A High Price to Pay:
Burden of Disease and Cost of Endocrine Disrupting Chemicals in the European Union

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EDCs and chemical brain drain: Focus on neurodevelopment

Vulnerability is the price we pay for our complex brain.

Early development is particularly vulnerable.

Developmental damage is likely permanent.
Benefits of preventing EDC exposure

- Calculated as costs avoided
- Using the human capital method
- Direct costs due to treatment, etc.
- Indirect costs, such as *lost lifetime income*
How to calculate the value of IQ

- Projected life-time earnings
- Future earnings converted to present-day value by discounting (3% per year)
- **EU: ~€10,000 (US: ~$15,000) per IQ pt**
- Other benefits (intangible/direct) ignored
Annual costs in Europe for IQ losses (millions)

Due to mercury

- Total EU: ~9,300*
- US: ~4,000^ 

Due to EDCs (mainly OPs)

- Total EU: ~132,000#
- US: ~50,000”

* Bellanger et al., 2013
^ Grandjean et al., 2012 using $15,000/IQ pt
# Bellanger et al., 2015 + Trasande et al., 2015
“ Bellinger, 2012 using $15,000/IQ pt
solvents