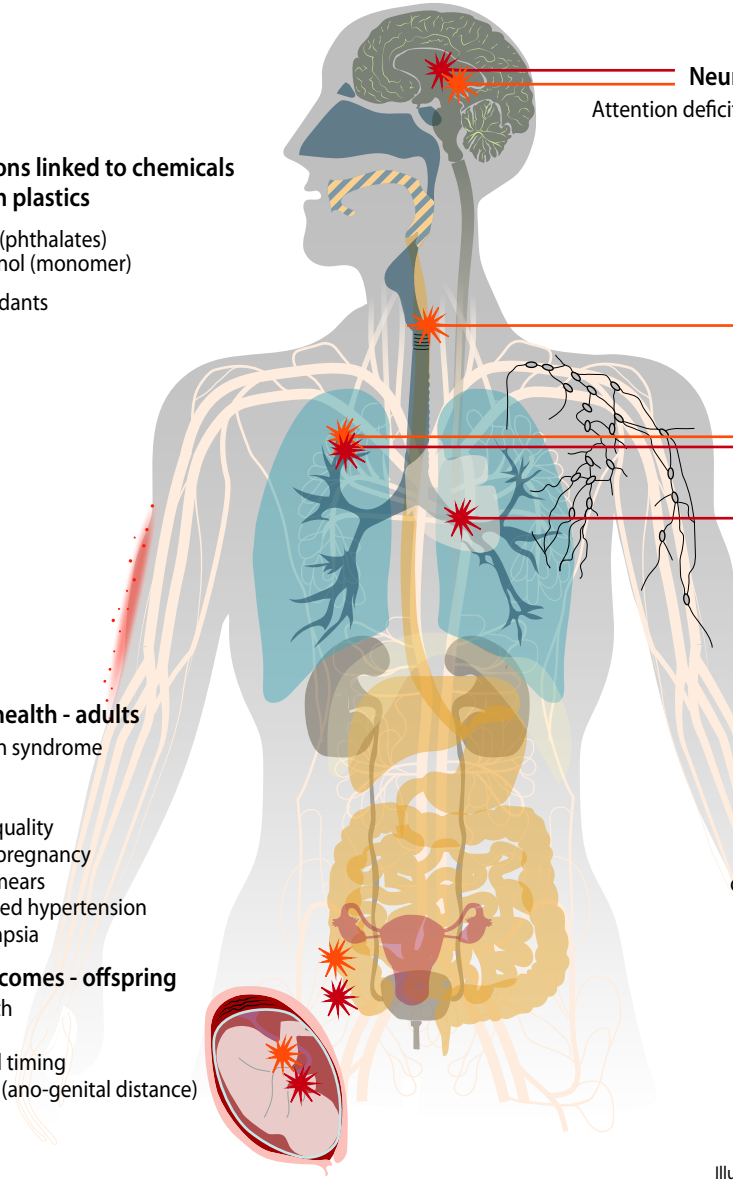
Human health impacts of exposure to plastic-associated chemicals

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Health conditions linked to chemicals associated with plastics

- Plasticizers (phthalates) and bisphenol (monomer)
- Flame retardants

Neurodevelopmental disorders
Attention deficit hyperactivity disorder (ADHD)
Autism
Neurobehavioural
IQ
Cognition

Hormonal
Thyroid disease
Thyroid cancer

Respiratory disease
Asthma

Cardiovascular disease

Metabolic disease
Type 2 diabetes
Childhood obesity
Increased waist circumference

Metabolic disease
Serum lipid levels, e.g. total cholesterol and LDL cholesterol

Decreased antibody response to vaccines

Reproductive health - adults
Polycystic ovarian syndrome
Endometriosis
Male sub-fertility
Reduced sperm quality
Delayed time to pregnancy
Abnormal PAP smears
Pregnancy-induced hypertension and/or pre-eclampsia

Pregnancy outcomes - offspring
Gestational length
Birth weight
Delayed pubertal timing
Genital structure (ano-genital distance)
Pubertal onset

Illustrated by GRID-Arendal/Studio Atlantis

United Nations Environment Programme (2021). From Pollution to Solution: A global assessment of marine litter and plastic pollution. Nairobi.