CENTRO DE INVESTIGACIÓN EN SALUD POBLACIONAL (CISP).

LIM EN ACCIÓN: SALUD AMBIENTAL

Agosto del 2009

Imagen: http://www.nodo50.org/

El fruto de la investigación.

El propósito de este documento es presentar en forma de recopilación bibliográfica, citas a trabajos publicados por los investigadores del Centro de Investigación en Salud Poblacional (CISP) del INSP, que han sido referenciadas a través de la publicación de otros autores de nivel nacional e internacional, y al mismo tiempo el de difundir el material científico bibliográfico obtenido a través de revisiones sistemáticas realizadas en fuentes de información. El objetivo primordial de este trabajo es dar conocer el interés temático que los investigadores externos tienen con respecto a los trabajos de investigación llevados a cabo en este Centro y al mismo tiempo el de retroalimentar el aporte documental para las diferentes líneas de investigación. Como primer envío de apoyo a la labor científica llevada a cabo en el CISP, le corresponde a la línea de **Salud Ambiental** en ser presentada mediante esta recopilación y análisis citográfico de la misma, esperando que pueda ser de utilidad para la labor desempeñada.

Vale la pena mencionar que esta es la presentación de algunos artículos citados durante los últimos 10 meses y no la totalidad de la citas de nuestros Investigadores. Nuestra fuente principal para la ubicación de los trabajos de investigación de los autores del CISP fue el SIID.

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Análisis Citográfico: LIM-SALUD AMBIENTAL-CISP

Se realizó una revisión bibliográfica de 10 meses del periodo comprendido entre septiembre del 2008 a junio (y parte de julio) del 2009, la cual se llevó a cabo por medios mas accesibles y de consulta libre y no de la manera convencional que sería a través del Science Citation Index. El resultado fue la obtención de **230** artículos completos que citan 286 trabajos de los investigadores del CISP.

CITAS

1. **A comparative study of air quality index based on factor analysis and US-EPA methods for an urban environment. Bishoi B. et al. Aer Air Qual Res 2009;9(1):1-17.**

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2. **A Framework for Widespread Replication of a Highly Spatially Resolved Childhood Lead Exposure Risk Model. Kim D. et al. Environ Health Perspect 2008 December,116(12):1735-9.**

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3. **A panel study in congestive heart failure to estimate the short-term effects from personal factors and environmental conditions on oxygen saturation and pulse rate. Goldberg MS. et al. Occup Environ Med 2008;65:659-66**

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7. **An ecological analysis of sociodemographic factors associated with the incidence of salmonellosis, shigellosis, and E. coli O157:H7 infections in US counties. Chang M. et al. Epidemiol Infect 2009;137:810-20.**

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8. **Absence of trends in relative risk estimates for the association between Black Smoke and daily mortality over a 34 years period in The Netherlands. Fisher P. et al. Atmosph Environ 2009;43:481-5**

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TEMÁTICA DE LAS REFERENCIAS CITADAS

http://www.biofound.org/contaminacion-ciudad-mexico.jpg

La ciudad de México es el lugar ideal para el estudio de la Contaminación Ambiental y los contaminantes que la generan debido al tamaño de la población y a la susceptibilidad de la misma. Los factores de riesgo considerados en las investigaciones son: La toxicidad de los contaminantes; las altas concentraciones de los mismos, los peligros y las consecuencias a la salud humana, el tipo y nivel de exposición y las exacerbaciones de las enfermedades respiratorias ya existentes.

Específicamente:

- El interés por el plomo, ozono, CO, CO2 y manganeso entre otros, así como las partículas finas PM10 y PM 2.5 y sus efectos en la salud humana sobre todo en las enfermedades respiratorias como el asma en niños y los efectos cardiovasculares son los más consultados.

- La asociación del plomo o el manganeso con algunas condiciones neurológicas e intelectuales; los niveles de plomo en sangre durante el embarazo; así como la exposición i*n utero* al DDE (principal metabolito del plaguicida DDT) y el neurodesarrolo de los niños son otros temas referenciados con mucha frecuencia.

- Otros temas citados son: la contaminación en los hogares a través del humo del tabaco; la asociación de la contaminación con el estrés oxidativo; la respuesta de la función pulmonar a la dieta con antioxidantes; los efectos del cambio climático y de la contaminación del agua asociadas a las enfermedades diarreícas y las transmitidas por vector, como el dengue; asi como la exposición a pesticidas y sus repercusiones en la salud.

- La contaminación en interiores es otro tema buscado por los investigadores externos, los contaminantes de interiores más estudiados son el monóxido de carbono, dióxido de nitrógeno, ozono y dióxido de carbono, generados por los combustibles fósiles y de biomasa o energía resultante de la quema de madera, leña, residuos agrícolas y por las emisiones dejadas por el trafico de las calles más transitadas.

SOBRE LAS REVISTA CIENTÍFICAS

Parte importante es dar a conocer las revistas científicas que contribuyeron mas con el material bibliográfico aportado en este breve análisis principalmente en los rubros que aparecen en las siguientes 2 tablas.

REVISTAS EN LAS CUALES PUBLICAN LOS AUTORES QUE CITARON A LOS INVESTIGADORES DEL CISP

REVISTA	*	Nivel SIID	JCR 2008
Environmental Health Perspectives**	**21**	IV	**V**
Environmental Research**	**11**	III	**IV**
American Journal of Respiratory and Critical Care Medicine**	**10**	IV	**V**
Journal of Toxicology and Environmental Health Part A, B	**7**	III	-
Journal of Allergy and Clinical Immunology**	**6**	IV	**V**
Neurotoxicoloy	**5**	III	**-**
Occupational and Environmental Medicine**	**5**	III	**IV**
Atmospheric Environment	**4**	III	**-**
International Journal of Hygiene and Environmental Health	**4**	III	-
Toxicol Appl Pharmacol**	**4**	III	**IV**
Allergy**	**3**	IV	**V**
Current Opinion in Allergy & Clinical Immunology**	**3**	III	**IV**
Epidemiology	**3**	IV	**-**
Journal of Occupational and Environmental Medicine	**3**	III	-
Pediatrics	**3**	IV	-

* Número de veces que aparece la revista con algún autor que cita uno o más trabajos de los investigadores del CISP.
** Según el Factor de impacto por año del Journal Citation Reports (JCR 2008), estas revistas aumentaron su nivel de acuerdo al criterio de la "Clasificación Cualitativa de Revistas Científicas Periodicas".
Nota: Los renglones que aparecen con fondo azul corresponden a las revistas que aparecen en ambas tablas.

REVISTAS EN LAS CUALES SE PUBLICARON LOS ARTÍCULOS CITADOS DEL CISP

REVISTA	*	Nivel SIID 2002	JCR 2008
Environmental Health Perspectives**	**79**	IV	**V**
American Journal of Epidemiology	**22**	IV	**-**
Epidemiology	**18**	IV	**-**
American Journal of Respiratory and Critical Care Medicine**	**17**	IV	**V**
European Respiratory Journal**	**16**	III	**IV**
Journal of Allergy & Clinical Immunology**	**16**	IV	**V**
Journal of Toxicology and Environmental Health Part A, B	**12**	III	**-**
Thorax**	**11**	IV	**V**
Environmental Research**	**9**	III	**IV**
Pediatrics	**6**	IV	-
Science of The Total Environment	**6**	III	-
J Expo Anal Environ Epidemiol (Actualmente Journal of Exposure Science and Environmental Epidemiology)	**5**	III	-
Neurotoxicology and Teratology	**4**	III	-
Salud Publica de México	**4**	III	-
Journal of the Air Waste & Management Association	**3**	III	-
Journal of Occupational and Environmental Medicine	**3**	III	-
Tropical Medicine & International Health	**3**	III	-

*Número de veces que aparece la revista con algún trabajo de los investigadores del CISP.
** Según el Factor de impacto por año del Journal Citation Reports (JCR 2008), estas revistas aumentaron su nivel de acuerdo al criterio de la "Clasificación cualitativa de revistas científicas periodicas".

Por mucho, la revista **"Environmental Health Perspectives"** del National Institute of Environmental Health Sciences es la más representativa en ambas tablas. Lo cual se debe sin duda a los 4 factores siguientes:

- Su alta calidad e impácto. Según el Science Citation Report del 2008, su Factor de Impácto anual es de 6.123, lo cual, de acuerdo al criterio de la "Clasificación Cualitativa de las Revistas Científicas" le otorga el nivel mas alto (**V**).
- Su alta representatividad en este tema. Su especialidad en Ciencias Ambientales la convierte en un vehiculo efectivo para la diseminación de información Cientifica Internacional en los campos de Salud Pública, Ambiental y Ocupacional.
- Edición. 12 Números al año con artículos de investigación, noticias ambientales, reseñas de libros, sección de salud ambiental en niños, calendario de eventos, etc.
- Accesibilidad. Es gratuita a través de su página de internet.

Actualización.

Como parte de la diseminación selectiva de información científica, este apartado contiene un listado con referencias recientes relacionadas a temas de Salud Ambiental, la mayoría de ellos enfocadas primordialmente a los diferentes subtemas de investigación dentro del CISP, obtenidas por medio de una revisión temática sistematizada.

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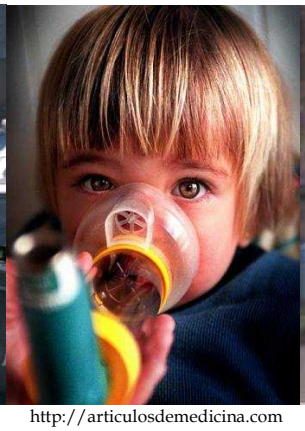

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¿CAMBIO CLIMÁTICO O JINETE DEL APOCALIPSIS?

Hablar de "Cambio Climático" es hablar de sobrecalentamiento global, gases de efecto invernadero, huracanes, inundaciones, enfermedades re-emergentes, deshielo de los polos, especies en extinción, etc, y siempre se llega a la misma conclusión: todo lo que se siembra, se cosecha, en este caso la siembra fue y sigue siendo un consumo desmesurado de nuestros recursos naturales como lo son la tala de los bosques y el desperdicio del agua y otros recursos vitales, así como un uso indiscriminado de los combustibles fósiles y de biomasa para todo tipo de uso en las actividades humanas lo que llevó a la acumulación de gases dentro de nuestro ambiente como el dióxido de carbono, metano, oxido nitroso, etc. mismos que se producen naturalmente, y que en cantidades moderadas son fundamentales para nuestro planeta ya que impiden que parte del calor solar regrese y nuestro planeta se convierta en un planeta frío y sin vida, pero al generarse estos gases de manera excesiva el resultado es otro y es lo que actualmente conocemos como efecto invernadero, lo que conduce a un sobrecalentamiento global sin precedentes de nuestro planeta, y que trae consigo un aumento en el número y tamaño de desastres naturales las cuales mencionamos al principio de esta breve reflexión, la cosecha de lo que se sembró; todas esta situaciones las tienen que tomar en cuenta principalmente aquellos que se encuentran involucrados con la investigación en Salud Pública y Ambiental, como lo son los planificadores y tomadores de decisiones enfocados a la seguridad nacional y mundial.

En 1988 la Organización Metereológica Mundial y el Programa de las Naciones Unidas para el Medio Ambiente crearon el Grupo Intergubernamental de Expertos Sobre el Cambio Climático con el objetivo primordial de recolectar toda la información científica necesaria sobre este tema, algunos de los hallazgos reportados en el último informe sobre el *Cambio Clímatico 2007 nos ofrece un panorama sintetizado sobre los cambios observados en los últimos años.

- De los últimos años (1995-2006), once figuran entre los 12 más calidos en los registros intrumentales de la temperatura de la superficie mundial (desde 1850) .
- El aumento del nivel del mar concuerda con este calentamiento. El nivel de los océanos mundiales ha aumentado desde 1961 a un promedio de 1.8 mm/año y desde 1993 a un promedio de 3.1 mm/año.
- Disminución observada en las extensiones de nieve y de hielo. Datos satelitales obtenidos desde 1978 indican que el promedio anual de la extensión anual de los hielos marinos árticos ha disminuido en un 2.7% anual por decenio; con disminuciones estivales aún más acentuadas de 7.4% por decenio.
- Entre 1990 y 2005 la precipitación aumentó notablemente en las partes orientales del norte de América del Sur y del Norte, Europa Sptentrional, Asia Septentrional y Central. En todo el mundo, la superficie afectada por las sequías ha aumentado probablemente desde el decenio de 1970.
- Es muy probable que en los últimos 50 años los días fríos, las noches frías y las escarchas hayan sido menos frecuentes en la mayoría de las áreas terrestres, y que los días y noches cálidos hayan sido mas frecuentes..
- Es probable que las ondas de calor hayan sido más frecuentes en la mayoría de las áreas terrestres.
- Las observaciones evidencian un aumento de la actividad ciclónica tropical intensa en el Atlántico Norte desde aproximadamente 1970.
- En los ecosistemas terrenos, la anticipación de las primaveras y el desplazamiento hacia los polos y hacia mayores alturas del ámbito geográfico dela flora y la fauna estan vinculados, con un grado de confianza muy alto, al reciente calentamiento global.

Con respecto a la salud humana, el aumento global de la temperatura afectaría la mortalidad a causa del calor en Europa, la alteración de los vectores de las enfermedades infecciosas en ciertas áreas o de los pólenes alergénicos en latitudes altas y medias del Hemisferio Norte.

* *Cambio Climático 2007: Informe de Síntesis GIECC. OMM/PNUMA. Ginebra, Suiza. 2007*

Los mismos acontecimientos nos están previniendo, hay tiempo y forma de revertir el cambió climático?, al parecer si, tenemos la suficiente tecnología para hacerlo, ojalá tengamos la voluntad y el tiempo para llevarlo a cabo; el principal obstáculo para lo anterior sería (segúna la situación actual) el factor económico de todos los países, se tiene que investigar más en fuentes sustitutivas de energía y modificar las ya existentes.Ojalá encontremos pronto las acciones de respuesta y mitigación pertinentes.

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- ✓ *Assessing Dangerous climate change through an update of the intergovernmental Panel on Climate Change (IPCC). Smith JB. et al. Proc Natl Acad Sci USA 2009 17mar;106(11):4133-7*
- ✓ *Aviation and global climate change in the 21st century. Lee DS. et al. Atmosph Environ 2009;43:3520-37.*
- ✓ *Cambio climático y enfermedades infecciosas. Un nuevo escenario epidemiológico. Cerda JL. et al. Rev Chil Infect 2008 december;25(6):447-52*
- ✓ *Characterization factors for global warming in life cycle assessment based on damages to humans and ecosystems. Schryver AM. et al. Environ Sci Technol 2009 15March;43(6):1689-95*
- ✓ *Climate and climate change. Ridgwell A. Valdes PJ. Curr Biol 2009;19(14):R563-R566*
- ✓ *Climate change and food safety: an emerging issue with special focus on Europe. Miraglia M. et al. Food Chem Toxicol 2009 May;47(5):1009-21. [REVIEW]*
- ✓ *Climate change and health costs of air emissions from biofuels and gasoline. Hill J. et al. PNAS 2009 10feb;106(6):2077-82.*
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- ✓ *Climate change puts children in jeopardy. Voelker R. JAMA 2009 3JUNE,301(21):2197-9*
- ✓ *Climate change and infectious diseases in North America: The road ahead. Greer A. et al. CMAJ 2008;178(6):715-22. [REVIEW]*
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- ✓ *Human health risk assessment due to global warming- a case study of the gulf countries. Husain T. et al. Int J Environ Res Public Health 2008 December;5(4):204-12*
- ✓ *Identifying vulnerable subpopulations for climate change health effects in the Unites States. Balbus JM. et al. J Occup Environ Med 2009;51(1):3-7*
- ✓ *Impact of climate change and other factors on emerging arbovirus diseases. Gould EA. et al. Trans RS Trop Med Hig 2009;103:109-21. [REVIEW]*
- ✓ *Impacts of climate change on indirect human exposure to pathogens and chemicals from agriculture. Boxall A. Environ Health Perspect 2009 April;117(4):508-14. [REVIEW]*
- ✓ *Impacts of climate change on marine organisms and ecosystems. Brierley AS. Ford JK. Curr Biol 2009;19(14):R602-R614*
- ✓ *International study of temperature, heat and urban mortality: the ISOTHURM Project. McMichael AJ. et al. (Participación de la Dra. Isabelle Romieu). Int J Epidemiol 2008;37:1121-1131. [MULTICENTER STUDY]*
- ✓ *Irreversible climate change due to carbon dioxide emissions. Solomon S. et al. Natl Acad Sci USA 2009;106(6):1704-9*
- ✓ *Re-evaluation of forest biomass carbon stocks and lessons from the world´s most carbon-dense forest. Keith H. et al. PNAS July;106(28):16635-40*
- ✓ *Rising CO2, climate change, and Public Health: exploring the links to plant biology. Ziska LH. et al. Environ Health Perspectives 2009 February;117(2):155-8*
- ✓ *Temperature extremes and health: impacts of climate variability and change in the United States. O´Neill MS. et al. J Occup Environ Med 2009;51(1):13-25*

- ✓ *The global impacts of climate change on human health. Odingo RS. Global Health Promotion 2009;(suppl 1)68-71*
- ✓ *The physician´s response to climate change. Sarfaty M. et al. Fam Med 2009;41(5):358-63*
- ✓ *U.S. funding is insufficient to address the human health impacts of and public health responses to climate variability and change. Ebi KL. et al. Environ Health Perspect 2009 June;117(6):857:62*
- ✓ *Zoonoses and climate variability: the example of leishmaniasis in southern departments of Colombia. Cárdenas R. et al. Ann NY Acad Sci 2008 December;1149:326-330*

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