

**PRE-FILED TESTIMONY  
OF DE-KUN LI, MD, PhD, MPH  
MPUC Docket No. 2011-00262**

1 Q. Please state your name and business address.

2 A. My name is De-Kun Li, MD, PhD, MPH. My address is:

3 Division of Research  
4 Kaiser Foundation Research Institute  
5 Kaiser Permanente  
6 2000 Broadway  
7 Oakland, CA 94612

8 Q. Briefly state your educational background and current employment.

9 A. I completed my medical training and a master's degree in public health at  
10 Shanghai Medical University (now part of Fudan University), Shanghai,  
11 China. I received my PhD in epidemiology from the University of  
12 Washington, Seattle.

13 My current position is senior scientist (Research Scientist III, equivalent to  
14 Full Professor) at the Division of Research, Kaiser Permanente Northern  
15 California. I am also a faculty member in the Department of Health Research  
16 & Policy of Stanford University. I have supervised doctoral students from  
17 the departments of epidemiology at UCB (University of California,  
18 Berkeley) and UCLA (University of California, Los Angeles).

19 Q. Briefly describe your professional experience.

20 A. I am a reproductive and perinatal epidemiologist with extensive experience  
21 conducting epidemiologic studies related to pregnancy outcomes and early  
22 childhood diseases including miscarriage, preeclampsia, sudden infant  
23 death syndrome (SIDS), birth defects, preterm delivery, low birthweight,  
24 and childhood asthma and obesity. My recent research on environmental  
25 exposures during pregnancy has focused on Bisphenol-A (BPA) and  
26 electromagnetic fields (EMF) and their impact on reproductive systems and  
27 adverse pregnancy outcomes. I have published five papers on the health  
28 effects of exposure to magnetic fields in peer-reviewed journals (see my  
29 *curriculum vitae*, attached as Exhibit A). The two most recent articles  
30 published in the *Archives of Pediatrics and Adolescent Medicine* (a **JAMA**  
31 journal) in 2011 and *Scientific Reports* (a **Nature** journal) in 2012 were  
32 prospective studies examining the effect of maternal exposure to magnetic  
33 fields during pregnancy on the risks of asthma and childhood obesity in

1 offspring during a follow-up period of 13 years. News coverage of the  
2 published papers can be obtained by a Google search of my name.

3 In addition to EMF health effects, my research areas include:

- 4 • Health effects of endocrine disruptors, especially Bisphenol-A (BPA), on  
5 male and female reproductive systems
- 6 • Pharmacological effects of medication use during pregnancy on pregnancy  
7 outcomes
- 8 • Genetic determinants of pregnancy outcomes
- 9 • Risk factors for poor semen quality
- 10 • Risk factors for infertility, miscarriage, preterm delivery, preeclampsia,  
11 sudden infant death syndrome, cerebral palsy, birth defects, pediatric  
12 diseases, including childhood cancer and neurological disorders;  
13 autoimmune diseases in relation to maternal-fetal interaction, and breast  
14 cancer.

15 Q. Are you a member of any professional organizations or have other professional  
16 affiliations?

17 A. I am currently the associate editor of the American Journal of  
18 Epidemiology.

19 B. I have been invited to serve on multiple *NIH* expert review panels (NIH  
20 Study Sections) including those sponsored by National Institute of  
21 Environmental Health Sciences (*NIEHS*), National Institute of Child Health  
22 and Human Development (*NICHD*), and National Institute of Occupational  
23 Safety and Health (*NIOSH/CDC*).

24 C. I have also been invited by the *National Academy of Science* to be one of  
25 the panel members in the U.S.-China Collaboration of Biomedical  
26 Research.

27 D. I have been a member of many professional societies including:  
28 International Society of Environmental Epidemiology, Society for  
29 Epidemiological Research, American College of Epidemiology, Teratology  
30 Society, International Society for Pharmacoepidemiology, and Society of  
31 Public Health

32 Q. Have you authored any papers or journal articles?

- 1 A. I have published extensively with more than 70 publications in peer –  
2 reviewed journals. More importantly, I first-authored 36 of these  
3 publications. Many of these publications have been widely reported and  
4 covered by national, international, and local news media including recent  
5 studies of:
- 6 a. Maternal exposure to magnetic fields during pregnancy and the risks  
7 of childhood obesity and asthma in offspring during 13 years of  
8 follow up
- 9 b. High level of exposure to magnetic fields and poor semen quality
- 10 c. Exposure to Bisphenol-A (BPA) and reduced male sexual function,  
11 poor semen quality
- 12 d. Exposure to BPA during pregnancy and increased risk of low  
13 birthweight and mal-development of fetal genitalia
- 14 e. Caffeine intake during pregnancy and miscarriage risk
- 15 f. Pacifier use and use of a fan in relation to reduced SIDS risk
- 16 g. Depression during pregnancy and preterm delivery.
- 17 Q. Have some research and epidemiological studies shown negative results for  
18 adverse health effects associated with RF exposure?
- 19 A. My research has been focused on power-line frequency EMF exposure, not  
20 RF EMF exposure. However, I am aware of the controversies about the  
21 health effect of RF EMF exposure, mostly from cell phone-related  
22 exposure, and reports of a potential increased risk of brain tumors  
23 associated with long-term (> 10 years) use of cell phones. Although the  
24 number of studies examining RF EMF health effect remains limited, the  
25 existing reported studies are riddled with methodological problems. Chief  
26 among them are retrospective designs [trying to ascertain RF EMF  
27 exposure *after* outcomes (e.g., brain cancer) had already occurred], and  
28 short term use of cell phone. Many of the outcomes examined (e.g., cancer)  
29 have a long latency period and take decades to show symptoms. Thus,  
30 those studies of short-term exposure which claim no effect on disease  
31 outcomes that take a long time to develop are irrelevant in determining RF  
32 EMF health effect.
- 33 B. The science of understanding EMF health effects is still at an early stage.  
34 Like studying any other environmental risk factors, we will have to deal  
35 with the uncertainty of EMF safety for some time to come. Such

1           uncertainty means that nobody can make a definitive statement about RF  
2           EMF health effect, whether safe or not safe. In other words, while nobody  
3           can make a final conclusion about RF EMF adverse health effects, nobody  
4           can make a claim that RF EMF is safe either. Any such claim that RF EMF  
5           is safe is either ignorant or misleading.

6           C.     Among the limited number of studies examining RF EMF health effect,  
7           they were almost exclusively focused on cell phone use. I am not aware of  
8           any studies conducted by any entities to demonstrate that use of the smart  
9           meter with massive installation in residential areas is safe for the human  
10          population.

11          D.     Given the uncertainty about RF EMF health effects, the question becomes  
12          whether it is the consumers responsibility to demonstrate the safety of a  
13          product by being exposed to it and becoming a victim or casualty (e.g.,  
14          brain cancer); or the responsibility of the producer of smart meters to  
15          demonstrate its safety before releasing it to the public. FDA requires  
16          pharmaceutical companies to demonstrate that a new medication is safe  
17          before it is allowed to be released on the market. Medications usually have  
18          therapeutic value for patients and only those with certain conditions are  
19          exposed to them (affected size is really small for most medications). For a  
20          product like smart meters that almost everyone is exposed to,  
21          demonstrating its safety is the paramount responsibility of the producer.

22          Q.     Please describe your prospective epidemiological studies related to RF exposure.

23          A.     Over 13 years ago, we conducted a study to examine the health effect of  
24          exposure to magnetic fields during pregnancy among more than 1,000  
25          pregnant women. It was a prospective study, meaning magnetic exposure  
26          was measured during pregnancy *before* the outcomes of interest occurred,  
27          compared to many retrospective studies of RF EMF about cell phone use.  
28          Our study was also based on objective measure of magnetic fields, meaning  
29          that we asked participating women to wear a meter that captured magnetic  
30          fields from all sources, rather than based on participant recall as in most RF  
31          EMF studies of cell phone use.

32          B.     We first examined the health effect of magnetic fields on the risk of  
33          miscarriage. We published a paper in 2002 showing that women with  
34          higher exposure level to magnetic fields had almost twice the risk of  
35          miscarriage. The finding was widely reported by the international media at  
36          that time. BBC sent a reporting crew specifically to cover the story.

37          C.     We then followed the offspring for up to 13 years. We published two  
38          papers, one in 2011 and another in 2012 reporting that children of mothers

1 who were exposed to higher levels of magnetic fields during pregnancy had  
2 a higher risk of childhood obesity and asthma (3-6 times higher in some  
3 cases). There was a dose-response relationship, meaning that the higher the  
4 maternal exposure level of magnetic fields was during pregnancy, the  
5 higher the risk of asthma or childhood obesity in their offspring. The  
6 papers were widely covered by the news media.

7 D. The important strengths of both findings are the prospective design and  
8 objective measure of exposure levels of magnetic field, both of which  
9 would lead to more accurate measure of magnetic field level. When  
10 magnetic fields were not measured correctly, like in those studies based on  
11 participants' recall, the resultant finding is "no adverse effect" due to what  
12 we call *non differential misclassification of exposure*.

13 Q. Are there plausible mechanisms by which non-thermal biological effects  
14 associated with RF exposure could result in cancer or other adverse health effects?

15 A. Due to the limited research effort, the underlying mechanisms of the  
16 potential EMF health effect are not totally understood at present. Skeptics  
17 have been focused on the EMF thermal effect, especially those who are  
18 NOT in the profession of biomedical research, such as physicists or  
19 engineers. It is now known that EMFs can interfere with the human body  
20 through multiple mechanisms. For example, it has been demonstrated that  
21 communication between cells depends on internal EMF signals, likely at a  
22 very low level. External EMFs could conceivably interfere with normal  
23 cell communication, thus disrupting normal cell differentiation and  
24 proliferation. Such disturbance could interfere with fetal development and  
25 lead to miscarriage, birth defects, and cancer. However, demonstrating  
26 such a mechanism will take time and effort through funded research.

27 Q. In your opinion, does the state of the science support a public policy decision  
28 concluding that exposure to RF from wireless smart meters is safe?

29 A. No. As stated above, at this point, the safety of RF EMF exposure is  
30 uncertain, largely due to a lack of research effort. Given the ubiquitous RF  
31 EMF exposure and its potential impact on large populations, the resources  
32 for studying RF EMF health effect are relatively limited. In fact, emerging  
33 reports, though still limited, are starting to show possible links to adverse  
34 health outcomes, especially with long-term exposure.

35 B. I am not aware of any studies that have shown that exposure to smart  
36 meters is safe for the human population. Anyone who wants to install  
37 smart meters to every household needs to conduct studies to demonstrate  
38 that such massive installation is safe and will have no effect on the risk of

1 cancer, miscarriage, childhood obesity and asthma, autoimmune diseases,  
2 etc.

3 C. Exposure to smart meter RF EMF is different from exposure to cell phone  
4 RF EMF in several important ways:

5 a. First, cell phone use is usually for a short duration. However, a  
6 smart meter, if installed near or outside the location within a  
7 residence that people are frequently occupying (such as bedrooms,  
8 living rooms, nurseries, etc.,) creates exposure to RF EMF that could  
9 last for many hours.

10 b. Use of cell phones is a voluntary exposure. One can choose not to  
11 use a cell phone. Vulnerable populations like infants and young  
12 children currently are not exposed to cell phone RF EMF in most  
13 cases. However, every resident, including infants, pregnant women  
14 and the fetus, in a household will be exposed to RF EMF from smart  
15 meters if installed nearby. Given that installation of smart meters is  
16 mandatory in most places, RF EMF exposure from smart meters is  
17 an "involuntary" exposure. Based on the principle of risk  
18 assessment, involuntary exposures require more stringent safety  
19 standards.

20 c. Because of the nature of involuntary exposure, many susceptible  
21 populations including pregnant women, young children, and those  
22 who are sensitive to RF EMF are being equally exposed.  
23 Susceptible populations usually have much lower thresholds of  
24 exposure level.

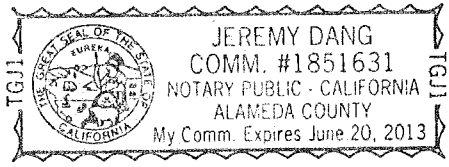
Dated this 3<sup>rd</sup> day of December, 2012.


  
De-Kun Li

STATE OF CALIFORNIA  
ALAMEDA, ss:

December 3, 2012

Personally appeared the above-named De-Kun Li, and stated under oath that the foregoing Affidavit made by him is true and based upon his own personal knowledge, information or belief, and so far as upon information and belief, he believes the information to be true. Before me, Jeremy Dagg, Notary Public



  
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Notary Public/Attorney-at-Law  
*Jeremy Dang*

Name Typed or Printed  
My Commission Expires: 06/20/2013

## Curriculum Vita

### 1. GENERAL INFORMATION

**Name:** De-Kun Li  
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Kaiser Foundation Research Institute  
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2000 Broadway  
Oakland, CA 94612  
**Telephone:** 510-891-3755  
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#### A. Education

1977- 82	Shanghai Medical University, Shanghai Major: Medicine	M.D.
1982- 85	Shanghai Medical University, Shanghai Major: Occupational Epidemiology	M.P.H.
1986- 93	University of Washington, Seattle, WA Major: Epidemiology	Ph.D.
1993-94	University of Washington, Seattle, WA Major: Environmental and Molecular Epidemiology	Postdoctoral Fellow

#### B. Professional experience

1993-98:	Investigator I (equivalent of assistant professor) Division of Research, Kaiser Permanente Medical Care Program, Oakland, CA
1998-2004	Investigator II (equivalent of associate professor) Division of Research, Kaiser Permanente Medical Care Program, Oakland, CA
2004-present	Investigator III (equivalent of full professor) Division of Research, Kaiser Permanente Medical Care Program, Oakland, CA
2001-present	Visiting Professor Shanghai Institute of Planned Parenthood Research
2005-	Lecturer Stanford University, Department of Health Research and Policy



## **C. Honors and awards**

- 1987 Outstanding Student, School of Public Health, University of Washington  
1989 Recipient of Senator Warren Magnuson Memorial Fellowship, National SIDS Foundation  
1990 Participant of 1990 SER Student Workshop, Utah  
1990 Recipient of the Young Investigator Travel Awards, Teratology Society  
1991-92 Recipient of Gatzert Child Welfare Fellowship  
1993 Recipient of the Young Investigator Travel Awards, Teratology Society  
2007 Nominee for the board of directors of American College of Epidemiology

## **2. RESEARCH**

### **A. Selected Publications**

#### **1. Peer-reviewed articles**

- Li DK, Zhou QD, Qin XB, et al. An epidemiological study on the effect of N,N'-methylene-bis-(2-amino-1,3,4-thiadiazole)(MATDA) on outcomes of pregnancy. *Teratology* 1986;33:289-97.
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- Li DK, Daling JR, Mueller BA, Hickok DE, Fantel AG, Weiss NS. Periconceptional multivitamin use in relation to the risk of congenital urinary tract anomalies. *Epidemiology* 1995;6:212-8.
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- Ettinger B, Li, DK, Klein R. Unexpected vaginal bleeding and associated gynecologic care in postmenopausal women using hormone replacement therapy: comparison of cyclic versus continuous combined schedules. *Fertil Steril* 1998;69:865-9
- Freedman JM, Li DK, Drasner K, Jaskela MC, Larsen B, Wi S. Transient neurologic symptoms after spinal anesthesia: an epidemiological study of 1.863 patients. *Anesthesiology* 1998;89:633-41.
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- Li DK, Willinger M, Petitti DB, Odouli R, Liu L, Hoffman HJ. Use of a dummy (pacifier) during sleep and risk of sudden infant death syndrome (SIDS): population based case-control study. *BMJ*. 2005 Dec 9; [Epub ahead of print]
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- Mahadevan U, Sandborn WJ, **Li DK**, Hakimian S, Kane S, Corley DA. Pregnancy outcomes in women with inflammatory bowel disease: a large community-based study from Northern California. *Gastroenterology*. 2007;133(4):1106-12.
- Weng X, Odouli R, **Li D-K**. Maternal caffeine consumption during pregnancy and the risk of miscarriage: a prospective cohort study. *Am J Obstet Gynecol*. 2008 Mar;198(3):279.e1-8. Epub 2008 Jan 25.
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- Thompson M, Williams J, Naleway A, **Li DK**, Chu S, Bozeman S, Hill H, Cragan J, Shay DK, and The Pregnancy and Influenza Project Workgroup. The Pregnancy and Influenza Project: Design of an observational case-cohort study to evaluate influenza burden and vaccine effectiveness among pregnant women and their infants. *Am J Obstet Gynecol*. 2011 Mar 14. [*Epub ahead of print*].
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- Li DK, Chen H, Odouli R. Maternal Exposure to Magnetic Fields During Pregnancy in Relation to the Risk of Asthma in Offspring. *Arch Pediatr Adolesc Med* Oct;165(10):945-50 2011 August [On-line First]
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- Hutfless S, **Li D-K**, Heyman MB, Bayless TM, Abramson O, Herrinton LJ, Prenatal and perinatal characteristics associated with pediatric-onset inflammatory bowel disease. *Digestive Diseases and Sciences* Mar 2012 (Epub ahead of print).
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- Li DK, Ferber JR, Odouli R, Quesenberry Jr CP. A Prospective Study of *In-utero* Exposure to Magnetic Fields and the Risk of Childhood Obesity. *Scientific Reports (Nature On-line Open Access)* DOI: 10.1038/srep00540, July 27, 2012
- Craig Hansen, Sheila Desai, Christine Bredfeldt, Craig Cheetham, Mia Gallagher, **De-Kun Li**, Marsha A. Raebel, Karen Riedlinger, David K. Shay, Mark Thompson, PhD, Robert L. Davis. A large population-based study of pandemic influenza A H1N1 diagnosis during pregnancy and maternal and neonatal outcomes. *J Inf Dis J Infect Dis*. 2012 Aug 2. [Epub ahead of print]
- Bobo WV, Davis RL, Toh S, **Li D-K**, Andrade SE, Cheetham TC, Pawloski P, Dublin S, Pinheiro S, Hammad T, Scott SE, Epstein RA, Jr., Arbogast, PG, Morrow JA, Dudley JA, Lawrence JM, Avalos LA, Cooper WO. Trends in the Use of Antiepileptic Drugs among Pregnant Women in the US, 2001–2007: A Medication Exposure in Pregnancy Risk Evaluation Program Study. *Paediatric and Perinatal Epidemiology*, 2012, **26**, 578–588.
- Hansen C, Joski P, Freiman H, Andrade S, Toh S, Dublin S, Cheetham C, Cooper W, Pawloski P, **Li D-K**, Beaton S, Kaplan S, Scott P, Hammad T, Davis R. Medication Exposure in Pregnancy Risk Evaluation Program: The Prevalence of Asthma Medication Use During Pregnancy. *Matern Child Health J*, 2012, [Epub ahead of print DOI 10.1007/s10995-012-1173-x].

### **Books, monographs, and chapters in books**

- Gao ES, Gu XY, Li DK. Evaluation of the focus of family planning program. In: Gao ES, Gu XY, Zhang XZ, eds. Evaluation of Local Family Planning Program. Beijing: Chinese Population Press, 1990; p. 31-43.

### **3. Letters in peer-reviewed publications**

- Li DK, Daling JR, Hickok DE. Labor and Delivery Events and Risk of Sudden Infant Death Syndrome (SIDS) [Letter]. *Am J Epidemiol* 1992;135:585-6.
- Li DK, Weiss NS. Homicide and the Prevalence of Handguns: Canada and the United States, 1976 to 1980 [Letter]. *Am J Epidemiol* 1992;136:618.
- Li DK. Factors potentiating the risk of sudden infant death syndrome associated with the prone position [Letter]. *N Engl J Med* 1994; 330:63.
- Li DK. Reply to "prenatal exposure to sex hormones: a case-control study [Letter]. *Teratology*

1998;58:1.

- Li DK, Neutra RR. Letter to the Editor: Magnetic fields and miscarriage. *Epidemiology*. 2002;13:237.
- Li DK, Neutra RR. Letter to the Editor: Magnetic fields and miscarriage-2. *Epidemiology*. 2002;13:372.
- Li DK, Liu L, Odouli R. Authors' Reply: Questions regarding methodological details. *BMJ*, August, 2003
- Li DK, Liu L, Odouli R. Authors' Reply: True risks or only suspicions. *BMJ*, 2004 328:108
- Neutra, R. R. , Li D. "Magnetic fields and miscarriage: A commentary on Mezei et al., JESEE 2006." *Journal of Exposure Science and Environmental Epidemiology* 2008;18(6): 537-538.

## **B. Scientific and Professional Presentations and Abstracts**

### **1. Invited meetings and presentations**

- 1) NICHD panel evaluation of public campaign "Back to Sleep". 1997
- 2) Program evaluation and Lecture at the Department of Reproductive Epidemiology, Shanghai Institute of Planned Parenthood Research, 2001
- 3) NSAIDs Expert Advisory Board Member at Wyeth-Aerst Research, Wyeth Pharmaceuticals, 2001
- 4) Expert Panel member for future research agenda on effect of magnetic fields exposure and the risk of miscarriage, Organized by Electric Power Research Institute, 2002
- 5) NCI Workshop on *Early Reproductive Events and Breast Cancer*. 2003
- 6) Session Chair and organizer *Quality of Reviews at NIH study sections* sponsored by American College of Epidemiology at the Congress of Epidemiology 2006, Seattle, 2006
- 7) Invited speaker at Department of Epidemiology, UCLA, June, 2007
- 8) Invited speaker at Department of Human Genetics, UCLA, March 2008
- 9) Invited speaker at Department of Environmental Health, University of Washington, April 2008.
- 10) Invited speaker at National SIDS Foundation annual meeting, March, 2009
- 11) Invited speaker at UCSF Residence Program, April, 2009
- 12) Invited speaker to be completed in 2010: the annual International Symposium on Environment and Hormones, New Orleans, October, 2010
- 13) Invited speaker: 50<sup>th</sup> Anniversary of Teratology Society, June 2010
- 14) Invited speaker: Dartmouth Medical School NIEHS *Children's Environmental Health and Disease Prevention Center* 2010

### **2. Presentations based on abstract submission**

- Li DK, Ferber J. Treatment Of Depression During Pregnancy And Its Effect On Infant Nicu Admission *International Society of Phamacoeidemiology Annual meeting*, Barcelona,

Spain, 2012

- Li DK, Chen H, Odouli R. Maternal exposure to high magnetic fields during pregnancy and the risk of asthma in offspring. *International Society of Environmental Epidemiology Annual meeting*, Barcelona, Spain, 2011
- Li DK, Chen H, Odouli R. Maternal exposure to high magnetic fields during pregnancy and the risk of asthma in offspring. *Society for Perinatal and Pediatric Research (SPER) annual meeting*, Montreal, Canada, 2011
- Li DK, Zhou Z, Miao M, He Y, Wang J, Ferber JR, Herrinton LJ, Gao E, Yuan W. Urine Bisphenol-A (BPA) Level in Relation to Semen Quality. *International Society of Environmental Epidemiology annual meeting*, Seoul, South Korea, 2010
- Li DK, Zhou Z, Miao M, He Y, Wang J, Ferber JR, Herrinton LJ, Gao E, Yuan W. Urine Bisphenol-A (BPA) Level in Relation to Semen Quality. *Society for Perinatal and Pediatric Research (SPER) annual meeting*, Seattle, 2010
- Li D.K., MD, PhD, ZhiJun Zhou, MD, PhD, Maohua Miao, PhD, Yonghua He, PhD, Dandan Qing<sup>3</sup>, PhD, Tongjun Wu, MD, JinTao Wang, PhD, Xiaoping Weng, PhD, Jeannette Ferber<sup>1</sup>, MPH, Lisa J. Herrinton, PhD, Qianxi Zhu, MD, ErSheng Gao MD, MPH, Wei Yuan, MD, PhD: *Urine Bisphenol-A Concentration and its Effect on the Risk of Male Sexual Dysfunction*. International Society of Environmental Epidemiology Annual meeting, Dublin, Ireland, 2009,
- Li DK, Bei Yan, Zheng Li, Ersheng Gao, MD, Maohua Miao, Dongming Gong, MD, XiaoPing Weng, Wei Yuan. Exposure to High Levels of Magnetic Fields and the Risk of Poor Sperm Quality. Later Breaker at the annual meeting of Society for Epidemiologic Research (SER), 2008
- Li DK, Weng X, Liu L, Odouli R. Caffeine intake during pregnancy and the risk of miscarriage: a population-based cohort study. Plenary presentation at Society for Pediatric and Perinatal Epidemiological Research (SPER), Seattle, 2006.
- Li DK, Liu L, Odouli R. Prenatal depression and its effect on the risk of preterm delivery. Plenary presentation at Society for Pediatric and Perinatal Epidemiological Research (SPER), Toronto, Canada, 2005.
- Li DK, Liu L, Odouli R. Prenatal Depression and its effect on the risk of low birthweight. Poster presentation at Society for Epidemiological Research (SER), Toronto, Canada, 2005.
- Li DK, Odouli R, Liu L, Vinson M, Trachtenberg E. Transmission of parentally shared human leukocyte antigen alleles and the risk of preterm delivery. Plenary presentation at Society for Pediatric and Perinatal Epidemiological Research (SPER), and poster presentation at Society for Epidemiological Research (SER), Salt Lake City, Utah, 2004.
- Li DK, Willinger M, Petitti DB, Odouli R, Vu H, Liu L, Hoffman HJ. Use of a Pacifier and the Risk of Sudden Infant Death Syndrome (SIDS). Plenary presentation at Society for Pediatric and Perinatal Epidemiological Research (SPER), and poster presentation at Society for Epidemiological Research (SER), Atlanta, Georgia, 2003.
- Li DK, Gao E, Wu J, Zhang Z, Liu L, Herrinton LJ. Induced Abortion (IA) and Breast Cancer Risk: A Population-based Study in China. Spotlight presentation at Society for Epidemiological Research (SER), Atlanta, Georgia, 2003.
- Li DK, Liu L, Odouli R. Prenatal NSAID use and the risk of miscarriage. *BAY AREA CLINICAL*

*RESEARCH SYMPOSIUM. 2003*

- Li DK, et al. Prenatal NSAID use and the risk of miscarriage. Plenary presentation at Society for Pediatric and Perinatal Epidemiological Research (**SPER**), and Spot Light presentation at Society for Epidemiological Research (**SER**), Palm Spring, California, 2002.
- Li DK, et al. Periconceptional Multivitamin Use and the Risk of Spontaneous Abortion. Oral presentation at Society for Pediatric Epidemiologic Research and Poster presentation at Society for Epidemiologic Research, Toronto, Canada, 2001
- Li DK et al. Hot Tub or Jacuzzi Use during Pregnancy and the Risk of Miscarriage. Poster presentation at Society for Epidemiologic Research and Society for Pediatric Epidemiologic Research, Toronto, Canada, 2001
- Li DK. A population-based prospective cohort study of personal exposure to magnetic fields during pregnancy and the risk of spontaneous abortion. Oral presentation at Society for Epidemiologic Research. Seattle, 2000
- Li DK. A population-based prospective cohort study of personal exposure to magnetic fields during pregnancy and the risk of spontaneous abortion. Oral presentation at Society for Pediatric and Prenatal Epidemiologic Research. Seattle, 2000
- Li DK. Factors associated with a woman's decision to participate prenatal screen. Poster presentation at Society for Pediatric and Prenatal Epidemiologic Research. Seattle, 2000.
- Li DK. Factors associated with a woman's decision to participate prenatal screen. Poster presentation at Society for Epidemiologic Research. Seattle, 2000.
- Li DK. Changing paternity and the risk of preeclampsia in the subsequent pregnancy. Society for Pediatric and Prenatal Epidemiologic Research. Chicago, June, 1998.
- Li DK. Changing paternity and the risk of preeclampsia in the subsequent pregnancy. Society for Epidemiologic Research. Chicago, June, 1998.
- Li DK. Changing paternity and the risk of preterm delivery in the subsequent pregnancy. Society for Pediatric and Prenatal Epidemiologic Research. Chicago, June, 1998.
- Li DK. Changing paternity and the risk of preterm delivery in the subsequent pregnancy. Society for Epidemiologic Research. Chicago, June, 1998.
- Li DK. Maternal preeclampsia during pregnancy and the risk of sudden infant death syndrome in offspring. The 5th International SIDS Conference. Rouen, France, April, 1998.
- Li DK, Wi S. *Recurrence of SIDS and infant deaths due to other causes* at VIIIth International Congress on Sudden Infant Death Syndrome, Barcelona, Spain, May, 1997.
- Li DK, Wi S. *Maternal placental abnormality and the risk of sudden infant death syndrome* at VIIIth International Congress on Sudden Infant Death Syndrome, Barcelona, Spain, May, 1997.
- Li DK. *Maternal history of Subfertility and the risk of congenital urinary tract anomalies in offspring* at 37th Teratology Society Annual Meeting, Palm Beach, Florida, June, 1997.
- Li DK, Checkoway H, Mueller BA. Electric blanket use during pregnancy in relation to the risk of congenital urinary tract anomalies among women with a history of subfertility. 1995 Teratology Society Annual Meeting. Newport Beach, California, June 25-28, 1995.
- Li DK, Mueller BA, Hickok DE, Daling JR, Fantel AG, Weiss NS. Maternal smoking during pregnancy in relation to the risk of congenital urinary tract anomalies. 1994 Teratology Society Annual Meeting. Las Croabas, Puerto Rico, June 24-27, 1994.



- Li DK, Daling JR, Hickok DE, Mueller BA, Fantel AG, Weiss NS. Oral contraceptive use after conception in relation to the risk of congenital urinary tract anomalies. Society for Epidemiologic Research 26th Annual Meeting. Keystone, Colorado, June 16-18, 1993.
- Li DK, Daling JR, Hickok DE, Mueller BA, Fantel AG, Weiss NS. Periconceptional multivitamin use in relation to the risk of congenital urinary tract anomalies. 1993 Teratology Society Annual Meeting. Tucson, Arizona, June 26-July 1, 1993.
- Li DK. The effect of prior fetal loss on the risk of SIDS associated with male offspring. Society for Epidemiologic Research 25th Annual Meeting. Minneapolis, Minnesota, June 10-13, 1992.
- Li DK, Daling JR. Biracial parentage in relation to the risk of SIDS. Society for Epidemiologic Research 24th Annual Meeting. Buffalo, New York, June 12-14, 1991.
- Li DK. The effect of parity on the relationship between a history of spontaneous fetal loss and the risk of SIDS in offspring. American Public Health Association 119th Annual Meeting. Atlanta, Georgia, November 10-14, 1991.
- Li DK, Spiers PS. Spontaneous abortion and reduced risk of SIDS in subsequent offspring. National Perinatal Association 1990 Annual Clinical Conference & Exposition in New Orleans.
- Li DK, Daling JR. Maternal smoking, low birthweight and race in relation to sudden infant death syndrome. 118 APHA Annual Meeting in New York City in October, 1990.
- Li DK. Risk factors for birth defects among Chinese children. The Teratology Society 13th Annual Meeting, Victoria, BC, Canada, 1990.
- Li DK, Daling JR, Weiss NS, Chu J, et al. Prior condom use and tubal pregnancy. 117th APHA Annual Meeting in Chicago in October, 1989.
- Li DK, Ni HY, Daling JR, Schwartz S. Secular change of birthweight among Southeast Asian refugees after immigration into the United States. 116th APHA Annual Meeting in Boston in Nov., 1988.
- Li DK, Xue SZ, Gu XQ, et al. An epidemiologic study on the effect of MATDA on pregnancy outcomes. Presented in the Second Symposium of Chinese Environmental Mutagen Society, Wuhan, China, Nov. 1984.

### **3. SERVICE**

#### **A. Service to the professional community**

- 1) Committee member of Public Policy, American College of Epidemiology 2004-08
- 2) Associate Editor/Guest Editor, American Journal of Epidemiology, 1999-present
- 3) Member of the NIH NICHD Special Review Panel for Program Center grant: Perinatal Emphasis Research Centers, 1994
- 4) Member of the NIOSH Review Committee for OH-00-006 (R21) Program, 2000.
- 5) Member of the NIOSH Special Emphasis Panel Review for RFA (Endocrine Disruptors: Epidemiological Approaches), 2001.
- 6) Invited moderator for a Spotlight session on "Search for New Horizon to Improve Pregnancy outcomes" at 2003 annual meeting of Society for Epidemiological Research.

- 7) Invited by the Department of Epidemiology, School of Public Health and Community Medicine, University of Washington, to evaluate promotion of a faculty member to full professor. August, 2003.
- 8) Served as a reviewer for AJE, BMJ, Pediatric and Prenatal Epidemiology,
- 9) Invited by California Public Utility Commission to evaluate the legislative changes regarding EMF exposure requirement for construction of public schools.
- 10) Invited editorial board member of Open Epidemiology Journal
- 11) NIEHS study section, 2009
- 12) Member of Adversary Committee for Children's Environmental Health and Disease Prevention Research Center at Dartmouth, September, 2010

## **B. Service to governmental agencies**

- 1) U.S. National Committee for CODATA, Board on International Scientific Organizations, U.S. National Academy of Sciences AND Chinese National Committee for CODATA, International Cooperation Bureau, Chinese Academy of Sciences: **Workshop on U.S.-China Collaboration on Health and Biomedical Research November, 2007**
- 2) U.S. National Committee for CODATA, Board on International Scientific Organizations, U.S. National Academy of Sciences, National Institutes of Health, AND Chinese National Committee for CODATA, International Cooperation Bureau, (f) Chinese Academy of Sciences: **U.S.-China Roundtable on Collaboration of Biomedical Research, November, 2007**
- 3) California Council on Science and Technology: **Evaluation of the Safety Issues of Smart Meter, October 2010**

## **Manuscript review:**

Epidemiology  
 American Journal of Public Health  
 JAMA,  
 BMJ  
 European Journal of Epidemiology.  
 Pediatric and Prenatal Epidemiology  
 Journal of Pharmacoepidemiology  
 Pediatrics  
 Human Reproduction  
 American Journal of Epidemiology

## **4. TEACHING:**

- a. Lecture in the Department of Health Service, Stanford University.
- b. Supervise a doctoral student on dissertation at Johns Hopkins University
- c. Supervise students on their theses/dissertation at UC Berkeley

- d. Member of a committee for doctoral students at UC Berkeley
- e. Member of a committee for doctoral students at UCLA

## **5. EXAMPLES OF RECENT PUBLICATIONS THAT RECEIVED WIDE MEDIA COVERAGE**

- a. Maternal exposure to high magnetic fields and the risk of asthma in offspring (2011)
- b. Use of ACE inhibitors in pregnancy and the risk of birth defects (2011)
- c. Urine BPA level and its adverse effect on semen quality
- d. BPA exposure and male sexual dysfunction
- e. Caffeine intake during pregnancy and the risk of miscarriage
- f. Use of a Fan and the Risk of SIDS
- g. Depression during pregnancy and the Risk of Preterm Delivery

### **Partial Listing of news coverage of study findings authored by Dr. De-Kun Li**

#### **National:**

New York Times  
Wall Street Journal  
Washington Post  
Newsweek  
L.A Times  
All major Networks (ABC, NBC, CBS, Fox)  
CNN  
Associated Press  
National Public Ratio (NPR)  
Forbes  
Science News  
Scientific America  
Chicago Tribute  
Bloomberg News  
Reuters  
Univision TV  
Newsday  
Yahoo! News  
Excite.com  
NewsAlert.com  
EurekAlert.com  
ChamberBiz  
STLToday.com (St. Louis newspaper's site)

MyrtleBeachOnline.com  
SanLuisObispo.com  
HealthDay.com  
Doctor's Guide  
*WbMD*

**International Press:**

BBC News  
ITV (British TV Network, competes with BBC)  
Daily Record (Glasgow, Scotland)  
The Age (Australia)  
The Scotsman (Edinburgh, Scotland)  
Edinburgh Evening News (Scotland)  
The Independent Online (South Africa)  
ABC News Online (Australia)  
Brazilian newspaper: CORREIO BRAZILIENSE

**Local media outlets:**

San Francisco Chronicle  
San Jose Mercury News  
KQED  
KGO  
KBCS  
Seattle Times and Intelligencer  
Aberdeen American News (South Dakota)  
Philadelphia Inquirer  
Lexington (KY) Herald Leader  
Connecticut Post  
Tallahassee Democrat  
Columbus (GA) Ledger-Enquirer  
Wilkes-Barre (PA) Times-Leader  
KIRO-TV