

Maternal Infant-Child Health and Environment Research Symposium:

“How Local Research can Influence Policy and Practice”

Thursday, February 26th, 2009, 08:00-17:00 hrs
Maple Leaf Room, Lister Hall, University of Alberta

Speaker Bio-sketch:



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Alvaro R. Osornio-Vargas, M.D., PhD. Medical Investigator, Division of Basic Research, Instituto Nacional de Cancerología. August 1990 to date.

RESEARCH INTEREST: Mechanisms of air pollutants induced disease, specifically by Particulate Matter.

PUBLICATIONS: 76 papers in peer reviewed journals (over 1050 citations), 9 Book Chapters, 12 Abstracts in extend, 70 short abstracts, 6 Children’s Books on Health and 12 publications for the general public.

Dr. Osornio has served as Member of the Expert Advisory Board on Children’s Health and the Environment in North America, Commission for Environmental Cooperation of North America, 2003 – 2004. Dr. Osornio also teaches Health Sciences to high school students.

Publications from past 5 years:

Peer Review Papers

2006

Buka I, Rogers WT, **Osornio-Vargas AR**, Hoffman H, Pearce M, Li YY. An Urban Survey of Pediatric Environmental Health Concerns: Perceptions of Parents/Guardians and Health Care Professionals. Paediatrics and Child Health, 11:235-238, 2006.

De Vizcaya-Ruiz A, Gutiérrez-Castillo ME, Uribe-Hernández M, Cebrián ME, Mugica-Alvarez V, Sepúlveda J, Rosas I, Salinas E, Garcia-Cuéllar C, Martínez F, Alfaro-Moreno E, Torres-Flores V, **Osornio-Vargas A**, Sioutas C, Fine PM, Singh M, Geller MD, Kuhn T, Eiguren-Fernandez A, Miguel A, Schiestl R, Reliene R, Froines J. Characterization and *in vitro* biological effects of concentrated particulate matter from Mexico City. Atmospheric Environmen; 40:S583-S592, 2006.

Buka I, Koranteng S, Osornio-Vargas AR. The Effects of Air Pollution on the Health of Children (Ms05-035). Paediatr Child Health 11:513-516, 2006.

Bagate K, Meiring JJ, Gerlofs-Nijland ME, Cassee FR, Wiegand H, **Osornio-Vargas AR**, Borm PJA. Ambient particulate matter affects cardiac recovery in a Langendorff ischaemia model. Inhalation Toxicology; 18 (9):633-643, 2006 (1 cita).

2007

Alfaro-Moreno E, López-Marure R, Montiel-Dávalos A, Symonds P **Osornio-Vargas AR**, Rosas I, Murria JC. E-selectin expression in human endothelial cells exposed to PM₁₀: The role of endotoxin and insoluble fraction. *Environ Res* 103:221-228, 2007. (5 citas).

Rosas Pérez I, Serrano J, Alfaro-Moreno E, Baumgardner D, García-Cuellar C, Miranda Martín del Campo J, Raga Benimelis G, Castillejos M, Drucker Colín R, **Osornio Vargas AR**: Relations between PM₁₀ Composition and Cell Toxicity: A Multivariate and Graphical Approach. *Chemosphere*; 67:1218:1228, 2007 (1 cita).

Buka I, Koranteng S, Osornio-Vargas AR: Trends in childhood cancer incidence: Review of environmental linkages. *Pediatr Clin North Am*; 54(1):177-203, February 2007.

Koranteng S, **Osornio-Vargas AR**, Buka I. Ambient air pollution and children's health: A systematic review of Canadian epidemiological studies. *Paediatr Child Health*, 12(3):225-233, March 2007.

Alfaro-Moreno E, Ponce-de-León-Rosales S, **Osornio-Vargas AR**, García-Cuellar C, Martínez L, Rosas I. Potential toxic effects associated to metals and endotoxin present in PM₁₀. An ancillary study using multivariate analysis. *Inhalation Toxicology*, 19(Suppl. 1):49 – 53, 2007.

Ruiz-Godoy L, Rizo Rios P, Sánchez Cervantes F, **Osornio Vargas AR**, García Cuellar C, Meneses García A. Mortality due to lung cancer in Mexico. *Lung Cancer*, 54:184-190, 2007.

2008

Spady D, Ries N, Ladd BD, Buka I, Osornio-Vargas AR, Soskolne CL: Governance Instruments That Protect Children's Environmental Health: Is Enough Being Done? *Environmental Law Review E*, 10:200-217, 2008.

Sánchez-Pérez Y, Chirino YI, Osornio-Vargas A, Morales-Bárceñas R, Gutiérrez-Ruiz C, Vázquez-López I, García-Cuellar CM. DNA damage response pathways in lung cells after exposure to urban PM₁₀. Accepted with revisions, *Cancer Letters*, December 2008.

Book Chapters

2008

Alfaro Moreno, E; García Cuellar, C; De Vizcaya Ruiz, A; Rojas-Bracho, L; Osornio-Vargas, AR. Cellular Mechanisms behind Particulate Matter Air Pollution Related Health Effects. "Air Pollution: Health & Environmental Impacts", by B.R. Gurjar, L.T. Molina, C.S.P. Ojha (Eds.); Taylor & Francis, 2009. Accepted.

Electronic Publications

2004

A. Bernard, M. Botsivali, C. de Burbure, L. van Bree, F.C. Cassee, E. Dybing, K. Donaldson, P. Farmer, L. Gephart, R. Hagemann, W. Kreyling, S. Kyrtopoulos, M. Lag, **A. Osornio-Vargas**, M. Refsnes, T. Sandstrom, R. Salonen, R. Schins, P. Schwarze, V. Stone, A. I. Totlandsdal Air pollution and the risks to human health – a toxicological perspective. AIRNET toxicology workgroup, 2004. <http://airnet.iras.uu.nl/> (15 de noviembre 2004).

2007

Osornio-Vargas, A. Air Pollution and Children's Health; EM Online, November 2007, 6-9; available at <http://secure.awma.org/em/pdfs/2007/11/vargas.pdf>

2008

Buka, I, Koranteng, S., Osornio-Vargas, A. Asthma and air pollution. Traffic emissions are increasingly recognized as a trigger. Parkhurst Exchange.

http://www.parkhurstexchange.com/archives/2008/no_08/aug08-p41.html

Abstracts in Extent

2004

Miranda J, Barrera VA, Espinosa AA, Galindo OS, Meinguer J, Alfaro-Moreno E, García Cuéllar C and **Osornio-Vargas AR**. PIXE Analysis of Atmospheric Aerosol Related to Their Cytotoxic and Genotoxic Effects. Proceedings of the 10th International Conference in Particle Induced X-ray Emission and its Analytical Applications, Potoroz, Slovenia, June 4-8, 2004.

<http://pixe2004.ijs.si/FinalPapersCheckup/502.pdf>.

2006

Vázquez-López MI, García-Cuellar CM, Alfaro-Moreno E, Sánchez-Perez Y, Segura Y, **Osornio-Vargas AR**. Daño a ADN desnudo por partículas contaminantes del aire. Memorias V Congreso Internacional y XI Congreso Nacional de Ciencias Ambientales.. Sánchez-Salinas E y Ortiz-Hernández MA (Coordinadores). Primera Edición, junio del 2006. ISBN 968-878-265-3.

2007

Buka I, Koranteng S, **Osornio-Vargas AR**. Review of ambient air pollution and the health of children in Canada. In Cebo E, ed. *Vulnerability of the Fetus and Infant to Ambient Pollutants and Reduced Food Intake in Pregnancy*. Krakow: Jagiellonian University Press 2007; 73-77

Buka I, Hoffman H, **Osornio-Vargas AR**, Pearce M, Rogers T, Yee Li Y. An urban survey of paediatric environmental health concerns: Perceptions of parents, guardians and health care professionals. In Cebo E, ed. *Vulnerability of the Fetus and Infant to Ambient Pollutants and Reduced Food Intake in Pregnancy*. Krakow: Jagiellonian University Press 2007; 221-224.

2008

Alcántara E, Ortíz E, Moina L, De Vizcaya A, Osornio A y Mugica v. Composición de metales en partículas atmosféricas en la campaña MCMA-2006. Memoria Técnica. La Sustentabilidad en las Grandes Ciudades. XVI Congreso Nacional de Ingeniería Sanitaria y Ciencias Ambientales. April, 2008.