

LEAD Action News vol. 18 no. 3, March 2018 ISSN 1324-6012 Newsletter of The LEAD (Lead Education and Abatement Design) Group Inc. PO Box 161 Summer Hill NSW 2130 Australia

> Ph: (02) 9716 0014 Contact Us: <u>www.leadsafeworld.com/about-us/contact-us/</u> Web: <u>www.lead.org.au/</u> & <u>www.leadsafeworld.com</u>

Editorial & Graphics team: Emily Choong, Elizabeth O'Brien & Fergus Thomson Web developers: Helen Huiming Guo & Shivani Patel

Article 10

Is lead harming my unborn baby? Lead Week of Action Event 2017, Northern Ireland, United Kingdom

LEAD Action News Volume 18 Number 3

Celebrating 5 Years of the WHO Lead Week of Action





International Lead Poisoning Prevention Week of Action Event held at Ulster University on the 8th November, 2017 at 1800-1930 local time

Event Report Written by Dr. Priyanka Chaurasia, Ulster University

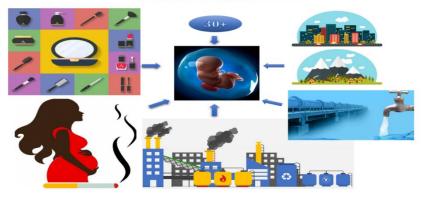
Creating awareness about lead toxicity in public is important. The event's aim was to generate social awareness of lead toxication and emphasise the severe impacts it can have, especially for pregnant woman. Lead toxication has become a rising concern due to its effect on the environment and human health. Sources of lead include ammunition, ceramics, solders, cosmetics, hair dye, airplanes, farm equipment, shielding for x-ray machines, leaded gasoline, batteries, and water carried out in lead pipes. During the event, a possible new app was explored that could predict the toxicity levels of lead on a developing foetus. This would be highly beneficial as biological monitoring techniques are costly and time consuming.

Numerous researches have recognised the importance of childhood lead poisoning and the need of intervention to prevent it. The neuro-behavioural toxicity produced by lead places huge economic burdens on families and societies all together. The concept of urban slums in urban cities is a common issue. Lead-based poisoning is more common in poorer communities in developing countries. Poorer sections of the society within an urban setup are more vulnerable to lead poisoning. Most of the lead comes from contaminated dust and drinking water. Water acquires lead as it travels through the widely used lead pipes to



homes and businesses. In addition to this, corrosive water can increase the amount of lead that is getting into the drinking water. Smoking is another common problem. Lead exposure through cigarettes has a negative impact on pregnant women health and influence the development and growth of the foetus. Furthermore, lead based industries polluting air is another major cause for lead poisoning. Creating awareness about the issue is the first step towards handling lead toxicity.

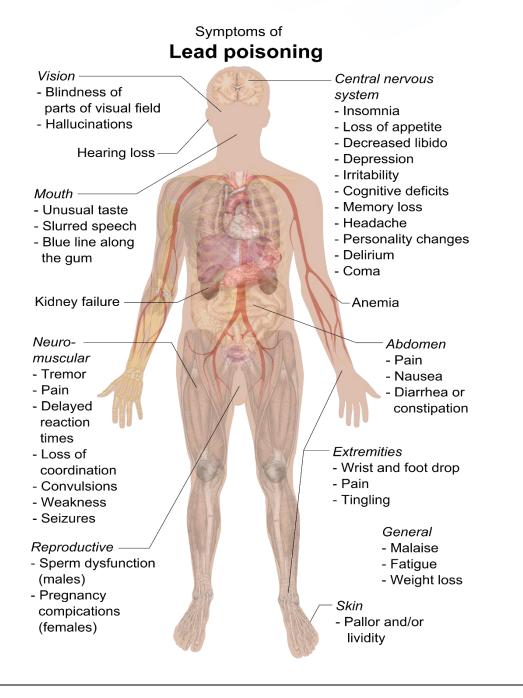
Is lead killing my baby?



Introduction

- Lead, an environmental toxicant, accounts for 0.6% of the global burden of disease
- Can permeate through the foetus blood-brain barrier
- Causing negative impact on foetal growth and the developing brain
- Literacy and awareness related to its impact is low
- Pregnant women are at a greater risk of suffering from neuro-toxic effects of lead

High blood lead levels are especially harmful to children and pregnant women, and can cause "learning disabilities, behavioural problems and mental retardation," the World Health Organization says.



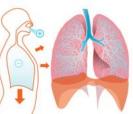


Primary

Ingested (hand-to-mouth)

Secondary

- ➢ Inhaled
- Through skin



- $\checkmark~$ Can be circulated throughout your body
- $\checkmark~$ Some is excreted while some remains in organs and body tissues
- ✓ If exposure continues, the amount stored in your body will increase if you are absorbing more lead than your body is excreting

What is lead?

- Soft blue-grey metal
- Found in the natural environment

History behind



The words "plumber" and "plumbing" come from <u>plumbum</u> (the Latin word for lead) because the ancient Romans used lead for their water pipes.



