

July 23, 2014

Special Interest Articles:

- **Get the Lead Out – 5K**
- **Anthrax Investigation turns up ‘distressing’ Issues at CDC**

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Get the Lead Out – 5K

Childhood Lead poisoning can affect the entire body and cause irreparable physical and mental damage. It is a significant health concern as Lucas County ranks third in the state for lead poisoning cases according to the Ohio Department of Health. The annual “Get the Lead Out 5k” race/walk promotes awareness about the dangers of childhood lead poisoning in our community.

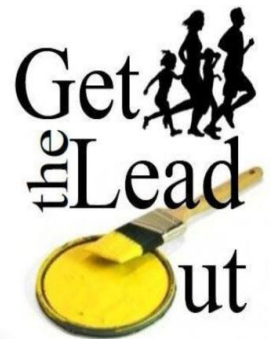
The Toledo-Lucas County Health Department Lead Poisoning Prevention Program has been working hard to reduce the number of children in Lucas County with elevated blood lead levels for over a decade through increased screening and surveillance, case management and outreach education. Statistics show that the percentage of children with elevated blood lead levels in Lucas County have considerably dropped, but the problem has not been fully eradicated and more work still needs to be done.

On Friday, August 1, 2014 the Toledo-Lucas County Health Department will be hosting its fourth annual “Get the Lead Out” 5K race/walk at Ottawa Park. This year the race will be held in the evening. There will also be a kid’s race so they can join in on the fun as well.

Runners will receive a Dave’s Running tech t-shirt, goodie bag, and coupons. Masters and Overall winners will receive Second Sole gift certificates.

For more info and to sign up, go to:

www.gettheleadout5k.info



Virus Detected in Baby “Cured” of HIV

A Mississippi baby believed to have been functionally cured of HIV in March 2013 now has detectable levels of the virus in her blood. The child, now four years old, was born to an HIV-positive mother, who was unaware of her status until just before giving birth. Doctors frantically gave the child high doses of three antiretroviral just hours after being born in case she was infected. For 18 months, she was continually treated with antiretroviral, until her mother stopped administering the drugs for an unknown reason. Despite this doctors announced that the child had been functionally cured. However, earlier this month, about two years after the child had been declared “cured,” HIV antibodies and low T-cell counts were detected in the child. Doctors have opted to begin antiretroviral therapy for the child again, and she will have to continue it for the duration of her lifetime.

To learn more, visit

<http://www.cnn.com/2014/07/10/health/baby-not-cured-hiv/>.



Anthrax investigation turns up 'distressing' issues at CDC



A recent investigation at the Centers for Disease Control and Prevention has concluded that lab workers may have been unintentionally exposed to anthrax. The incident was discovered on June 13th, 2014, when one lab had apparently failed to inactivate samples of *Bacillus anthracis* (anthrax) properly. The lab did not have a standing sterilization technique or standard operating procedure to ensure that the process went smoothly. CDC Director Tom Frieden voiced his opinion on the matter: "The scientists failed to follow a scientifically derived and reviewed protocol that would have assured the anthrax was deactivated... It should have happened, and it didn't." Because of the possible exposure, the CDC has developed a team of specialized leaders to work on lab safety issues. To avoid similar incidents, they have also created a rapid-response command structure. **To learn more about this story, log on to**

http://www.cnn.com/2014/07/11/health/anthrax-investigationconcludes/index.html?hpt=he_c2

Do you know what drowning looks like?

One may believe that an individual who is drowning would be flailing their arms, screaming, and making a commotion in the water. As it turns out, that vision is a misconception of what drowning actually looks like. Especially in the summer months, it is crucial to be well-versed in water safety. Dr. Francesco A. Pia, Ph.D., a water safety expert, and Mario Vittone, a writer on maritime safety, described the true human Instinctive Drowning Response with these major points:



- In the vast majority of cases, drowning people are physiologically incapable of calling out for help because the human body is wired to give priority to the primary respiratory function, breathing, and not to speech, which is a secondary overlaid function.
- Drowning people's mouths are not above the water long enough to enable them to exhale, draw breath and call out, they have barely time to exhale and inhale quickly before their mouths go back under the water.
- When we are drowning, our natural instinct is to press our arms outwards and downwards onto the surface of the water so we can leverage our bodies upwards to catch our breath.
- Waving arms about to draw attention is a voluntary movement: we have to stop drowning first before we can physically perform voluntary movements like waving for help, grabbing rescue equipment or moving toward a rescuer.

For more information on this topic, please visit

<http://www.medicalnewstoday.com/articles/196538.php>

This machine makes drinking water from thin air

According to the World Health Organization, 780 million people lack access to clean water. However, Water-GEN, a company based in Israel, may have developed a solution to at least partially decrease that number. Water-GEN has created a way to make safe, clean, and portable drinking water from the atmosphere. "The clean air enters our GENius heat exchanger system where it is dehumidified, the water is removed from the air and collected in a collection tank inside the unit," says co-CEO Arye Kohavi. "From there the water is passed through an extensive water filtration system which cleans it from possible chemical and microbiological contaminations," he explains. "The clean purified water is stored in an internal water tank which is kept continuously preserved to keep it at high quality over time." According to Kohavi, the "GENius" heat exchanger generates 65-210 gallons of water daily, depending on weather conditions. It costs \$0.02 worth of electricity to make one liter of water.



For more information on Water-GEN, visit

http://www.cnn.com/2014/04/24/tech/innovation/machine-makes-drinking-water-from-air/index.html?iid=article_sidebar

**Questions, comments,
article suggestions,
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We Want Your Input

Holding a training and want others to know about it? Have something you want to share – information from a conference, a presentation you will be conducting, or an interesting article? Send us the details and we will be happy to include it in the next issue of the newsletter. Your feedback is also welcomed.



Don't Forget to Like Us on Facebook at www.facebook.com/tlchd

A screenshot of the Toledo-Lucas County Health Department's Facebook profile. The page header shows the department name and location (Toledo, Ohio). The main content area features a post from the CDC about a graphic novel titled 'Preparedness 101: Zombie Pandemic'. The post includes a photo of the book cover and text describing the novel's plot and a checklist for disaster preparedness. The post has 64 likes and 4 comments. The left sidebar shows navigation options like Wall, Info, and Photos, along with a list of liked pages including the CDC, Toledo-Lucas County Advanced Practice Center, and Ohio Department of Health.



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