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Global Ob-Gyn Group Urges Greater Efforts to Prevent Toxic Chemical Exposure

Reproductive Health Professionals Say Links Between Prenatal Exposure to Chemicals and Poor Health Outcomes Are Increasingly Evident

Dramatic increases in exposure to toxic chemicals in the last four decades is threatening human reproduction and health, according to the International Federation of Gynecology and Obstetrics (FIGO), the first global reproductive health organization to take a stand on human exposure to toxic chemicals.

FIGO, which represents ob-gyns from 125 countries/territories, published the opinion in the *International Journal of Gynecology and Obstetrics* on October 1st, just prior to its XXI World Congress in Vancouver, BC, where more than 7,000 clinicians and scientists will explore global trends in women's health issues Oct. 4-9.

"We are drowning our world in untested and unsafe chemicals and the price we are paying in terms of our reproductive health is of serious concern," said Gian Carlo Di Renzo, MD, PhD, Honorary Secretary of FIGO and lead author of the FIGO opinion. According to Di Renzo, reproductive health professionals "witness first-hand the increasing numbers of health problems facing their patients, and preventing exposure to toxic chemicals can reduce this burden on women, children, and families around the world."

Miscarriage and still birth, impaired fetal growth, congenital malformations, impaired or reduced neurodevelopment and cognitive function, and an increase in cancer, attention problems, ADHD behaviors, and hyperactivity are among the list of poor health outcomes linked to chemicals such as pesticides, air pollutants, plastics, solvents,¹ and more, according to the FIGO opinion, written by a team of ob-gyns and scientists from the major global, US, UK, and Canadian health professional societies and the University of California, San Francisco.

"What FIGO is saying is that physicians need to do more than simply advise patients about the health risks of chemical exposure," said Jeanne A. Conry, MD, PhD, a co-author of the FIGO opinion and past

¹ These are only a few examples of toxic environmental chemicals. There are 70,000 to 100,000 chemicals in global commerce; approximately 4,800 "high-production volume chemicals" constitute the vast majority in global production. References: **OECD Environmental Outlook to 2030**. Paris, France: Organisation for Economic Co-operation and Development; 2008. **The European Environment, State and Outlook 2010: Assessment of Global Megatrends**, Copenhagen, Denmark: European Environment Agency; 2010:80-91.

president of the American College of Obstetricians and Gynecologists which issued an opinion on chemicals and reproductive health in 2013. “We need to advocate for policies that will protect our patients and communities from the dangers of involuntary exposure to toxic chemicals.”

Chemical manufacturing is expected to grow fastest in developing countries in the next five years, according to FIGO. In the U.S. alone, more than 30,000 pounds of chemicals per person are manufactured or imported and yet the vast majority of these chemicals have not been tested. Chemicals travel the globe via international trade agreements such as the Transatlantic Trade and Investment Partnership, which is being negotiated between the European Union and the United States. Environmental and health groups have criticized the proposed agreement for weakening controls and regulations designed to protect communities from toxic chemicals.

“Exposure to chemicals in the air, food and water supplies disproportionately affect poor people,” said Linda Giudice, MD, PhD, MSc, a FIGO opinion co-author, Past President of the American Society for Reproductive Medicine (ASRM), and chair of the UCSF’s Department of Obstetrics, Gynecology, and Reproductive Sciences. “In developing countries, lower respiratory infections are more than twice as likely to be caused by chemical exposures than in developed countries.”

Exposure to toxic environmental chemicals is linked to millions of deaths and costs billions of dollars every year, according to the FIGO opinion, which cites the following examples:

- Seven million people die each year because of exposure to indoor and outdoor air pollution;
- Pesticide poisonings of farmworkers in sub-Saharan Africa is estimated to cost \$66 billion between 2005-2020;
- Health care and other costs from exposure to endocrine disrupting chemicals in Europe are estimated to be at a minimum of 157 billion Euros a year; and,
- The cost of childhood diseases related to environmental toxins and pollutants in air, food, water, soil and in homes and neighborhoods was calculated to be \$76.6 billion in 2008 in the United States.

“Given accumulating evidence of adverse health impacts related to toxic chemicals, including the potential for inter-generational harm, FIGO has wisely proposed a series of recommendations that health professionals can do to reduce the burden of unsafe chemicals on patients and communities,” said FIGO President Professor Sir Sabaratnam Arulkumaran, who is also past president of the British Medical Association.

FIGO proposes physicians, midwives, and other reproductive health professionals advocate for policies to prevent exposure to toxic environmental chemicals; work to ensure a healthy food system for all; make environmental health part of health care; and, champion environmental justice.

The FIGO opinion was authored by an international group of physicians and scientists from the American College of Obstetricians and Gynecologists, American Society for Reproductive Medicine, International Federation of Gynecology and Obstetrics, Royal College of Obstetricians and Gynaecologists, Society of Obstetricians and Gynaecologists of Canada, UCSF’s Program on Reproductive Health and the

Environment, and the World Health Organization. These and numerous other reproductive health organizations have either endorsed or formally supported FIGO's opinion.

The FIGO opinion has also been applauded by health and advocacy groups including the Health and Environment Alliance (HEAL), Women in Europe for a Common Future (WECEF), Healthcare Without Harm, and Physicians for Social Responsibility.

The International Federation of Gynecology and Obstetrics (FIGO) is a non-profit organization that brings together obstetrical and gynecological associations from 125 countries/territories worldwide. It is dedicated to the improvement of women's health and rights and to the reduction of disparities in healthcare available to women and newborns, as well as to advancing the science and practice of obstetrics and gynecology. Based in London, the organization hosts a triennial World Congress that draws more than 7,000 women's health scientists, clinicians, and other allied health professionals to present the latest science and best clinical practice in obstetrics and gynecology. This year's XXI World Congress will be held in Vancouver.