

# Endocrine toxicology Quiz 1 Cheat Sheet

by okaystudent (okaystudent) via cheatography.com/142385/cs/30598/

## **Dirty Dozen EDCs**

BPA Lead

Dioxin Arsenic

Atrazine Mercury

Phthalates Perfluorinated chemicals

Perchlorate Organophosphate pesticides

Fire retardants Glycol Ethers

A list of endocrine disrupters: 12 hormone-altering chemicals

#### Why did endosulfan cause serious defects?

It was dumped into rivers and caused increased DNA strand breaks.

## Time periods in The Third Wave by Alvin Toffler

The Industrial Revolution (The 2nd Wave) began in the 18th century.

**KNOW it was from 1820-1840**. It began in **Britain** and within a few decades it spread

Information Technology (The 3rd Wave)

## **Environmental Impact of Industrial Revolution**

Deforestation

Water pollution including ground aquifers

loss of oxygenation

resource depletion

more CO2 in air

#### **Air Pollution**

Sulfur dioxide gets released into atmosphere

Acid rain = sulfur dioxide

## **Acid Rain**

Acid rain is Sulfur dioxide + nitric oxide

When the emissions travel long distances secondary pollutants form

Nitrogen dioxide, nitric acid, acid vapor, sulfuric acid, sulfate, nitrate

## Smog

large part is groundlevel ozone. Ozone = nitrogen oxides and hydrocarbons react with oxygen. Catalyzed by sunlight.

(TOXIC)

# **Chromium Land Pollution**

Open cast mining leaves TONS of reject minerals

Rain washes away toxic chromium

50 Year Lifespan

85% of Sukinda Valley population suffers from "pollution induced"

diseases

Skin cancers occurred in Hinkley, California

#### **Uranium Contamination in Navajo nation**

Chromium and Uranium mines not cleaned up

People not notified of Some people live less than quarter radiation mile

## Pesticide: DDT

Not used in USA but USA still exports it

Most pesticides kill more than just pests

**How does DDT affect** birds metabolize DDT to DTE. They lay soft

shell eggs

birds?

#### **Land Pollution**

# **Point Source Water Pollution**

Easy to find and control & can be Reduced and Monitored

**Factories** 

Sewage system

Power plans

Underground coal mines

oil wells

# Non-point sources

Hard to find. Cannot control

Rain and Snow move through the ground and pick up pollutants

Runoff of fertilizer from farm

Storm water drainage from lawns, parking lots, streets



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Published 25th January, 2022. Last updated 25th January, 2022. Page 1 of 1. Sponsored by Readable.com Measure your website readability! https://readable.com

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