



Bob Woods MBE

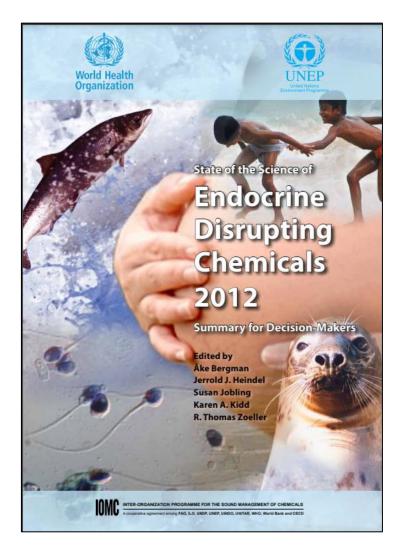
Founder and Senior Adviser, Mattioli Woods







THE EVIDENCE BEHIND ENVIRONMENTALLY INDUCED ILL-HEALTH



Developmental, reproductive, brain, immune, and other problems.



THE AIR WE BREATHE, THE WATER WE DRINK, THE HOUSE WE LIVE IN...

Study estimates that disease caused by all forms of pollution was responsible for 268 million disability-adjusted life years in 2015.

The Lancet



There appears to be no lower limit below which harmful effects do not occur.

Royal College of Physicians



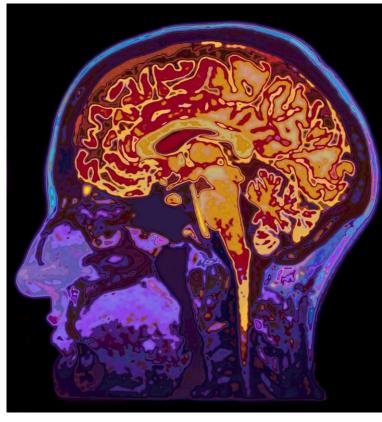


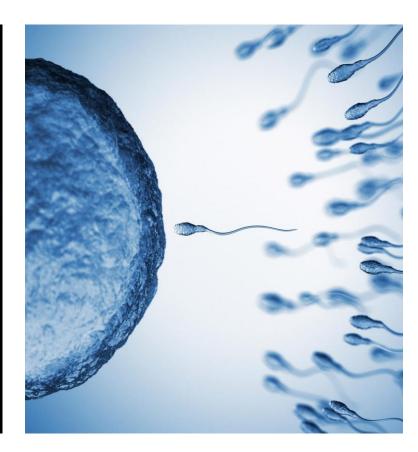
"...in 2012, unhealthy environments were responsible for 12.6 million deaths worldwide - 23% of total global mortality." The World Health Organisation



AN UNWELCOME TRIO







Cancer Brain disease Fertility



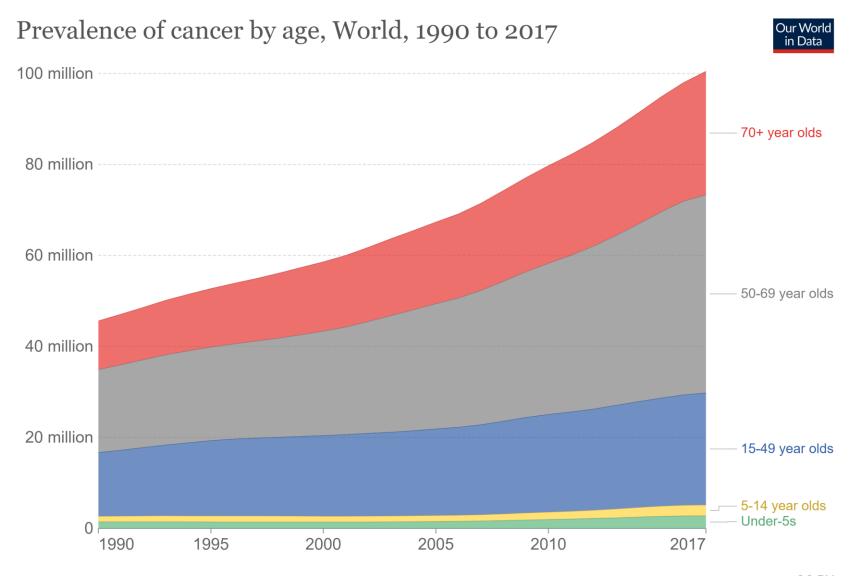


BUT THAT'S NOT ALL...



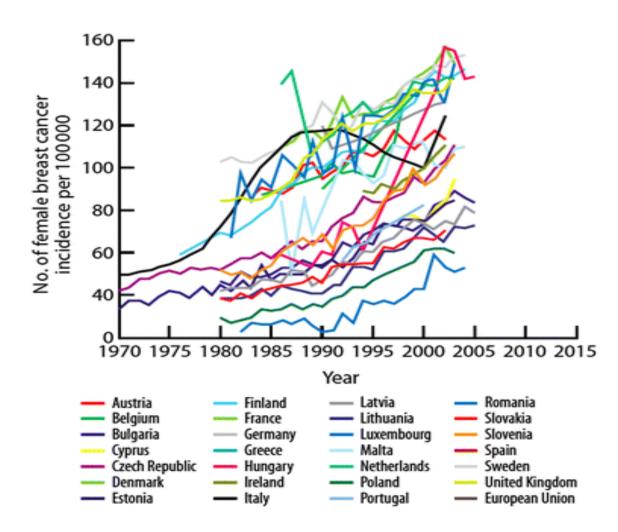






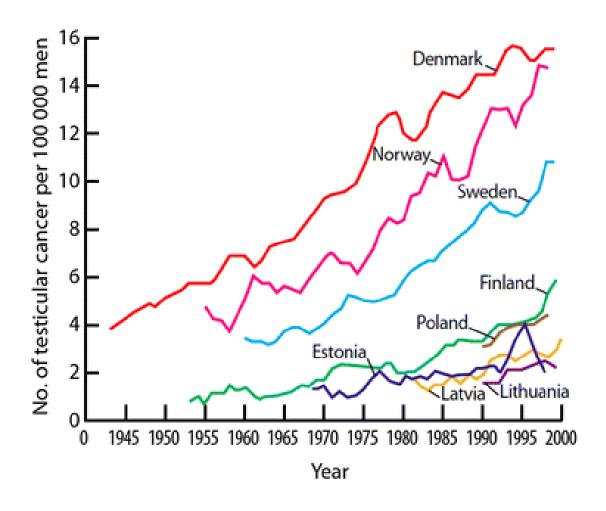


BREAST CANCER





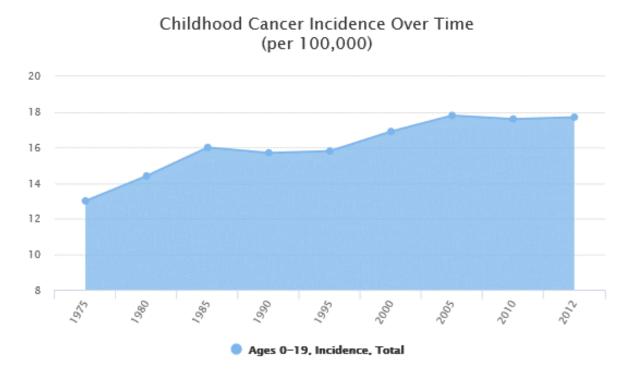
TESTICULAR CANCER





INCIDENCE RATES OVER TIME

Even as the cure rate continues to improve, the incidence of childhood cancer has been steadily increasing over the last few decades, from about 13 children per 100,000 in 1975 to over 17 children per 100,000 since 2005.

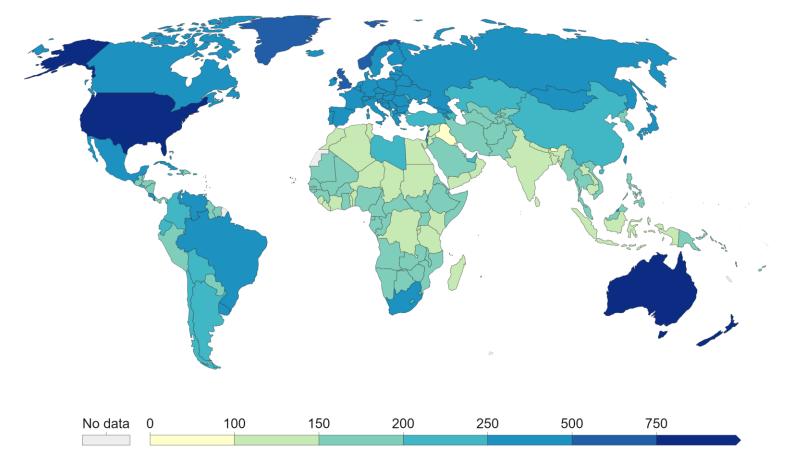


Source: Surveillance, Epidemiology, and End Results (SEER) Program (seer.cancer.gov) SEER 9 areas, 1975-2012, Age 0-19.



CANCER INCIDENCE, 2017

New cases of any type of cancer (i.e incidence) measured as the number of new cases per 100,000 people. This has been age-standardised, assuming a constant age structure of the population for comparisons between countries and over time.

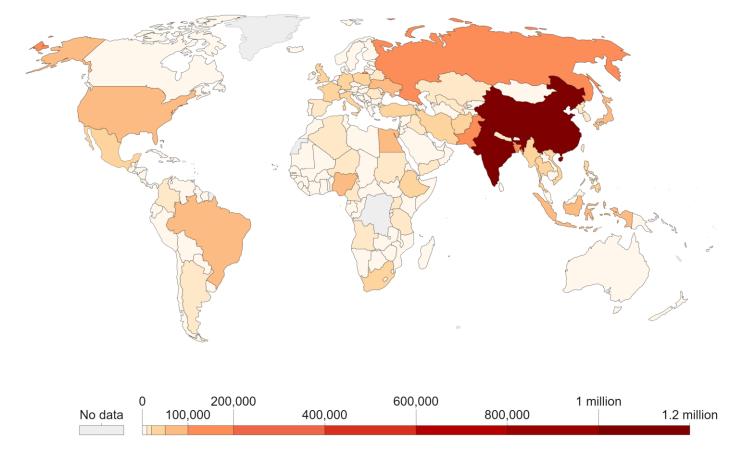




DEATHS FROM AMBIENT PARTICULATE AIR POLLUTION

Absolute number of deaths from ambient particulate air pollution, 2015.

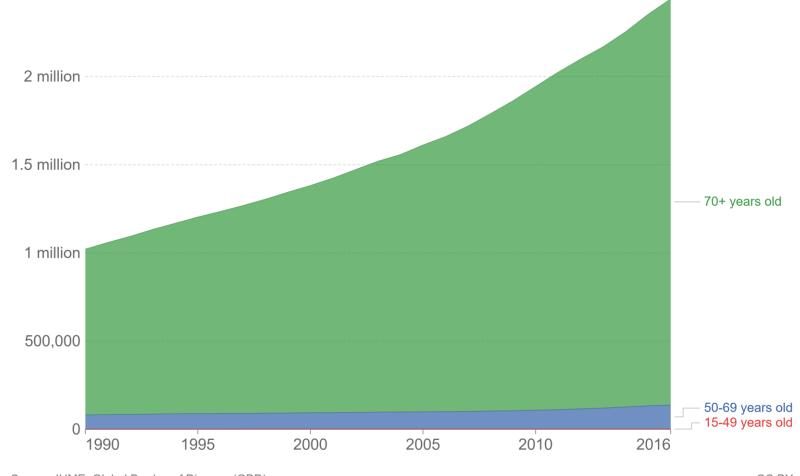
Absolute number of deaths per year attributed to ambient (outdoor) particulate matter (PM2.5) air pollution.





DEATHS FROM DEMENTIA-RELATED DISEASES

Deaths from dementia-related diseases, by age, World, 1990 to 2016. Annual number of deaths from Alzheimer's and other dementia diseases.





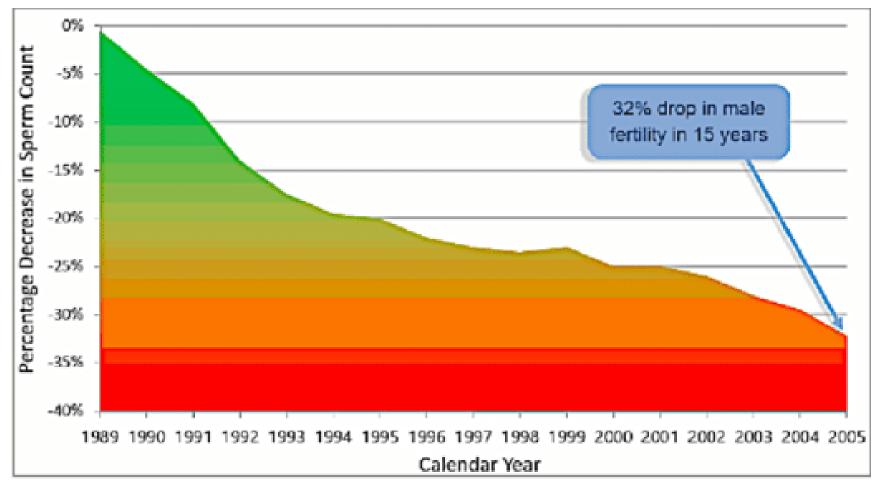
FERTILITY | A Frankenstein future?

- Bisphenol A
- Phthalates
- Pesticides
- Dioxins/Furans
- Polychlorobiphenyls(PCBs)
- Brominated flame retardants (PBDE)
- Perfluorinated compounds
- Heavy metals
- Have all been found in almost 100% of pregnant women Royal Society of Medicine



SPERM COUNT AND INFERTILITY

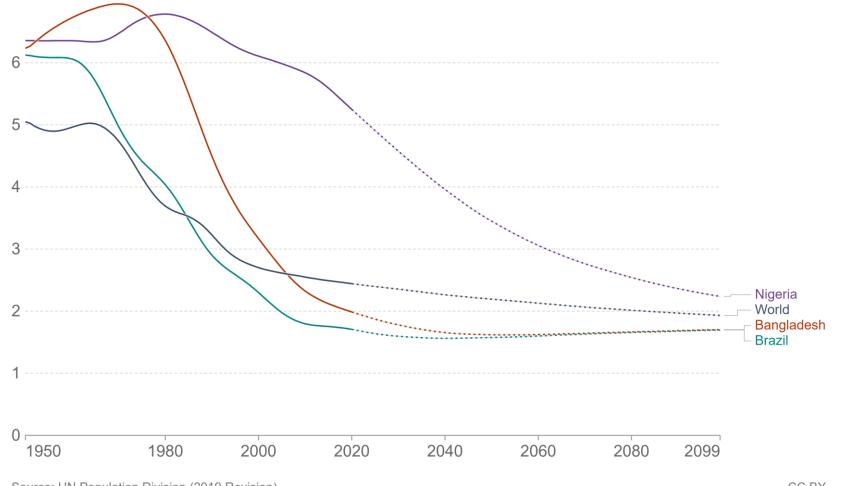
Percentage decrease in 35 year old male sperm counts 1989 – 2005.



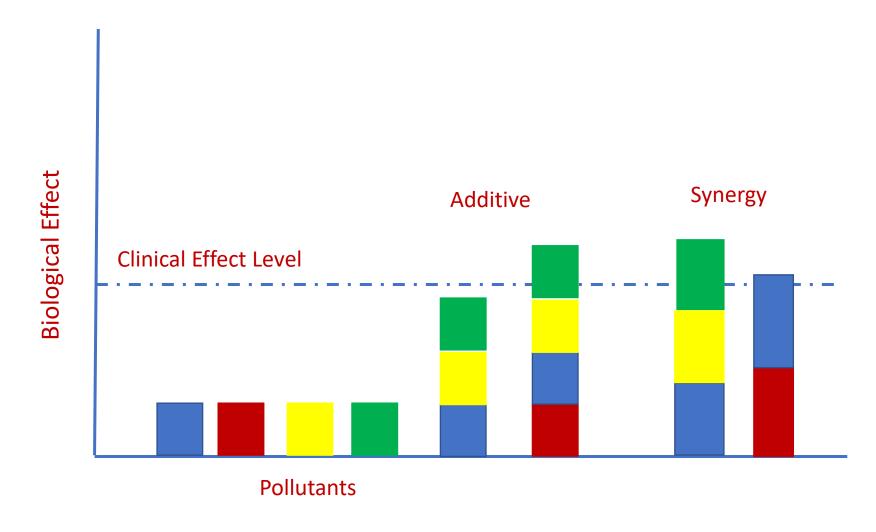


TOTAL FERTILITY RATE 1950-2099

Average number of live births per woman, if the woman were to experience the exact current age-specific fertility rates, and to survive till the end of her reproductive life.



ENVIRONMENTAL MEDICINE CUMULATIVE LOAD





CONCLUSION SO FAR

- Incidence of major disease is increasing cancer, cardiovascular, inflammation, obesity, fertility.
- Increasing evidence that environmental pollutants affect human health.
- It is suspected that your susceptibility to environmentally induced illness is personal to you.
- The effects of individual pollutants are increased when in combination.



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