

Appendix 4

Four recent studies showing that adding fluoride to drinking water unnecessarily endangers children's brains.

Dr Paul Connett, PhD, Director of FAN, said on 27th March 2020,

"As of 2020, there have been 72 fluoride-IQ studies, of which 64 found a lower IQ among children with higher fluoride exposure. Many of the earlier studies were in places with elevated natural fluoride levels. There is now very strong evidence that fluoride damages both the fetal and infant brain at the levels used in artificially fluoridated areas".

"You only have to read four studies to realize that deliberately adding fluoride to drinking water unnecessarily endangers children's brains. Three of these four studies were funded by the National Institutes of Health."*

The first study came in Sept 2017, from Mexico City and was ground-breaking. This study found a strong association between the amount of fluoride women were exposed to during pregnancy and lowered IQ in their offspring.

The second study came in 2019 when a study published in *JAMA Paediatrics* essentially replicated the Mexico City finding in Canadian communities.

The third study came in 2019 and found a staggering 284% increase in the prevalence of ADHD among children in fluoridated communities in Canada, when compared to non-fluoridated ones.

The fourth study came in 2020, when it was reported that children who were bottle-fed in fluoridated communities in Canada lost up to 9 IQ points compared to those in non-fluoridated communities.

Dr Paul Connett says:

"While we wait to prove our case in court, I urge everyone, including scientists, doctors, journalists and public health officials, to read these four papers and not simply take the word of fluoridation promoters on the evidence. The risk to our children's developing brains is so great it is unconscionable to delay warnings to pregnant women and parents."

References from 2006 on Fluoridation's Neurotoxicity – 11th March, 2020

(<http://fluoridealert.org/wp-content/uploads/FAN-Neurotoxicity-One-pager-3-10-20.-pdf.pdf>)

1. National Research Council, 'Fluoride in Drinking Water', 2006, Page 222. (<https://www.nap.edu/catalog/11571/fluoride-in-drinking-water-a-scientific-review-of-epas-standards>)
2. Choi et al, Developmental Fluoride Neurotoxicity: A Systematic Review and Meta-Analysis, *Environmental Health Perspectives*, July 20, 2012. (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3491930/>)
3. Bashash et al, 'Prenatal Fluoride Exposure and Cognitive Outcomes in Children at 4 and 6-12 Years of Age in Mexico', *Environmental Health Perspectives*, Sept. 19, 2017. (<https://ehp.niehs.nih.gov/ehp655/>)
4. Till et al, 'Community Water Fluoridation and Urinary Fluoride Concentrations in a National Sample of Pregnant Women in Canada', *Environmental Health Perspectives*, Oct.10, 2018. (<https://ehp.niehs.nih.gov/doi/10.1289/EHP3546>)
5. Dana Dovey, "Children's IQ Could be Lowered by Mothers Drinking Tap Water While Pregnant", *Newsweek*, Sept. 19, 2017. (<https://www.newsweek.com/childrens-iq-could-be-lowered-drinking-tap-water-while-pregnant-667660>)
6. Malin et al, 'Fluoride Exposure and Thyroid Function Among Adults Living in Canada': Effect Modification by Iodine Status, *Environment International*, Dec. 2018. (<https://www.ncbi.nlm.nih.gov/pubmed/?term=till+malin+fluoride+thyroid>)
7. Brian Bienkowski, 'We Add It to Drinking Water for Our Teeth – But is Fluoride Hurting Us?' *Environmental Health News*, Oct. 10, 2018. (<https://www.ehn.org/we-add-it-to-drinking-water-for-our-teeth-but-is-fluoride-hurting-us-2611193177.html>)
8. Green et al, 'Association Between Maternal Fluoride Exposure During Pregnancy and IQ Scores in Offspring in Canada', *Journal of the American Medical Association Paediatrics*, Aug. 19, 2019. (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6704756/>)
9. Ben Guarino, 'Study Raises Questions About Fluoride and Children's IQ', *Washington Post*, Aug. 20, 2019. (<https://www.washingtonpost.com/science/2019/08/19/study-raises-questions-about-fluoride-childrens-iq/>)

10. Riddell et al, 'Association of Water Fluoride and Urinary Fluoride Concentrations with Attention Deficit Hyperactivity Disorder in Canadian Youth', *Environment International*, Dec. 2019.
(<https://www.sciencedirect.com/science/article/pii/S0160412019315971?via%3Dihub>)
11. Bashash et al, 'Prenatal Fluoride Exposure and Attention Deficit Hyperactivity Disorder (ADHD) Symptoms in Children at 6-12 Years of Age in Mexico City', *Environment International*, Dec. 2018.
(<https://www.sciencedirect.com/science/article/pii/S0160412018311814?via%3Dihub>)
12. Malin et al, 'Exposure to Fluoridated Water and Attention Deficit Hyperactivity Disorder Prevalence Among Children and Adolescents in the United States: An Ecological Association', *Environmental Health*, Feb. 27, 2015. (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4389999/>)
13. Till et al, 'Fluoride Exposure From Infant Formula and Child IQ in a Canadian Birth Cohort', *Environment International*, Jan. 2020 (first issued online in 2019).
(<https://www.sciencedirect.com/science/article/pii/S0160412019326145?via%3Dihub>)
14. National Toxicology Program, 'Draft NTP Monograph on the Systematic Review of the Fluoride Exposure and Neurodevelopmental and Cognitive Health Effects', Sept. 6, 2019.
(http://fluoridealert.org/wp-content/uploads/2019.ntp_draft-fluoride-systematic-review.online-Oct-22.pdf)