From: rosemarie.bowler@gmail.com on behalf of Rosemarie Bowler
To: Bollweg, George
Subject: Re: FW: HSPH SRP Webinar 9/9/13 on Metal Mixtures and Child Neurodevelopment
Date: Friday, September 06, 2013 12:16:47 PM

Hi George,
can I invite Donna - she will be very interested I would think. Let me know please, thanks,
Rosemarie

Rosemarie M. Bowler, Ph.D., M.P.H.,
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On Fri, Sep 6, 2013 at 8:59 AM, Bollweg, George <bollweg.george@epa.gov> wrote:

> FYI if interested/available
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>
> **From:** Braverman, Carole
> **Sent:** Friday, September 06, 2013 10:01 AM
> **To:** Suero, Mary Ann; Mangino, Mario; Bollweg, George
> **Subject:** FW: HSPH SRP Webinar 9/9/13 on Metal Mixtures and Child Neurodevelopment
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>
> **From:** Mathur, Bharat
> **Sent:** Friday, September 06, 2013 8:24 AM
> **To:** Braverman, Carole
> **Subject:** FW: HSPH SRP Webinar 9/9/13 on Metal Mixtures and Child Neurodevelopment
>
> fyi
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>
> **From:** No title defined [mailto:SRP-ALL@LIST.NIH.GOV] **On Behalf Of** Adams, Jeffrey R.
> **Sent:** Friday, September 06, 2013 6:24 AM

To: SRP-ALL@LIST.NIH.GOV
Subject: HSPH SRP Webinar 9/9/13 on Metal Mixtures and Child Neurodevelopment

The Harvard SRP invites you to attend the webinar presentation: "Metal Mixtures Exposure and Child Neurodevelopment - Evidence from Rural Bangladesh" by Linda Valeri, PhD, Research Fellow in the Department of Biostatistics at the Harvard School of Public Health, on Monday, September 9 at 12:30pm EST. Details on how to join the webinar are below, please be sure to check whether you have the appropriate media players installed.

Presentation Abstract: Arsenic (As), manganese (Mn) and lead (Pb) exposure are common in Bangladesh. These metals can cross the placenta and are neurotoxic. Limited epidemiologic data currently exists on interactive effects of metal mixtures on child neurocognitive outcomes.

We examined whether exposure to mixtures of As, Pb and Mn are associated with neurocognitive outcomes and whether there is evidence of interaction among metals.

Umbilical cord blood samples were collected at delivery from 399 infants in Bangladesh. Whole blood As, Pb, and Mn were measured using ICP-MS. Bayley scale of infant development Third Edition (BSID-III) scores were measured at approximately 24 months of age. Associations of cognitive and motor composite scores with Mn, Pb and As concentrations on the logarithmic scale, or categorized as above or below median levels, were modeled allowing for interactions between metals.

Mean (SD) cord blood levels for As, Pb, and Mn were 1.016 (0.99) µg/dl, 6.181 (5.25) µg/dl, and 14.970 (15.76) µg/dl, respectively. In adjusted multivariable regression models, Mn was positively associated with 24-month mental composite score at levels of Pb and As below the median (beta=0.27, p-val=0.1), while at As levels above the median, Mn was inversely associated with 24-month mental composite score (beta =-0.35, p-val=0.05). Levels of Pb and As above the median were inversely associated with 24-month mental (beta =-0.17, p-val=0.2). Further, using splines to explore non-linear effects, we found evidence of Pb-As interaction. Pb toxicity was increased among children with level of As exposure above the median and level of Mn exposure below the median, compared to children with low As and Mn exposure (p-val=0.04).

Bangladeshi children have high exposure levels to As, Pb and Mn. We found evidence of interactions among these metal exposures, suggesting that joint exposure is synergistic. The interactions were non-linear and would have been missed using main effects regression models.

Hope you can join us!

WEBINAR INFORMATION

Topic: Harvard Superfund Presentation: Metal Mixtures Exposure and Child Neurodevelopment - Evidence from Rural Bangladesh
Date: Monday, September 9, 2013
Time: 12:30 pm, Eastern

Meeting Number: 713 157 532
Meeting Password: sfHSPH9913

To join the online meeting (Now from mobile devices!)

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2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: sfHSPH9913
4. Click "Join".

To hear the audio portion

Please dial 1-866-890-3820, participant passcode 84087132 followed by #

For assistance

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The playback of UCF (Universal Communications Format) rich media files requires appropriate players. To view this type of rich media files in the meeting, please check whether you have the players installed on your computer by going to https://harvardsph.webex.com/harvardsph/systemdiagnosis.php.

Please send your questions and comments to jadams@hsph.harvard.edu

Thank you,

Jeffrey R. Adams

Senior Research Manager

Metals Epidemiology Research Group

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