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# ( Neurobehavioural effects of developmental toxicity

Philippe Grandjean, Philip J Landingan

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Commissionedense to: Dr. Philippe Grandjeses, presental and Occupational References and Episters unlessed. Electronic Technical of Problem Shoulten. all it Park Driver E-33th Bowton, MIK STORYS, MICH. promotify/hoph.horvent.ndu Neurodevelopmental disabilities, including autism, attention-deficit hyperactivity disorder, dyslexia, and other cognitive impairments, affect millions of children worldwide, and some diagnoses seem to be increasing in frequency. Industrial chemicals that injure the developing brain are among the known causes for this rise in prevalence. In 2006, we did a systematic review and identified five industrial chemicals as developmental neurotoxicants: lead, methylmercury, polychlorinated hiphenyls, arsenic, and toluene. Since 2006, epidemiological studies have documented six additional developmental neurotoxicants-manganese, fluoride, chlorpyrifos, dichlorodiphenyltrichloroethane, tetrachloroethylene, and the polybrominated diphenyl ethers. We postulate that even more neurotoxicants remain undiscovered. To control the pandemic of developmental neurotoxicity, we propose a global prevention strategy. Untested chemicals should not be presumed to be safe to brain development, and chemicals in existing use and all new chemicals must therefore be tested for developmental neurotoxicity. To coordinate these efforts and to accelerate translation of science into prevention, we propose the urgent formation of a new international clearinghouse.

#### Introduction

Disorders of neurobehavioural development affect 10-15% of all births,' and prevalence rates of autism spectrum disorder and attention-deficit hyperactivity disorder seem. to be increasing worldwide.' Subclinical decrements in brain function are even more common than these neurobehavioural developmental disorders. All these disabilities can have severe consequences'—they diminish quality of life, reduce academic achievement, and disturb behaviour, with profound consequences for the welfare and productivity of entire societies."

The root causes of the present global pundemic of neurodevelopmental disorders are only understood. Although genetic factors have a role, they cannot explain recent increases in reported prevalence. and none of the genes discovered so far seem to be responsible for more than a small proportion of cases." Overall, genetic factors seem to account for no more than perhaps 30-40% of all cases of neurodevelopmental disorders. Thus, non-genetic, environmental exposures are involved in causation, in some cases probably by interacting with genetically inherited predispositions.

Strong evidence exists that industrial chemicals widely disseminated in the environment are important contributors to what we have called the global, silent pundemic of neurodevelopmental toxicity.\*\* developing human brain is uniquely vulnerable to toxic chemical exposures, and major windows of developmental vulnerability occur in utero and during infancy and early childhood." During these sensitive life stages, chemicals can cause permanent brain injury at low levels of exposure that would have little or no adverse effect in an adult.

In 2006, we did a systematic review of the published clinical and epidemiological studies into the neurotoxicity of industrial chemicals, with a focus on developmental neurotoxicity." We identified five industrial chemicals that could be reliably classified as developmental neurotoxicants: lead, methylmercury, arsenic, polychlorinated biphenyls, and toluene. We also noted 201 chemicals that had been reported to cause injury

to the nervous system in adults, mostly in connection with occupational exposures, poisoning incidents, or suicide attempts. Additionally, more than 1000 chemicals have been reported to be neurotoxic in animals in laboratory studies.

We noted that recognition of the risks of industrial chemicals to brain development has historically needed decades of research and scrutiny, as shown in the cases of lead and methylmercury." In most cases, discovery began with clinical diagnosis of poisoning in workers and episodes of high-dose exposure. More sophisticated epidemiological studies typically began only much later. Results from such studies documented developmental neurotoxicity at much lower exposure levels than had previously been thought to be safe. Thus, recognition of widespread subclinical toxicity often did not occur until decades after the initial evidence of neurotoxicity. A recurring theme was that early warnings of subclinical neurotoxicity were often ignored or even dismissed." David P Rall, former Director of the US National Institute of Environmental Health Sciences, once noted that "if thalidomide had caused a ten-point loss of intelligence quotient (IQ) instead of obvious birth defects of the limbs, it would probably still be on the market"." Many industrial chemicals marketed at present probably cause IQ deficits of far fewer than ten points and have therefore eluded detection so far, but their combined effects could have enormous consequences.

In our 2006 review,' we expressed concern that additional developmental neurotoxicants might lurk undiscovered among the 201 chemicals then known to be neurotoxic to adult human beings and among the many thousands of pesticides, solvents, and other industrial chemicals in widespread use that had never been tested for neurodevelopmental toxicity. Since our previous review, new data have emerged about the vulnerability of the developing brain and the neurotoxicity of industrial chemicals. Particularly important new evidence derives from prospective epidemiological birth cohort studies.

In this Review, we consider recent information about the developmental neurotoxicity of industrial chemicals

# **Neurobehavioural Effects Of Developmental Toxicity**

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# **Table of Contents Neurobehavioural Effects Of Developmental Toxicity**

- 1. Understanding the eBook Neurobehavioural Effects Of Developmental Toxicity
  - The Rise of Digital Reading Neurobehavioural Effects Of Developmental Toxicity
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Neurobehavioural Effects Of Developmental Toxicity
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Neurobehavioural Effects Of Developmental Toxicity
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Neurobehavioural Effects Of Developmental Toxicity
  - Personalized Recommendations
  - Neurobehavioural Effects Of Developmental Toxicity User Reviews and Ratings
  - Neurobehavioural Effects Of Developmental Toxicity and Bestseller Lists

- 5. Accessing Neurobehavioural Effects Of Developmental Toxicity Free and Paid eBooks
  - Neurobehavioural Effects Of Developmental Toxicity Public Domain eBooks
  - Neurobehavioural Effects Of Developmental Toxicity eBook Subscription Services
  - Neurobehavioural Effects Of Developmental Toxicity Budget-Friendly Options
- 6. Navigating Neurobehavioural Effects Of Developmental Toxicity eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Neurobehavioural Effects Of Developmental Toxicity Compatibility with Devices
  - Neurobehavioural Effects Of Developmental Toxicity Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Neurobehavioural Effects Of Developmental Toxicity
  - Highlighting and Note-Taking Neurobehavioural Effects Of Developmental Toxicity
  - Interactive Elements Neurobehavioural Effects Of Developmental Toxicity
- 8. Staying Engaged with Neurobehavioural Effects Of Developmental Toxicity
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Neurobehavioural Effects Of Developmental Toxicity
- 9. Balancing eBooks and Physical Books Neurobehavioural Effects Of Developmental Toxicity
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Neurobehavioural Effects Of Developmental Toxicity
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Neurobehavioural Effects Of Developmental Toxicity
  - Setting Reading Goals Neurobehavioural Effects Of Developmental Toxicity
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Neurobehavioural Effects Of Developmental Toxicity
  - Fact-Checking eBook Content of Neurobehavioural Effects Of Developmental Toxicity
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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