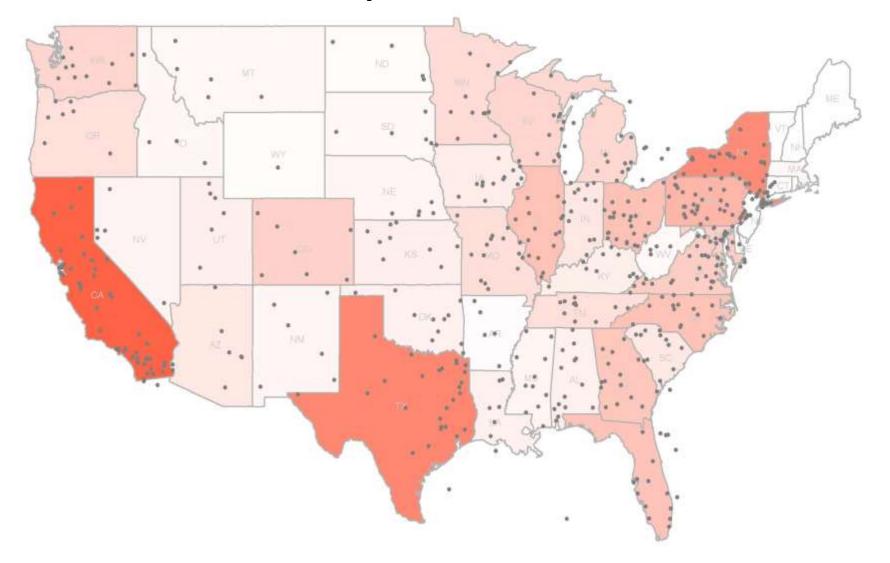
Naomi E. Stotland MD
Associate Professor
Department of Obstetrics,
Gynecology, and Reproductive
Sciences
University of California, San
Francisco
stotlandn@obgyn.ucsf.edu

Program on Reproductive Health and the Environment



Respondents



MIXED METHODS STUDY



Counseling Patients on Preventing Prenatal Environmental Exposures - A Mixed-Methods Study of Obstetricians

Naomi E. Stotland , Patrice Sutton, Jessica Trowbridge, Dylan S. Atchley, Jeanne Conry, Leonardo Trasande, Barbara Gerbert, Annemarie Charlesworth, Tracey J. Woodruff

Published: June 25, 2014 • DOI: 10.1371/journal.pone.0098771

Objective

Describe the attitudes, beliefs, and practices of U.S. obstetricians on the topic of prenatal environmental exposures.

Study Design

A national online survey of American Congress of Obstetricians and Gynecologists (ACOG) fellows and 3 focus groups of obstetricians.

Results

We received 2,514 eligible survey responses, for a response rate of 14%. The majority (78%) of obstetricians agreed that they can reduce patient exposures to environmental health hazards by counseling patients; but 50% reported that they rarely take an environmental health history; less than 20% reported routinely asking about environmental exposures commonly found in pregnant women in the U.S.; and only 1 in 15 reported any training on the topic. Barriers to counseling included: a lack of knowledge of and uncertainty about the evidence; concerns that patients lack the capacity to reduce harmful exposures; and fear of causing anxiety among patients.

Conclusion

U.S. obstetricians in our study recognized the potential impact of the environment on reproductive health, and the role that physicians could play in prevention, but reported numerous barriers to counseling patients. Medical education and training, evidence-based guidelines, and tools for communicating risks to patients are needed to support the clinical role in preventing environmental exposures that threaten patient health.

ACOG – quantitative survey Over 24,000 ACOG fellows emailed

2,514 completed survey



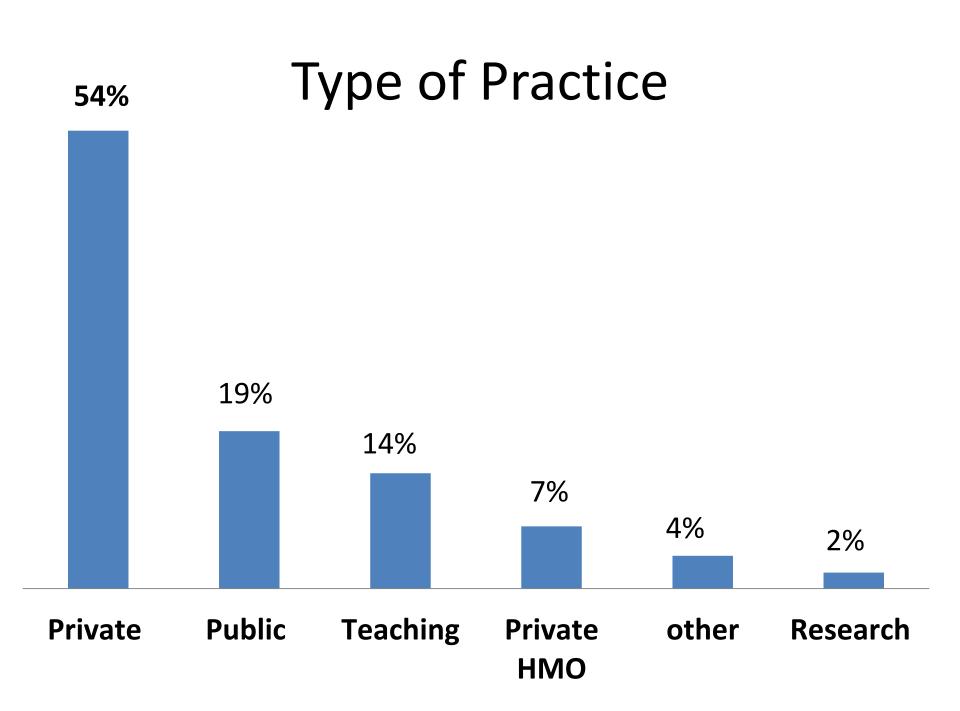
Survey

*1. Please select one answer for each of the following questions

	of little importance				of great importance	I don't know
The role of environmental exposures during pregnancy is	0	0	0	0	0	0
The role of appropriate weight gain during pregnancy is	0	0	0	0	0	0
The role of cigarette smoking during pregnancy is	0	0	0	0	0	0
Assessing environmental exposures through history- taking in prenatal care is	0	0	0	0	0	0





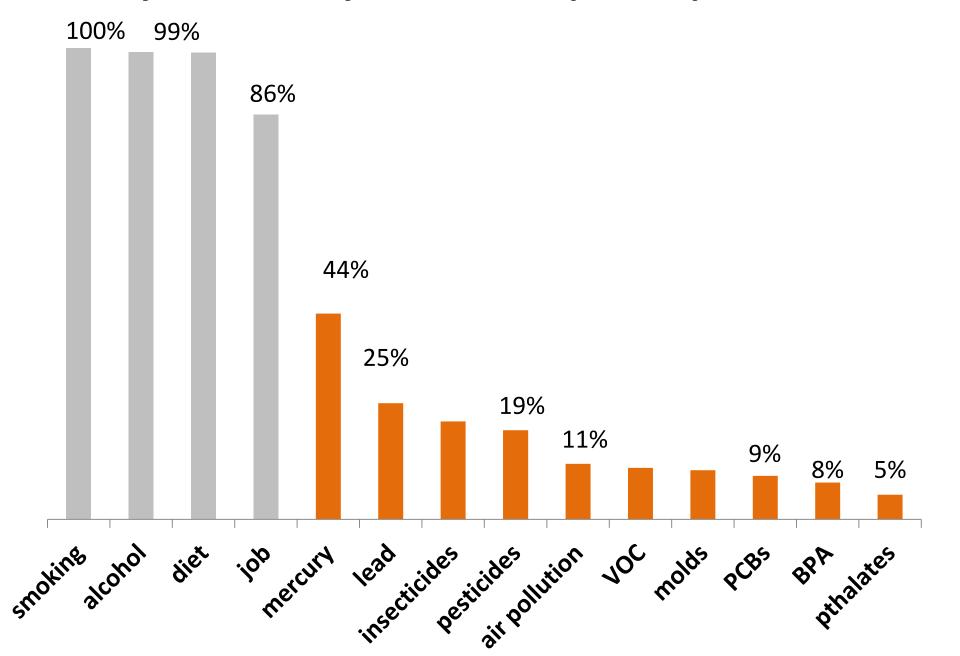


Attitudes

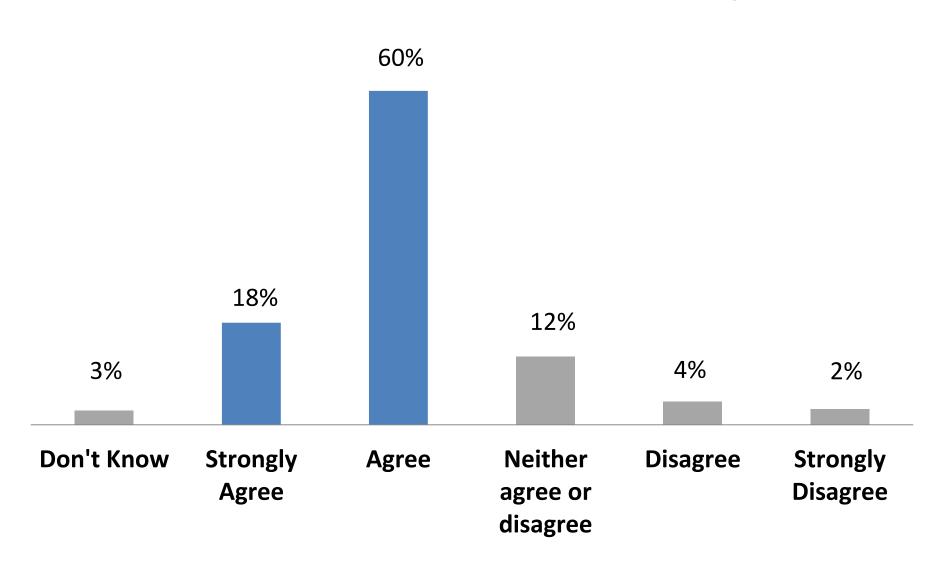
How confident	you are in	taking a	history	during	prenatal	care on:
----------------------	------------	----------	---------	--------	----------	----------

	Mean
Cigarrette Smoking	4.9 (±0.4)
Lead exposure	3.1 (±1.4)
Pesticide exposure	2.9 (±1.4)
Mercury exposure	3.1 (±1.4)
BPA exposure	2.1 (±1.3)

Do you routinely discuss as a part of prenatal care?

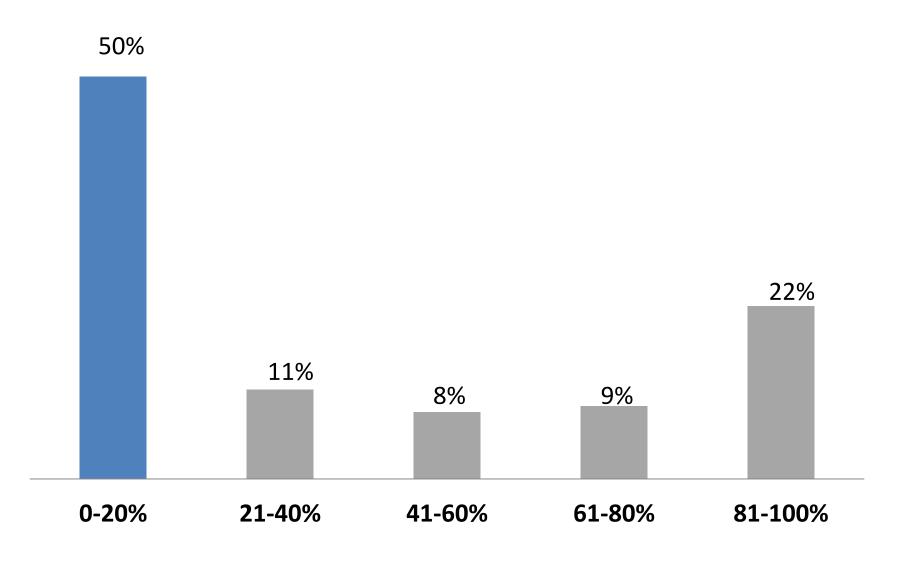


Obstetricians can reduce patient exposure?

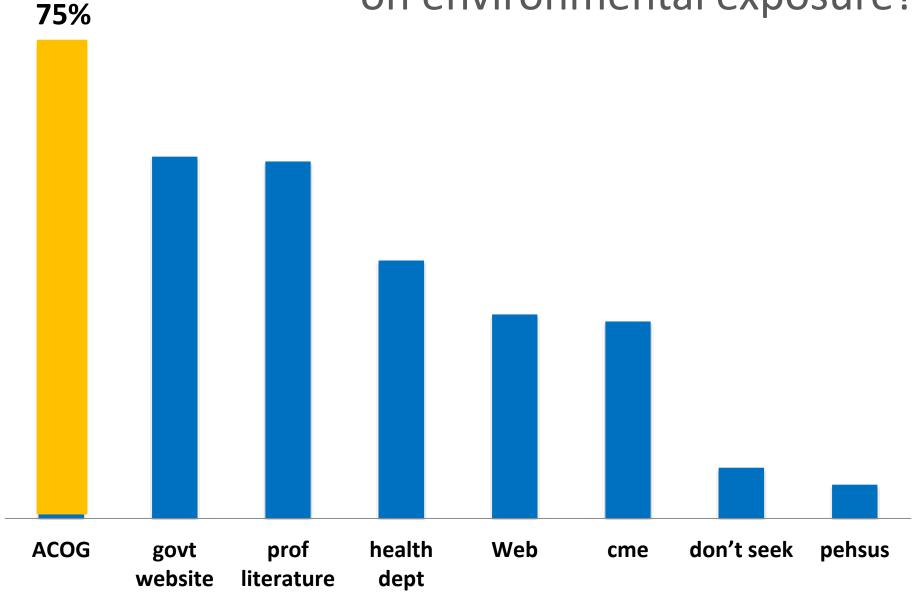


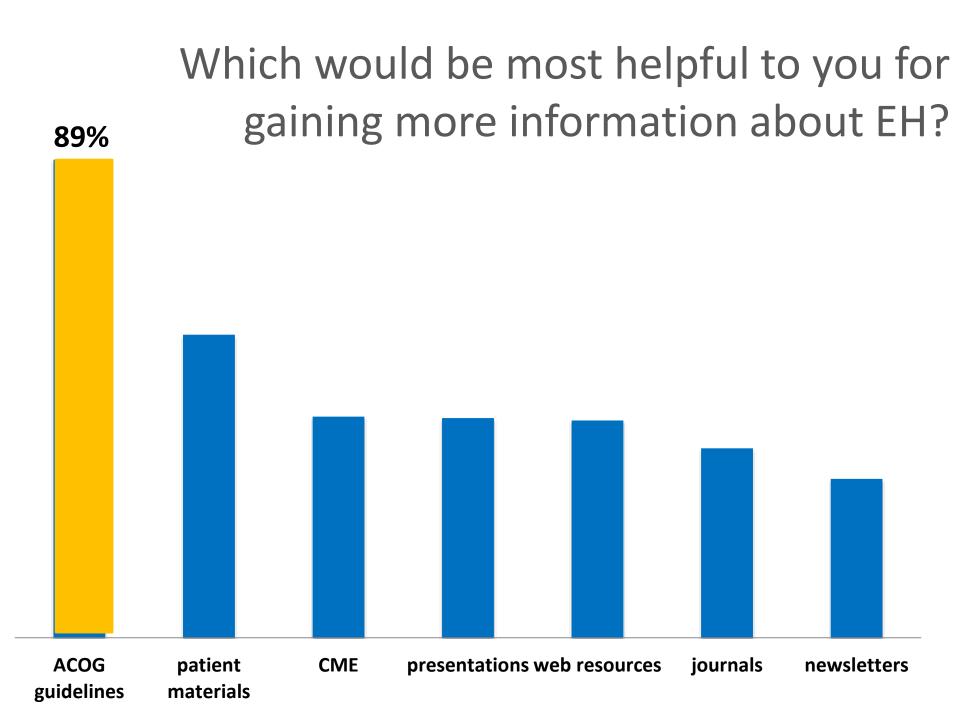
Yet...

What percentage of the time do you take an environmental health history?



What sources do you trust for information on environmental exposure?





"it's a little scary barrel to open because I don't have an answer."

(Female OB/Gyn)

"Pandora's Box"



"bigger fish to fry"

"I mean a lot of the time when you're talking to the person and they're sitting in the room and, you know, they eat at Popeye's four times a week, you have bigger fish to fry than some [environmental exposures]... we don't have enough information, you know?"

(Female OB/Gyn)



"If I freak out like, 'Whoa, look at that kid who's drinking Coke out of a BPA bottle,' you know, it's like which one of those things should I deal with, right?" (Female OB/Gyn)

"bigger fish to fry"

Uncertainty

"I think you have to know what's fact and what's fiction. You know, there has to be enough data about something to concretely say, "Look, this is bad for you because it causes this, that and the other in your pregnancy." And there's not that much concrete data about certain exposures. And so in order to avoid causing anxiety or stress or hand-waving, you don't want to bring something up unless you know for sure it's a problem. That's a huge barrier, just not knowing ourselves what's important."

STRATEGIES

All That Matters





About Info for Families Research Clinical Practice Policy News & Events

Publications

Information for Families

Resources to help your family reduce their environmental exposures



Clinical Practice

Resources for health care professionals to promote environmental health



- Matters
- · Pesticides Matter: Steps to Reduce Exposure and Protect Your Health
- What to Eat: A Guide to Your Daily Food Choices

To get out more information about the tips in these brochures, visit our Family Resources page.

CLINICAL OPINION

OBSTETRICS

Toxic environmental chemicals: the role of reproductive health professionals in preventing harmful exposures

Patrice Sutton, MPH; Tracey J. Woodruff, PhD, MPH; Joanne Perron, MD; Naomi Stotland, MD; Jeanne A. Conry, MD, PhD; Mark D. Miller, MD, MPH; Linda C. Giudice, MD, PhD

A mong the US population, current indicators of reproductive adversity include a decline in the age of the onset of puberty, declines in fertility and fecundity, increased rates of poor birth outcomes (such as babies born prematurely high, increased rates of small for gestational age infants, increased rates of certain birth defects, and increased rates of childhood diseases (such as autism, certain types of cancer, and obesity had declines in life expectancy

Every pregnant woman in the United States is exposed to many and varied environmental chemicals. Rapidly accumulating scientific evidence documents that widespread exposure to environmental chemicals at levels that are encountered in daily life can impact reproductive and developmental health adversely. Preconception and prenatal exposure to environmental chemicals are of particular importance because they may have a profound and lasting impact on health across the life course. Thus, prevention of developmental exposures to environmental chemicals would benefit greatly from the active participation of reproductive health professionals in clinical and policy arenas.

Key words: environmental chemical, reproductive environmental health, toxic chemical

Women's Health Review A Clinical Update in Obstetrics-Gynecology

Philip J. Di Saia Gautam Chaudhuri Linda C. Giudice Thomas R. Moore Manuel Porto Lloyd H. Smith

Questions?





