

Haidong Kan, Ph.D.

CURRICULUM VITAE

CONTACT INFORMATION

National Institute of Environmental Health Sciences
National Institutes of Health
Epidemiology Branch
111 T.W. Alexander Drive
P.O. Box 12233, Mail Drop A3-05
Research Triangle Park, NC 27709
Tel (919)-316-4506
Fax (919)-541-2511
kanh@niehs.nih.gov

EDUCATION

Doctor of Philosophy Graduated: 2003	Fudan University, Shanghai, China Environmental Health Sciences Outdoor air pollution and its health impact in Shanghai, China
Master of Sciences Graduated: 2000	Fudan University, Shanghai, China Environmental Health Sciences Indoor fungi and its health effects
Bachelor of Medicine Graduated: 1997	Shanghai Medical University, Shanghai, China Preventive Medicine

ACADEMIC APPOINTMENTS

2005 – Present	National Institute of Environmental Health Sciences Post-doctoral fellow, Epidemiology Branch
2003 – 2004	Fudan University, Shanghai, China Assistant Professor, Department of Environmental Health

OTHER PROFESSIONAL POSITIONS

2001	Visiting fellow in P. Catholic University of Chile, Chile.
1996	Intern in Medicine, 5 th Hospital, Shanghai, China

RELEVANT TEACHING EXPERIENCE

2003-2004	Tutor on “Environmental health Science” in Fudan University
2003-2004	Tutor on “Health-based risk assessment” in Fudan University

PROFESSIONAL ACTIVITIES

Editor of *Environment Health Perspectives (Chinese Edition)*

Reviewer for *Stroke, Environmental Research, Journal of Environmental Management, Polish Journal of Environmental Studies*

Member of

- *Chinese Society of Preventive Medicine*
- *Shanghai Society of Environmental Sciences*
- *Shanghai Society of Trace Elements*

AWARDS

2005	Shanghai Science & Technology Progress Award
2004	Shanghai Medical Science & Technology Award
2003	Excellent Doctoral Thesis of Fudan University
2000-2003	Excellent Ph.D. Candidate of Fudan University
1997-2000	Graduate Scholarship of Fudan University

GRANTS

1. A time-series study of ambient air pollution and daily mortality in Shanghai, China

Principal Investigator

Duration: 2004-2006

Sponsor: the Health Effects Institute, *Public Health and Air Pollution in Asia* (PAPA) program
<http://www.healtheffects.org/international.htm>

Grant NO: 4717-RFIQ03-3/04-13

2. Research on PM_{2.5} standard in Shanghai

Principal Investigator

Duration: 2003-2005

Sponsor: Shanghai Municipal Committee of Science and Technology,

Grant NO: 03DZ05052

3. Cardiovascular toxicity of PM_{2.5}

Principal Investigator

Duration: 2003-2005

Sponsor: Shanghai Municipal Committee of Science and Technology,

Grant NO: 03ZR14009

4. Association of particulate matter from different sources with adverse health effects in Shanghai.

Principal Investigator, relinquished 12-2004

Duration: 2005-2006

Sponsor: Shanghai Municipal Committee of Science and Technology,
Rising-star program for Young Investigators,

Grant NO: 04QMX1402

5. Health impact assessment of traffic-related air pollution in Shanghai, China: 2000-2020

Co-investigator

Duration: 2005-2006

Sponsor: U.S. Energy Foundation

Grant NO: G-0502-07721

6. Low-carbon development, outdoor air pollution and human health in Shanghai, China

Co-investigator

Duration: 2002-2003

Sponsor: U.S. Energy Foundation

Grant NO: G-0212-06632

RECENT PUBLICATIONS

Refereed journal articles (corresponding author):***In English**

1. Zhang Y, Huang W, London SJ, Song G, Jang L, Chen G, Zhao N, Chen B, and **Kan H*** (2006). Ozone and daily mortality in Shanghai, China. *Environ Health Perspect*, 114(8): 1227-1232.
2. Chen G, Zhang Y, Song G, Jiang L, Zhao N, Chen B, and **Kan H*** (2006). Is diurnal temperature range a risk factor for acute stroke death? *Int J Cardiol*, in press (doi:10.1016/j.ijcard.2006.03.067).
3. Zhang Y, Chen C, Chen G, Chen B, Fu Q and **Kan H*** (2006). Application of DALYs in measuring the health burden of ambient air 4. pollution: a case study in Shanghai, China. *Biomed Environ Sci*.

- 19(2):110-117.
4. **Kan H**, Chen B, Chen C, Wang B, and Fu Q (2005). Establishment of exposure-response functions of air particulate matter and adverse health outcomes in China and worldwide. *Biomed Environ Sci*, 18:159-63.
 5. **Kan H***, Chen B, Fu C, Yu S and Mu L (2005). Relationship between ambient air pollution and daily mortality of SARS in Beijing. *Biomed Environ Sci*, 18: 1-4.
 6. **Kan H**, Chen B*, Chen C, Fu Q and Chen M (2004). An evaluation of public health impact of ambient air pollution under various energy scenarios in Shanghai, China. *Atmos Environ*, 38(1): 95-102.
 7. **Kan H*** and Chen B (2004). The Association of Daily Diabetes Mortality and Outdoor Air Pollution in Shanghai, China. *J Environ Health*, 67(3): 21-26.
 8. **Kan H*** and Chen B (2004). Statistical distribution of major air pollutants in Shanghai, China. *Biomed Environ Sci*, 17: 366-372.
 9. **Kan H*** and Chen B (2004). Particulate air pollution in urban area of Shanghai, China: health-based economic assessment. *Sci Total Environ*, 322(1-3): 71-79.
 10. Chen B*, Hong C, and **Kan H** (2004). Exposures and health outcomes from outdoor air pollutants in China. *Toxicology*, 198(1-3): 291-300.
 11. **Kan H*** and Chen B (2003). Air pollution and daily mortality in Shanghai: a time series study. *Arch Environ Health*, 58(6): 360-367.
 12. **Kan H*** and Chen B (2003). A case-crossover analysis of air pollution and daily mortality in Shanghai. *J Occup Health*, 45(2): 119-124.
 13. **Kan H*** and Chen B (2003). Acute stroke mortality and air pollution: new evidence from Shanghai, China. *J Occup Health*, 45 (5): 321-323.
 14. **Kan H***, Jia J, and Chen B (2003). Temperature and daily mortality in Shanghai: a time-series study. *Biomed Environ Sci*, 16: 133-139.
 15. Chen B* and **Kan H** (2003). Risk assessment on human health associated with air pollution and energy options in Shanghai. *Toxicology*, 191 (1): 13-14.
 16. **Kan H*** and Chen B (2002). The impact of long-term exposure to air particulate matter on life expectancy and survival rate of shanghai residents. *Biomed Environ Sci*, 15: 209-214.
 17. **Kan H**, Heiss G, Rose KM, Whitsel E, Lurmann F, London SJ. Traffic exposure and lung function in adults: the Atherosclerosis Risk in Communities study. In preparation.
 18. **Kan H**, Rose KM, Klein R, Whitsel E, Lurmann F, London SJ. Traffic exposure and retinal abnormalities in the Atherosclerosis Risk in Communities (ARIC) Study. In preparation.

In Chinese:

1. Zhang Y, Ding J, Cao S and **Kan H*** (2006). Study on oxidation stress

- effects of PM_{2.5} on cardiovascular endothelium cells. *Acta Scientiae Circumstantiae*. 26(1): 142-145. (in Chinese)
2. Zhang Y, Cao S, Ding J and **Kan H*** (2006). Study on the role of inflammatory factors in the cardiovascular toxicity of PM_{2.5}. *China Environ Sci*. 26(1): 16-19. (in Chinese)
 3. Qian X, **Kan H***, Song W and Chen B (2005). Meta analysis of association between PM_{2.5} and daily mortality. *J Environ Health*, 22(4): 290-292. (in Chinese)
 4. Qian X and **Kan H*** (2005). Epidemiological evidence of ambient particulate matter on cardiovascular system: a review. *Chinese J Epidemiol*, 26: 999-1001. (in Chinese)
 5. Chen B* and **Kan H** (2003). Air pollution and health impacts - experience and challenge in China. *Environ Health Perspect (Chinese Edition)*, 111 (1c): 3.
 6. **Kan H**, Chen B and Chen C (2002). Assessment on the health impact of residents in shanghai due to improvement in energy efficiency and structure. *Shanghai Environ Sci*, 21(9): 520-524 (in Chinese).
 7. **Kan H** and Chen B (2002). Meta analysis of exposure-response functions of air particulate matter and adverse health outcomes in China. *J Environ Health*, 19(6): 422-424 (in Chinese).
 8. **Kan H** and Chen B (2002). Air pollution and its health effects in China during the past decade: a critical review. *Chinese J Prev Med*, 36 (1): 59-61 (in Chinese).
 9. Chen B, Hong C, Zhu Z and **Kan H** (2002). Quantitative evaluation of the impact of air sulfur dioxide on human health in the urban districts of Shanghai. *J Environ Health*, 19(1): 11-13 (in Chinese).
 10. Chen B, Hong C, and **Kan H** (2001). Methodology Research on the Health Risk Assessment of Ambient Air Pollution. *J Environ Health*, 18 (2): 67-69 (in Chinese).
 11. **Kan H** and Chen B (2001). Health effect and other ancillary effects of greenhouse gas mitigation policies. *J Environ Health*, 18: 323-325 (in Chinese).
 12. **Kan H** and Chen B (2001). Global climate change and its health effects. *Northern Environ*, 2: 35-36 (in Chinese).

Technical Reports

1. **Kan H**, Chen B, Wang H (2001). Economic valuation of health outcomes associated with air pollution under various energy scenarios in Shanghai (in English & Chinese). Final report to U.S. EPA and U.S. NREL.
http://www.epa.gov/ies/documents/shanghai/full_report_chapters/ch10.pdf
2. Chen B, Hong C, **Kan H** (2001). Integrated Assessment of Energy

Options and Health Benefits in Shanghai (in English & Chinese). Final report to U.S. EPA and U.S. NREL.

http://www.epa.gov/ies/documents/shanghai/full_report_chapters/ch9.pdf

3. Chen B, Hong C, **Kan H** (2000). Comparison of the health impact of ambient air pollution in Shanghai in 1990, 1998 and 1999. Report to China Ministry of Health. (in Chinese).

Book Chapter

1. **Kan H**, Chen B, Chen C. Public Health Ambient Air Pollution in Shanghai: A Health-Based Assessment. In *Urbanization, Energy, and Air Pollution in China: The Challenges Ahead -- Proceedings of a Symposium*, pp 281-296. National Academies Press, Washington D.C., 2004. URL: darwin.nap.edu/openbook/0309093236/html/283.html
2. **Kan H**. Risk assessment. In *Modern Toxicology*, pp 125-137. Fudan University Press, Shanghai, 2004. (in Chinese)

MEETINGS AND INVITED PRESENTATIONS

1. **Kan H**, Heiss G, Rose KM, Whitsel E, Lurmann F and London SJ (2006). Traffic exposure and lung function in adults: the Atherosclerosis Risk in Communities (ARIC) study. American Thoracic Society International Conference, San Diego, CA.
2. **Kan H**, Zhang Y and Chen B (2006). A time-series study on air pollution and human daily mortality in Shanghai, China. Annual Conference of the Health Effects Institute, San Francisco, CA.
3. **Kan H** and Chen B (2002). Integrated Assessment of Human Health and Energy Option in Shanghai. Presented at “Workshop on Integrated Assessment of Energy Options & Health Benefits” jointly attended by policy makers and health & environmental experts. Shanghai, China.
(<http://www.epa.gov/ies/documents/shanghai/smhealth.pdf>)
4. Chen B and **Kan H** (2002). Economic Valuation Of Health Outcomes Associated With Air Pollution Under Various Energy Scenarios in Shanghai. Presented at “Workshop on Integrated Assessment of Energy Options & Health Benefits” jointly attended by policy makers and health & environmental experts. Shanghai, China.
(http://www.epa.gov/ies/documents/shanghai/sm_econ.pdf)
5. Chen B and **Kan H** (2002). Integrated Assessment on Energy options and Health Impact in Shanghai, China. Presented at “Air Pollution as a Climate Forcing: A Workshop” (<http://www.giss.nasa.gov/meetings/pollution02/>). Honolulu, Hawaii.