

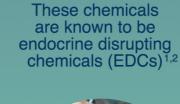
EDC-Free Healthcare

EDCs in Medical Devices



leach into the body of patients: **Phthalates**

Bisphenol A (BPA)







Exposure to EDCs is hazardous to human health and the environment 3,4,5,6

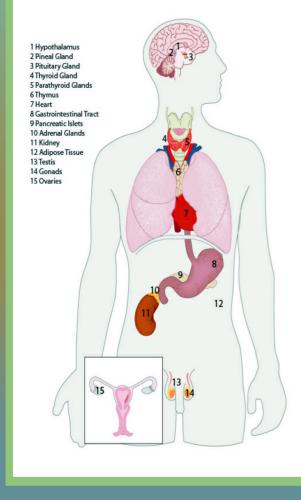
What are EDCs? And why are they Hazardous?

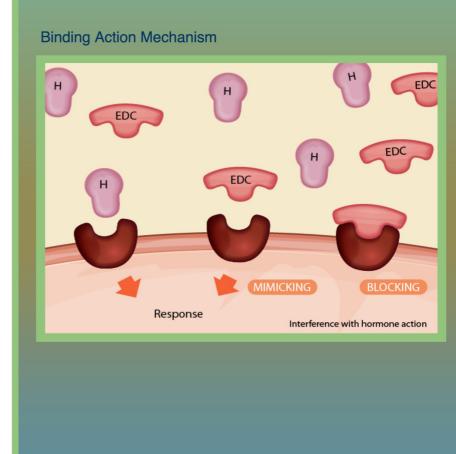
exogenous substance or mixture of substances that can interfere with any aspect of hormone action" 7 -The Endocrine Society THE ENDOCRINE SYSTEM

"An endocrine disruptor is an

transport, metabolism, binding action, or elimination of natural blood-borne hormones responsible for the normal functioning of the endocrine system 8

EDCs can interfere with the synthesis, secretion,





Vulnerable Groups: Neonates Children Chronic Patients

Foetuses

Who is at Risk?

Exposure to EDCs in early life has been associated with diseases later in life 9

Nursing & Pregnant Women





In Healthcare Facilities

MEDICAL GLOVES

Phthalates

(plasticizers)

WOOD **TREATMENT PRODUCTS**









CLEANING

PRODUCTS

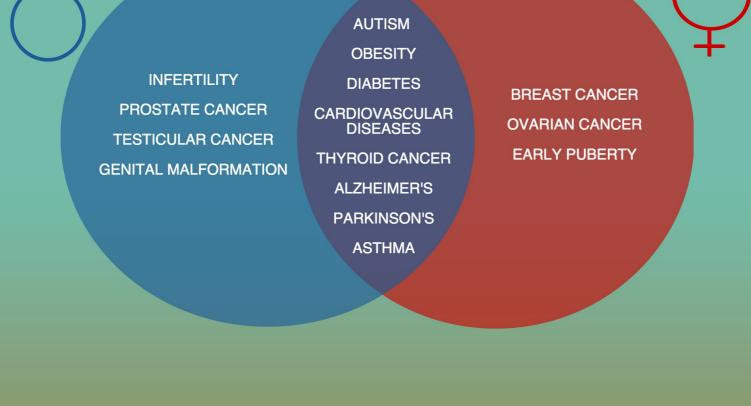
Glycol Ethers (surfactant)

Cyclosiloxanes (spreading agent)

Polybrominated Diphenyl Ethers PCDBs (flame retardants)

Exposure to EDCs?

What are the Potential Health Problems Linked with



Where are EDCs found?

EDCs are everywhere, for example:

Exposure to EDCs has been associated with an increase in the incidence of hormone-related diseases and illnesses in humans at different stages of life11, 12





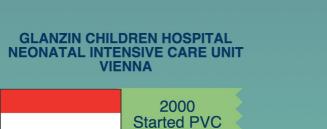
medical devices: http://safermedicaldevices.org

Towards EDC-Free Healthcare

Successful Case Studies

Safer chemical alternatives to EDCs

are available on the market 13



phase-out

Phased out PVC

WESTFRIESGASTHUIS HOSPITAL PAEDIATRICS DEPARTMENT

HOORN



KAROLINSKA UNIVERSITY HOSPITAL,

NEONATAL UNIT STOCKHOLM 2014 Completely phased out PVC

Visit the HCWH Europe database

on PVC-free and phthalates-free

HOSPITAL OF SOUTHERN JUTLAND PAEDIATRICS AND NEONATOLOGY DEPARTMENT 2005 Started PVC



phase-out

The Way Forward

The EU must protect European citizens, especially vulnerable groups, from exposure to endocrine disrupting chemicals

Now is the opportunity to phase out EDCs in the healthcare

sector by adopting strong EU Medical Device Regulation

A Selected List of the Scientific Literature:

1. Hauser and Calafat, 2005, Occupational and Environmental Medicine 62(11):806-18.

2. Rochester, 2013, Reprod Toxicol 42: 135-55.

3. Matsumoto et al, 2008, Regulatory Toxicology and Pharmacology 50(1):37-49.

4. Braun et al, 2011, Pediatrics, 128(5):873-82.

5. Oehlmann et al, 2008, Environ Res 108(2):140-9

6. Flint et al, 2012, Environ Manage 104: 19-34

7. Zoeller et al, 2012, Endocrinology.

8. Diamanti-Kandarakis et al., 2009, Endocrine Society, 50 pp.

9. Bergman et al., 2013, UNEP/WHO, 2013, 260 pp.

10. Birnbaum, 2013, Trends Endocrinol Metab 24: 321-323

11. Fischer et al., 2013, J Paeediatr Child Health 49: 413-419

12. Gore, A. C et al, 2015, Endocrine Reviews - http://press.endocrine.org/doi/10.1210/er.2015-1010

13. https://noharm-europe.org/edcs-report

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