Preventing Toxic Threats to Child Development: The Learning and Developmental Disabilities Initiative

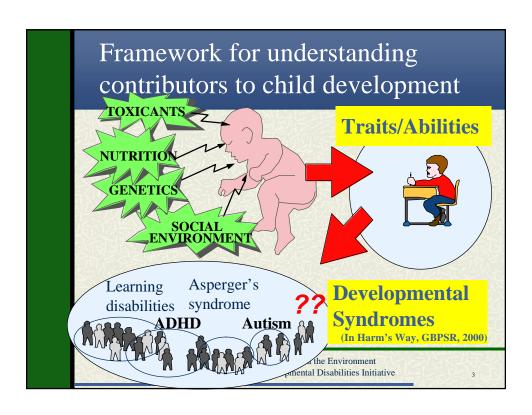


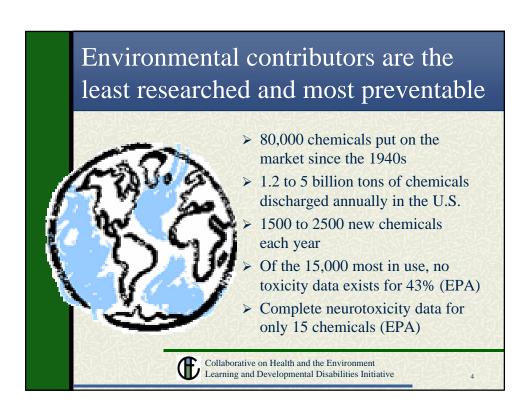


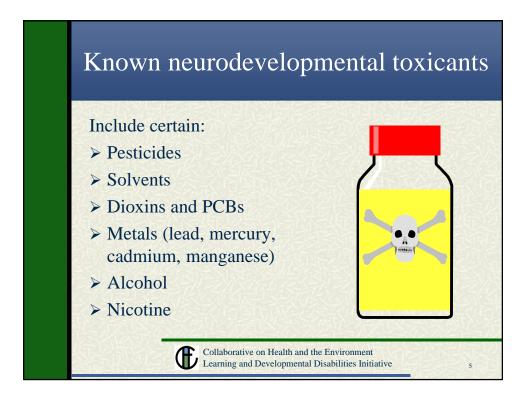
Concerning Statistics

- > **LEARNING AND DEVELOPMENTAL DISABILITIES COMBINED** est. 12 million children in U.S. suffer from one or more learning, developmental or behavioral disorder (*J. of Pediatrics*, 1994)
- > **MENTAL RETARDATION** affects 1.4 million children under 18 (*AAMR*, 2003)
- > **AUTISM SPECTRUM DISORDER** affects 450,000 children under the age of 18 and appears to be 10x more prevalent than in the 1980s (*JAMA*, 2003)







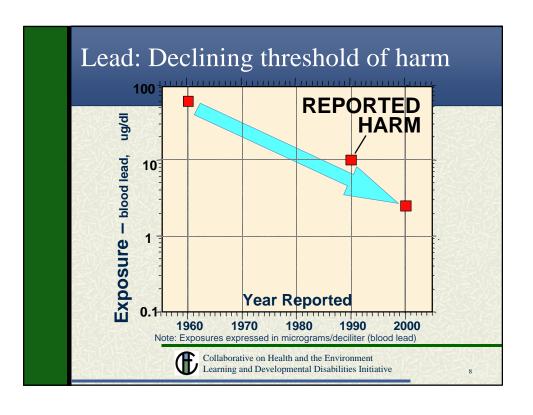


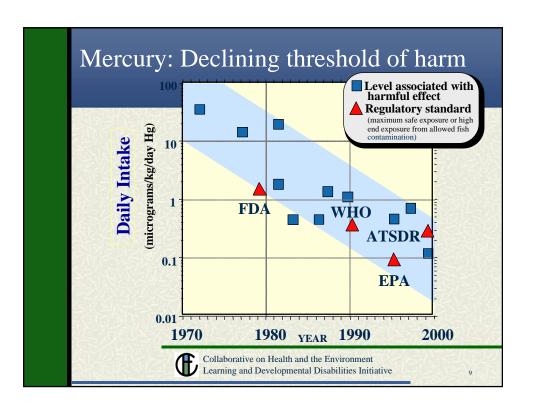


...linked to later health problems

- > Fetal mercury exposure may impair learning, memory and attention
- Solvents may adversely impact motor and cognitive skills
- Dioxin and PCBs may affect brain development and function
- > Chronic exposure to some pesticides may impede normal learning and development









Economic costs of pediatric environmental diseases

Estimated Costs of Pediatric Disease of Environmental Origin, United States, 1997 (billions)

2//2027	Best Estimate	Low Estimate	High Estimate
Lead Poisoning	\$43.4	\$43.4	\$43.4
Asthma	\$2.0	\$0.7	\$2.3
Cancer	\$0.3	\$0.2	\$0.7
Neurobehavioral Disorders	\$9.2	\$4.6	\$18.4
TOTAL	\$54.9	\$48.8	\$64.8

(From "Environmental Pollutants and Disease in American Children," Landrigan, Schechter, et.al., 2002)



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11

Learning and Developmental Disabilities Initiative (LDDI)

- > Educating state and national learning and developmental disabilities (LDD) groups.
- > Translating emerging science into information and fact sheets to be used at workshops and on websites for lay audiences.
- > Holding meetings nationally and regionally to build collaborative partnerships between LDD groups, researchers, health professionals and environmental health advocates.
- > Cultivating opportunities for interested groups to educate policymakers on specific bills that would eliminate neurotoxicants.



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Engaging learning and developmental disabilities groups

Since 2003, LDDI has grown to include over 350 organizational and individual members such as:

- ➤ Learning Disabilities Association of America
- American Association on Mental Retardation
- > The Arc of the United States
- ➤ The Autism Society of America
- SafeMinds
- National Association for the Dually Diagnosed
- Communities Against Violence

And many others...



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13

LDDI: Specific steps forward

- > National and Regional Meetings
- > Key national LDD organizations with new enviro health initiatives: LDA, AAIDD, ASA, NADD...
- ► LDDI Resolution and (soon) Consensus Statement
- ➤ Regular conference calls with leading researchers
- > CDC biomonitoring report analyses on neurotoxicants
- > "Practice Prevention" columns
- State-based initiatives in NY, MN and MI
- > Policy opportunities (mercury, lindane, PBDEs, developmental neurotoxicity testing, Kids Safe Chemical Act, etc.)



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How you can get involved

- > Join CHE www.healthandenvironment.org
- > Join the LDDI Working Group Elise Miller, MEd, Executive Director Institute for Children's Environmental Health

Ph: 360-331-7904

emiller@iceh.org www.iceh.org/LDDI.html





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Yaqui Indian Study

- > Effects of pesticide exposure on kids' development
- > Controlled study of Yaquis using pesticides and those that do not
- > Exposed kids showed diminished stamina, memory impairment and distortions in drawings
 - Elizabeth Guillette, PhD, University of Arizona



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