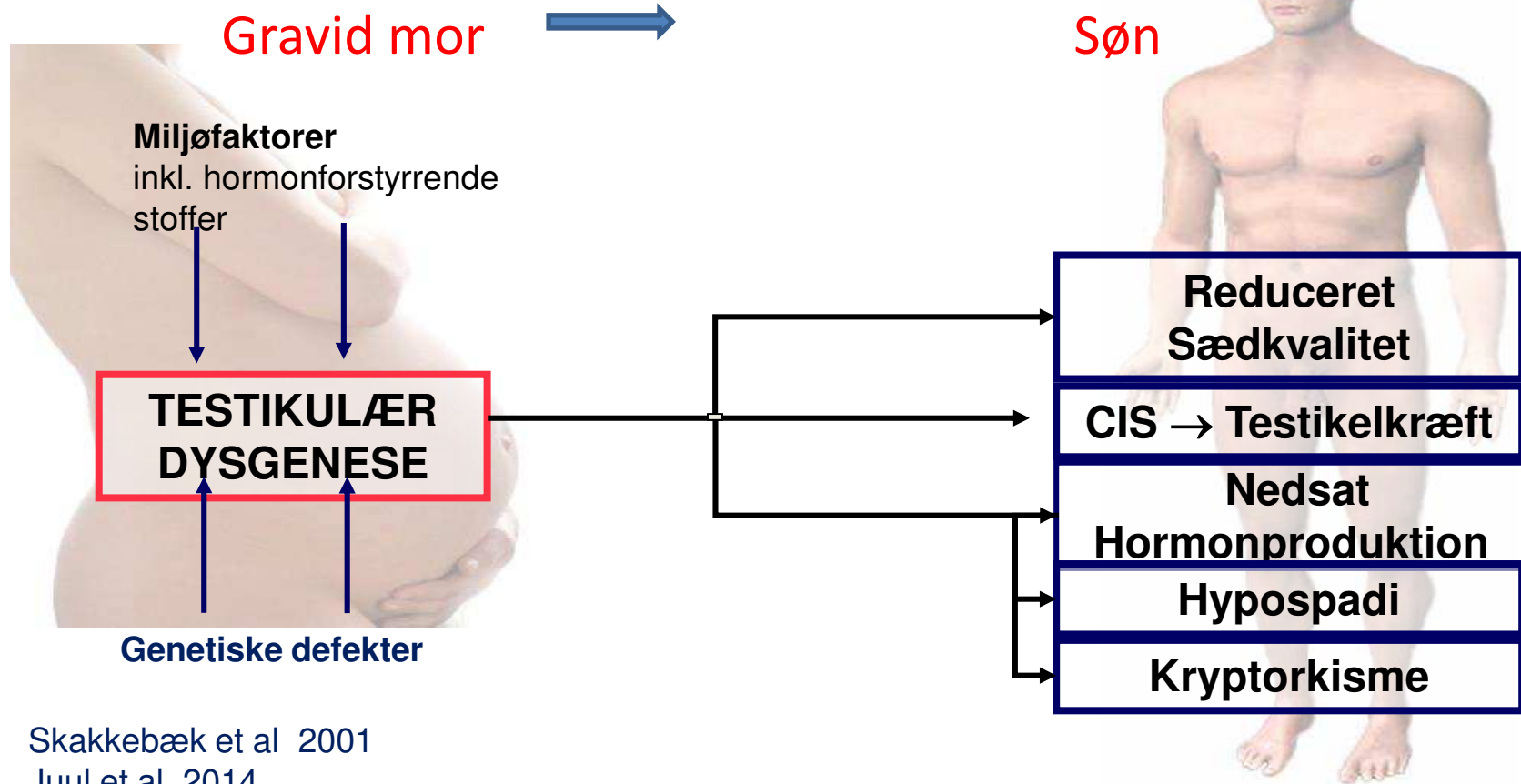


Fra Danmarks Statistik

Fra Dansk Fertilitetselskab

8-10 % af en fødselsårgang fødes efter kunstig befrugtning
I gennemsnit to børn i hver skoleklasse

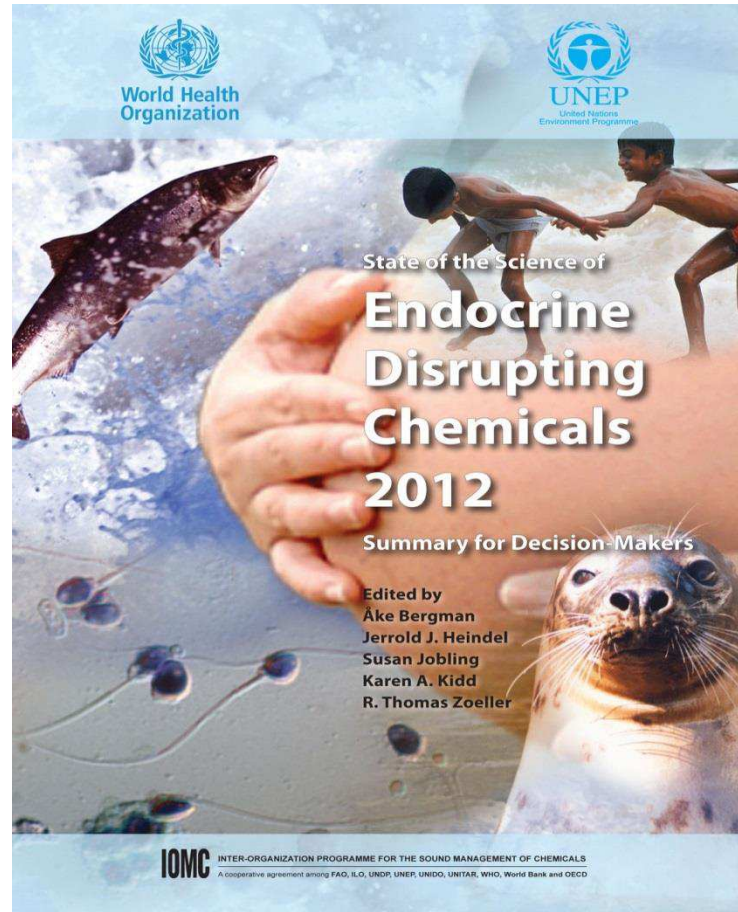
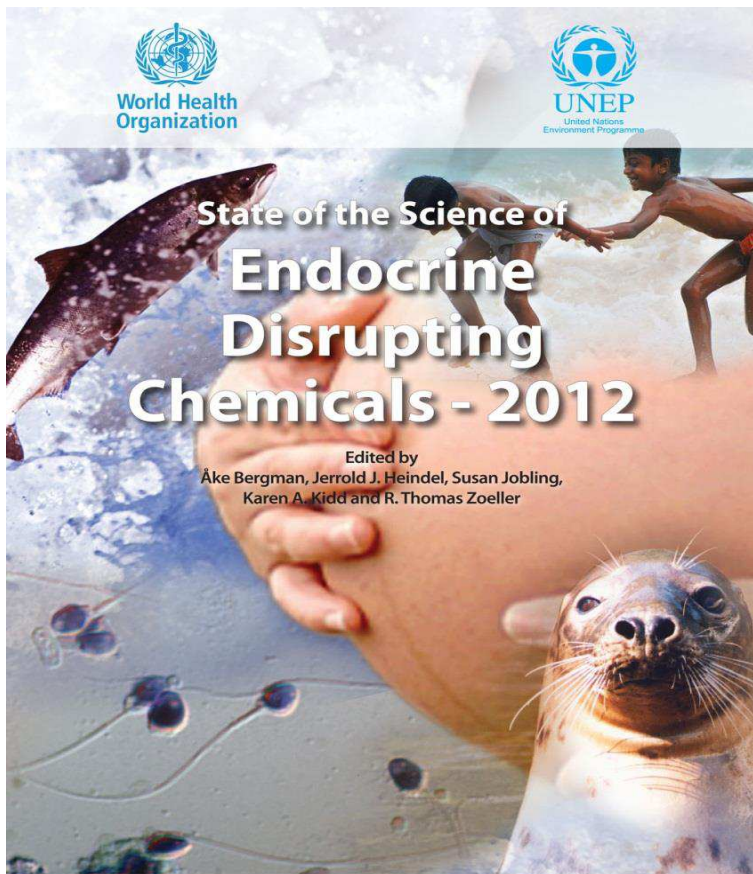
Testikulært Dysgenese Syndrom, TDS

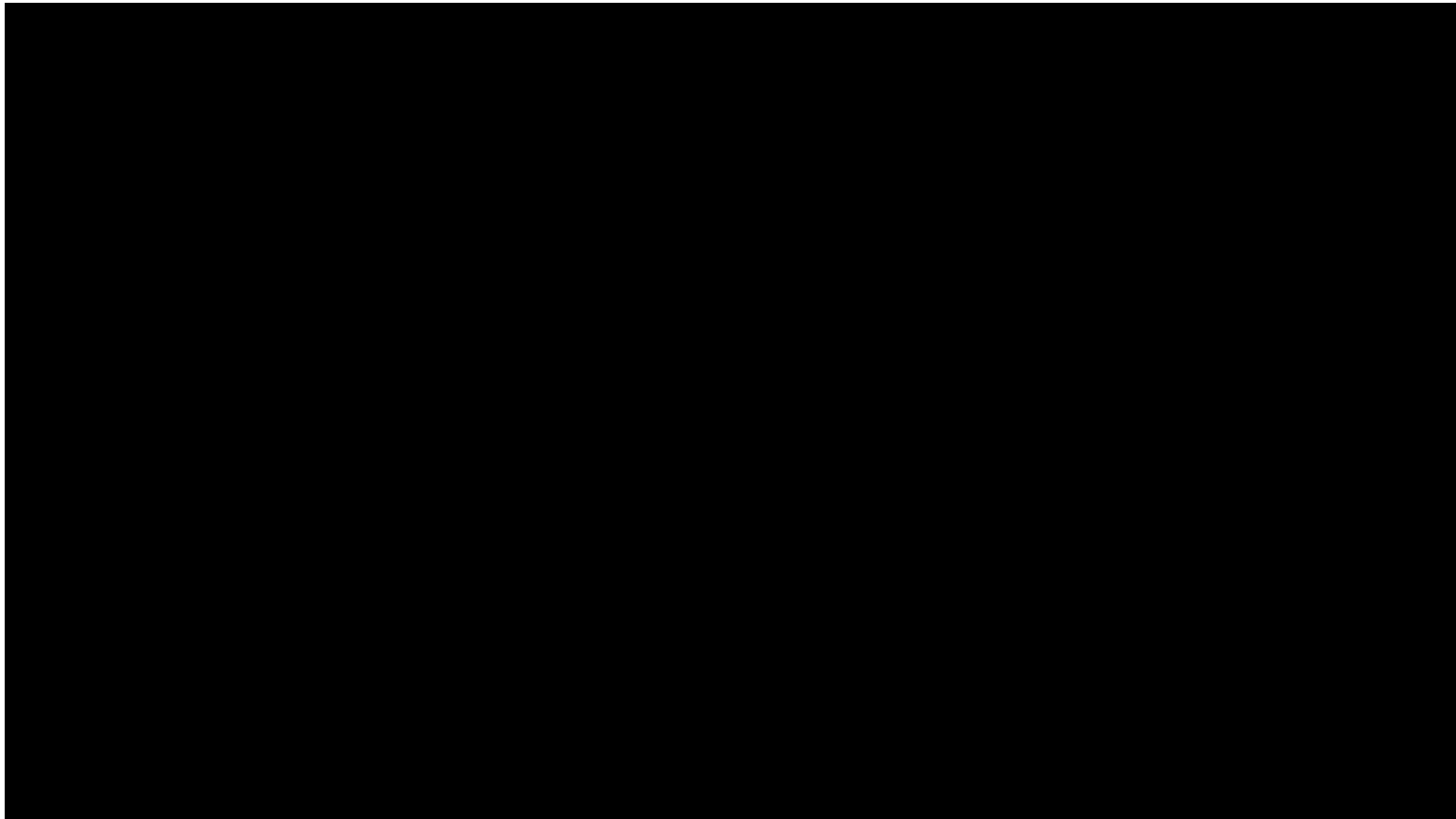


Skakkebæk et al 2001

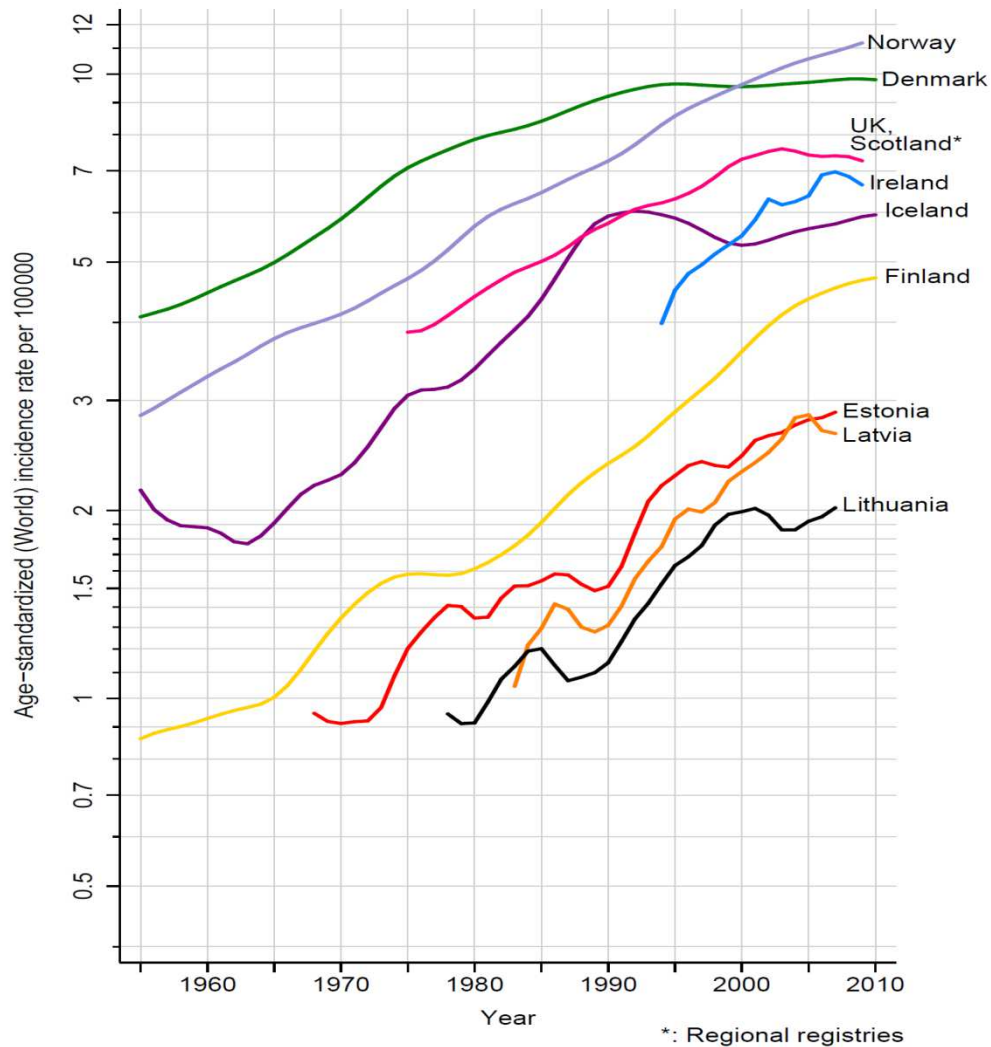
Juul et al. 2014

UNEP/WHO rapport om hormonforstyrrende stoffer





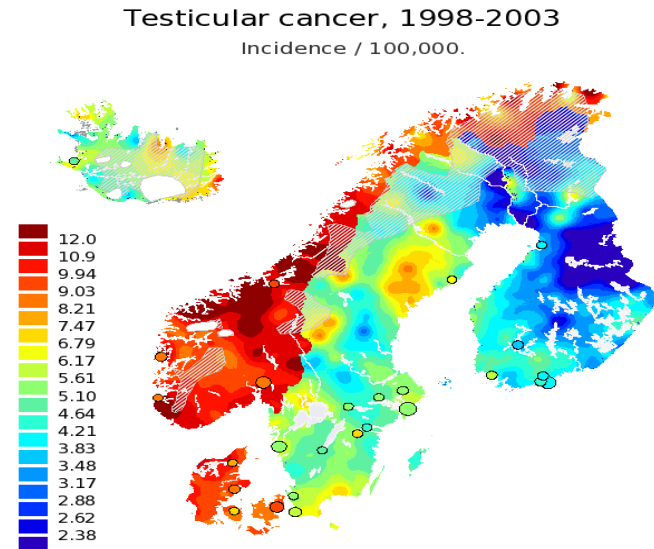
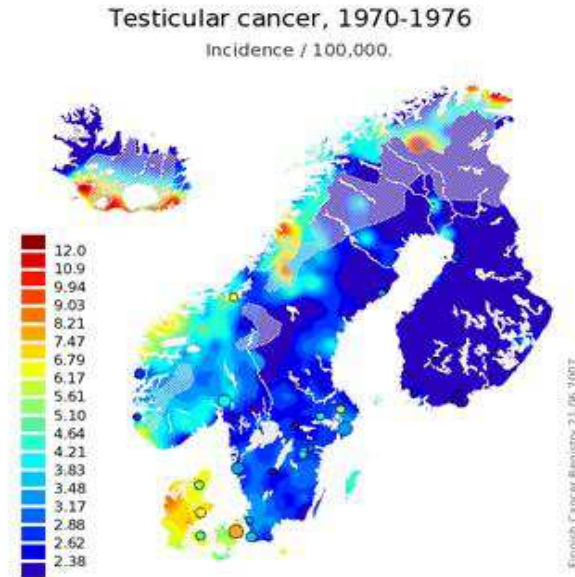
Trends i testikel- kræft



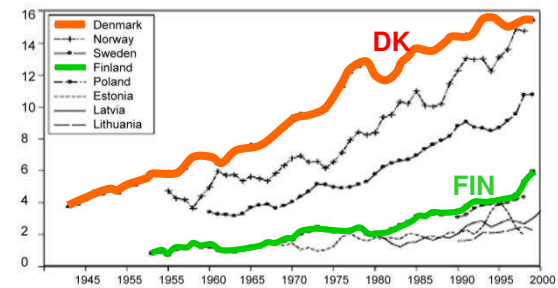
Nordeuropa
Fra Znaor et al,
European Urology,
2014

Kraftig stigning i testikelkræft hos unge nordiske mænd

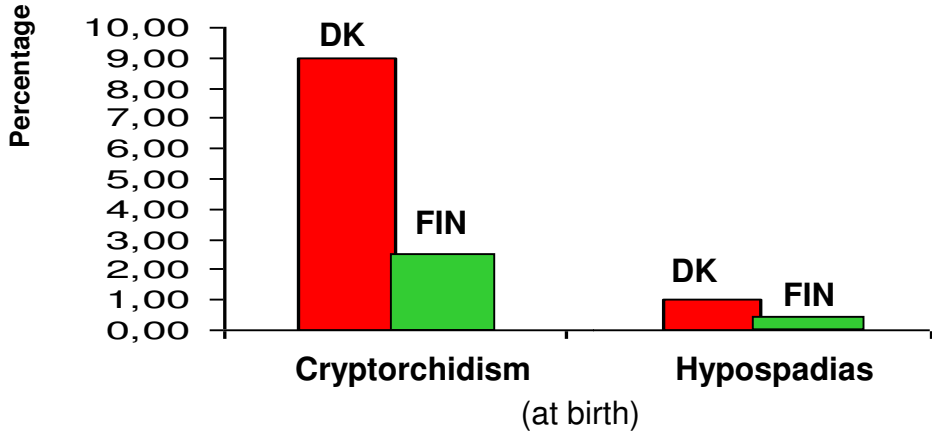
Danmark og Norge ligger højest



Danmark vs. Finland

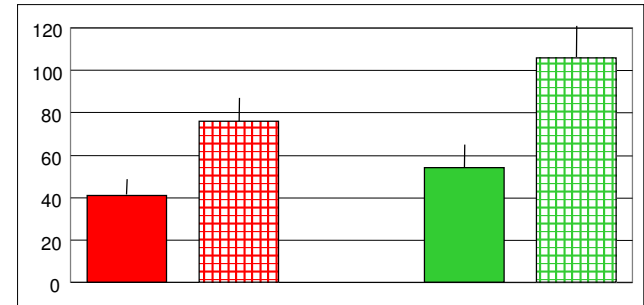


Prevalence of genital malformations in boys



Boisen et al. Lancet 2004; JCEM 2005

Sperm concentrations in DK and FIN



Denmark

Finland



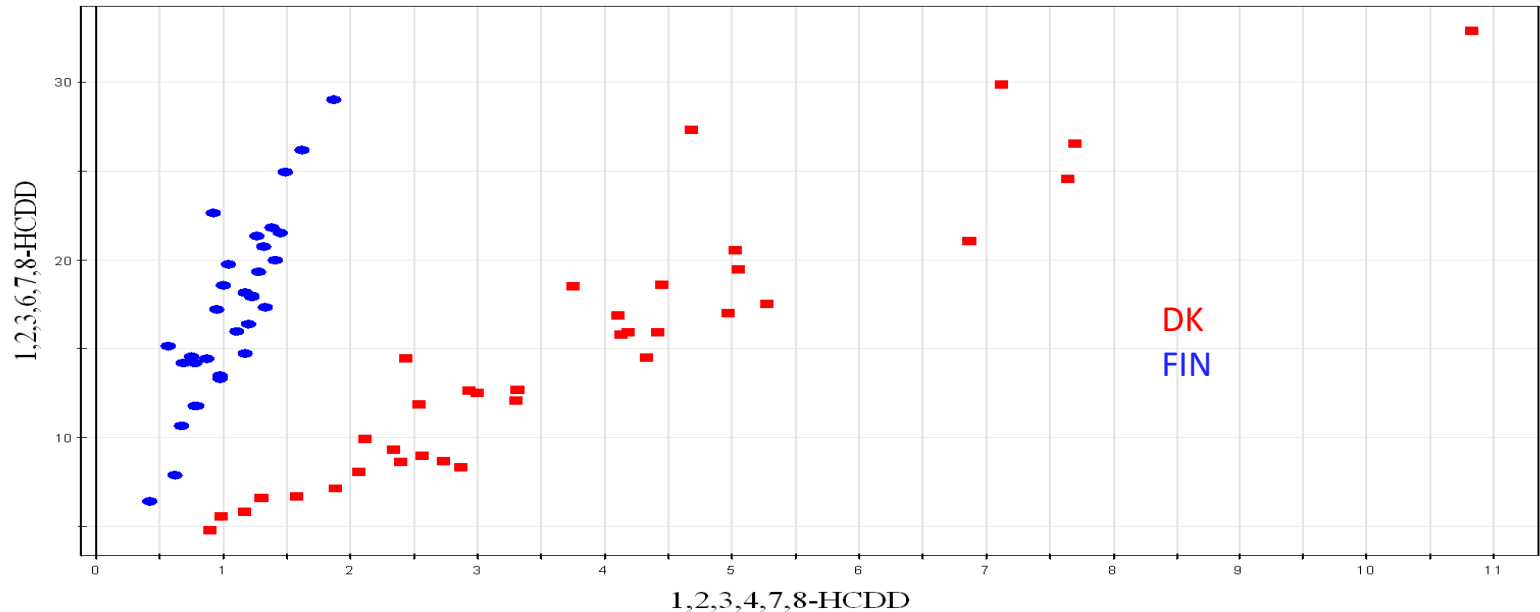
Young unselected men

Fertile men

Jørgensen et al. Hum Reprod 2001; 2002

Vi bærer en kemisk signatur fra det land vi er vokset op i: Dansk modernmælk mere forurennet end den finske

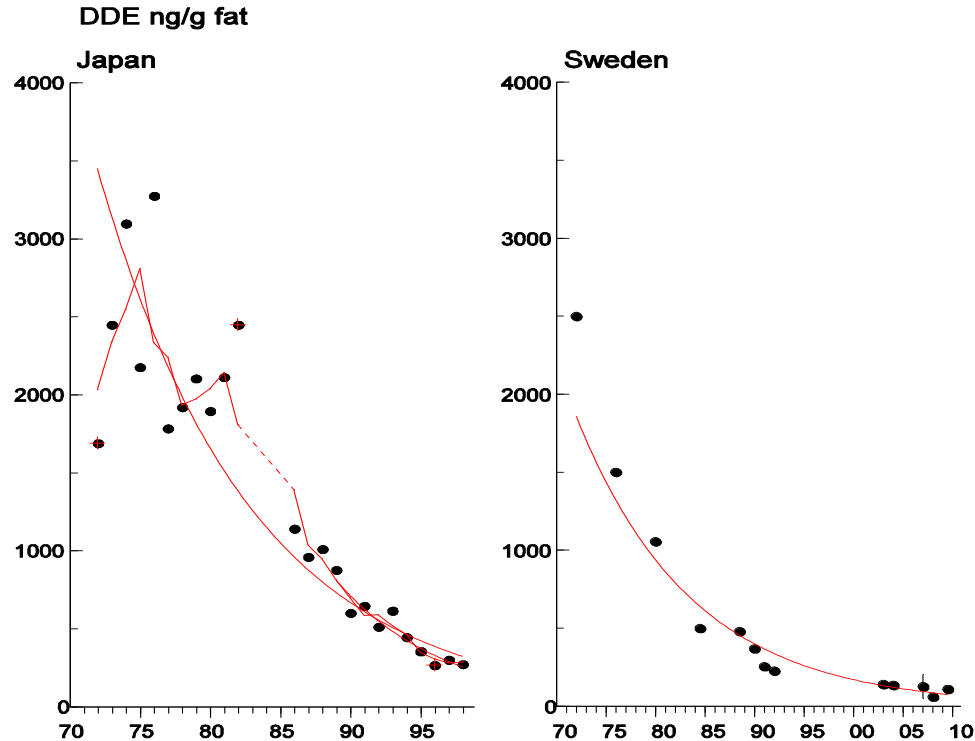
Analyser af to dioxiner, Int J Androl. 2010



Regulering hjælper

Trends, DDE (ng/g fat) Japan og Sverige

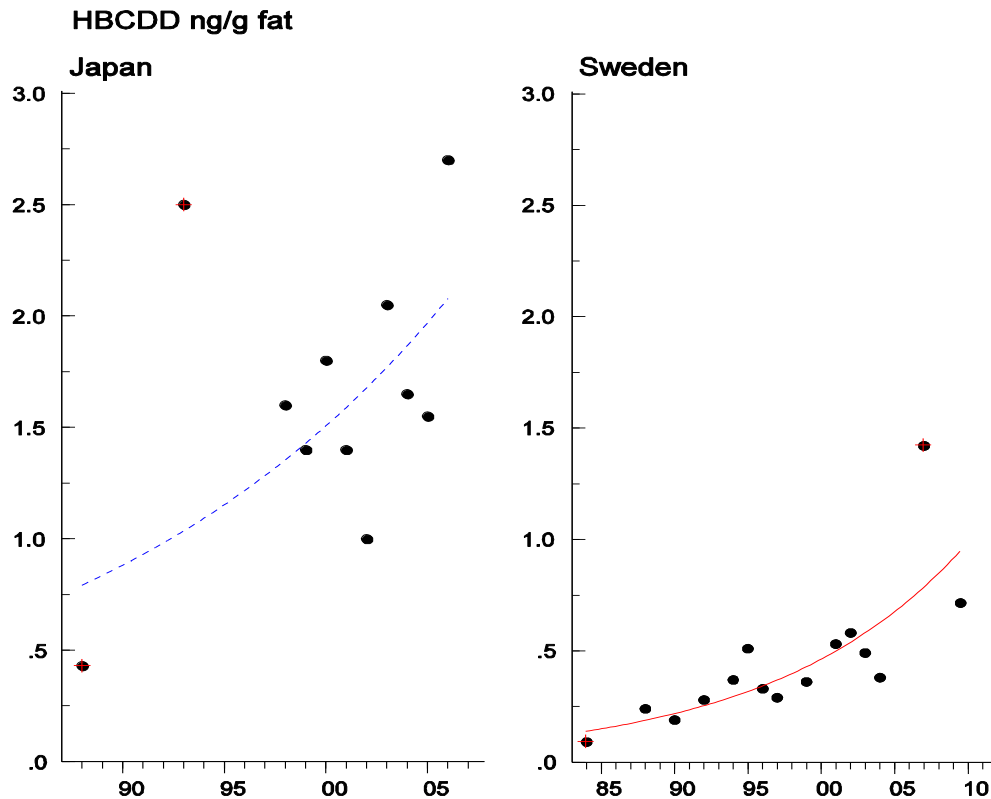
Fra: Åke Bergman, Stockholm



Manglende regulering/viden om nye kemikalier giver udslag i øget eksponering af befolkningen

Hexabromocyclododecane (HBCD, Flammehæmmer)

Fra: Åke Bergman, Stockholm



Forudsætning for regulering er forskning

En regulering, der skal virke, må baseres på meget mere viden end vi har i dag - dvs. grundig udforskning af årsager til og løsninger på de mange hormonsygdomme og fertilitetsproblemer vi ser i befolkningen i dag.

Se leder i British Medical Journal (BMJ) i dag!

*‘Our human future will only
be as healthy as our sperm.....’*

Nicholas Kristof

THE NEW YORK TIMES

March 12, 2017