



Study Session

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Milwaukie City Council

COUNCIL STUDY SESSION

Ledding Library, 10660 SE 21st Ave
& Zoom Video Conference (www.milwaukieoregon.gov)

REVISED AGENDA**DECEMBER 13, 2022****(Revised December 9, 2022)**

Council will hold this meeting in-person and through video conference. The public may attend the meeting at the library or by joining the Zoom webinar. The meeting will be recorded and broadcast later on the city's [YouTube channel](#).

To participate in this meeting by phone dial 1-253-215-8782 and enter Webinar ID 837 5111 0754 and Passcode: 107967. To raise hand by phone dial *9.

Written comments may be submitted by email to ocr@milwaukieoregon.gov. Council may take limited verbal comments. **For Zoom webinar login information** visit <https://www.milwaukieoregon.gov/citycouncil/city-council-study-session-136>.

Note: agenda item times are estimates and are subject to change.

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- 1. Providence Milwaukie Update (5:15 p.m.)** **1**
Presenters: Renée Boutin King, Communications Senior Manager,
Providence Health & Services, and
Victor Carrasco, FACHE, CEO, Providence Milwaukie Hospital
- 2. Regional Transportation Policymaking & Current Issues Update (6:15 p.m.)**
Presenter: Kathy Hyzy, Council President
- 3. Adjourn (7:15 p.m.)**

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Executive Sessions

The City Council may meet in executive session pursuant to Oregon Revised Statute (ORS) 192.660(2); all discussions are confidential; news media representatives may attend but may not disclose any information discussed. Final decisions and actions may not be taken in executive sessions.

— COMMENTARIES —

Climate Change:

A Crisis for Family Medicine Educators

Monica DeMasi, MD | Bhargavi Chekuri, MD | Heather L. Paladine, MD, MEd | Tina Kenyon, MSW, ACSW
Fam Med. 2022;54(9):683-687.
DOI: 10.22454/FamMed.2022.827476

Article	Authors	Metrics	Comments
<p><i>This century, climate change—a fifth horseman, a new threat of a magnitude unknown to human experience—will ride across our promising landscape of public health. It will ride on a collision course with all the fits and starts of our progress, sometimes fragile, sometimes fundamental.</i>¹</p> <p>Climate change poses unparalleled and escalating risks to human health. The increasing frequency of climate-related extreme weather events, heat waves, wildfires, and droughts place unprecedented demands on unprepared health systems and health professionals. Examples like desertification, an ongoing mega-drought, and unrelenting wildfires across the Western United States are all associated with increased outpatient visits, hospitalizations, and death from cardiovascular and respiratory diseases like heart attacks, strokes, and chronic obstructive pulmonary disease (COPD).^{2,3} Globally, loss of life from injuries and disease spread related to flooding, malaria, and diarrhea is expected to increase dramatically as ocean levels rise.³ As the earth warms, we expect infectious diseases such as West Nile virus, dengue, malaria, and Valley fever to reach further north.³ Significant rise in malnutrition related to rising carbon dioxide levels, droughts, and floods are associated with increases in conflict and wars and consequent human displacement³. In addition to physical injury and illness caused by sequelae of climate change, increases in extreme weather events such as hurricanes and tornados lead to displacement, homelessness, and psychological trauma.³</p> <p>While all humans will be touched by climate change, there is no question that impacts will worsen existing health, gender, and intergenerational inequities.³ Climate change already disproportionately impacts low-income countries that have contributed the least to climate change and people of color living in poverty in high-income countries.^{3,4} Individuals with unique health needs such as children, women, other sexual and gender minorities, pregnant people, older people, and those with chronic diseases will suffer and die more from heat, unhealthy air quality, malnutrition, and other climate sensitive environmental hazards.^{3,4} This is relevant as family physicians care for the full life span and are more likely than other physicians to work with underserved populations.</p> <p>Climate change also damages our capacity to deliver health care.^{3,4} Extreme climate events impact staff, transportation, utilities, facilities, and supply chains, whose strengths and vulnerabilities have never been more apparent than during the COVID-19 pandemic.^{3,4} Take for example Hurricane Laura, which caused property destruction, loss of power and access to safe drinking water, and closure of essential services, all leading to mortality and morbidity in Louisiana. Notably, an industrial chemical plant caught fire during the hurricane and was one of many industrial facilities that released millions of toxic emissions contributing to environmental degradation and</p>			

pollution and worsening existing environmental injustice. A health system already strained by an ongoing pandemic was further impaired when 16 hospitals were forced to evacuate and all temporary COVID-19 testing sites were temporarily shut down. A subsequent heat wave in the state was associated with additional mortality and morbidity due to loss of power, damages to essential infrastructure, and increased heat exposure for outdoor workers and other high-risk groups like older individuals.⁵

Addressing Climate Change Is Integral to Practicing Good Family Medicine and “in Our Lane.”

The World Health Organization identified climate change as the greatest threat to human health in the 21st century in 2009. Since then, the American Medical Association,⁶ American Academy of Family Physicians,⁷ American College of Physicians,⁸ American College of Obstetricians and Gynecologists⁹ and American Academy of Pediatrics¹⁰ have all advocated for protecting human health by mitigating climate change in legislation, increasing medical education around this topic, and increasing support for health professionals and health systems to adapt and become more resilient to climate change. When surveyed, the vast majority of family physicians in the United States feel that climate change is relevant to direct patient care and more than half report feeling their own patients are already significantly harmed by climate change.^{11,12} The most trusted source of information on environmental health are family physicians.¹² As health providers focused on preventive medicine and advancing health equity, family physicians must better understand effects of climate change on our communities so we can prevent and respond to likely consequences.^{13,14} As clinicians who care for children, family physicians have an even greater moral responsibility to address climate change because more than 88% of the harms of climate change are estimated to be felt by children under the age of 5 years.¹⁰ Most importantly, family physicians can lead at the intersection of climate change and health equity. Family doctors are experts in leveraging long-term relationships with our communities, while utilizing storytelling and interprofessional care to effectively communicate and advocate about health risks as well as lead individual and social behavior change and systems transformations.¹⁵

A Call to Action

Table 1: Climate Change and Health Resources for Family Medicine Educators

General Resources	Description
Medical Society Consortium on Climate and Health	Webinars
Project Echo	Webinars
Global Consortium on Climate and Health Education	Courses, core competencies
Climate Resources for Health Education	Case studies, slide decks
University of Minnesota	Slide decks
Global Climate Change and Human Health: Science to Practice (Lemery et al)	Textbook
Planetary Health, Protecting Nature to Protect Ourselves (Myers et al)	Textbook
Undergraduate Medical Education	
Planetary Health Report Card	Needs assessment
MS4SF's Guide to Climate and Health Curriculum Reform in Medical Schools	Sample syllabi
Graduate Medical Education	
University of Colorado National Climate and Health Science Policy Fellowship	1-year postgraduate training program
Medical Society Consortium on Climate and Health and National Medical Association's Climate and Health Equity Fellowship	10-month postgraduate training program
Continuing Medical Education	
University of Colorado Diploma in Climate Medicine	300-hour diploma consisting of five separate certificates for health professionals
Yale University Climate Change and Health Certificate	18-week online certificate for professionals from all sectors
Health Care Sustainability	
Healthcare Without Harm	Technical support in sustainability
Practice Greenhealth	Technical support in sustainability
My Green Doctor	Technical support in sustainability

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Family Physicians Must Mitigate the Impact of Climate Change on our Patients and Communities on Many Levels

Education. Family medicine educators have a role to play in preventing and mitigating the health impacts of climate change, both in our actions now and in preparing future family physicians to practice in a changing world.¹³ However, medical schools¹⁶ and residencies^{17,18} in general are not teaching about climate change. As of 2019, only 16% of medical schools have climate change in their curricula.¹⁶ As educators, we can lead and advocate for climate change education at our institutions. The Accreditation Council for Graduate Medical Education (ACGME) and Association of American Medical Colleges (AAMC) actively promote emergency preparedness and health equity, both inextricably interwoven with climate change. The AAMC states on its website, "All physicians, whether in training or in practice for many years, have to be able to assess for, manage, and effectively treat the health effects of climate change."¹⁹ As family medicine educators, we are poised to provide climate change continuing education to interprofessional care teams within our health systems. We should integrate climate change subject matter into our lectures and curricula

for medical students, residents, and fellows.²⁰ The Planetary Health Report Card serves as an excellent needs assessment.²¹ It provides measurable metrics with which medical schools can track their progress on integrating climate change and health education. The Global Consortium on Climate Change and Health Education,²² Project Echo,²³ Climate Psychiatry Alliance²⁴ and the Medical Society Consortium on Climate and Health²⁵ all provide readily available learning competencies, educational webinars, and sample course syllabi which can be adapted and used by individual programs. Family medicine educators can role model climate change awareness in patient care and teach individual or small groups of students about climate change. Postgraduate fellowships in climate change and health provide opportunities for learners wanting to develop further expertise.^{26,27} Faculty and leadership development in climate change and health is crucial to modernizing the academic family medicine landscape. Resources such as University of Colorado's Diploma and Certificates in Climate Medicine²⁸ and Yale's Climate Change and Health Certificate²⁹ are available. Lastly, family medicine educators should participate in and advocate for primary care driven scholarship and research on how to decrease climate change impacts on public health.

Patient Care. We should address climate change in our interactions with individual patients at every opportunity.¹⁴ We should learn about local environmental health risks to our patients and subsequently provide anticipatory guidance about how to manage them. For example, if you are caring for an elderly patient with chronic obstructive pulmonary disease in an area that frequently experiences wildfires, you might inform your patient about the benefits of staying inside on smoky days. Furthermore, you might leverage social work programs to help them get air conditioners with filters and discuss when it would be appropriate for them to contact the office. During our annual visits and well-child checks, we can work harder and more effectively to promote plant-forward foods to our patients as this serves as one of the most powerful forms of climate action that improves individual and planetary health simultaneously.

Practice Transformation. We should change our clinics and health systems to be proactive in mitigating and adapting to climate change. The American health sector alone contributes to 7%-10% of total US greenhouse gas emissions.³⁰ One study found that pollution from the health sector is estimated to cause health damages on the same order of magnitude as preventable medical errors.³⁰ Within this context, decarbonizing the health sector has been framed as a patient safety issue³⁰ and in line with family medicine's core principles of do no harm and preventive medicine. Strong models and roadmaps for greening our clinics and hospital systems exist, such as Health Care Without Harm's Global Road Map for Health Care Decarbonization³¹ and Practice Greenhealth's Climate Impact Checkup tool.³² These can be leveraged to lead innovative quality improvement projects focused on reducing the harms created by our workplaces. The COVID-19 pandemic also provides valuable lessons about sustainability. While waste from personal protective equipment (PPE), test kits, and vaccines have overwhelmed health systems, the pandemic has demonstrated the financial and health benefits of pursuing sustainable solutions like eco-friendly packaging and shipping, reusable PPE, and utilizing nonburn waste treatments. We should lead research and innovation in, as well as advocate for the use of these technologies and policies. Similarly, we should advocate for strengthening and modernizing telehealth services, or having some staff work from home as these policies decrease our carbon footprint and make health systems more resilient during climate-driven disasters. Lastly, we can proactively prepare for the effects of climate change. For example, in a region with increasing heat waves, we can deploy early warning systems and distribute lists of cooling centers, or have community health workers check in on particularly vulnerable patients. By diving into climate action in our own house, the health care sector can lead other industries in building a healthier future.

Advocacy. Advocacy skills are required in the ACGME Family Medicine Milestones for resident education, and are core to the family physician's role.³³ We must be involved in local and national policy discussions that address the health of our patients and communities and protect the most vulnerable. We can encourage our organizations to divest of fossil fuel investments. We can lobby with colleagues and medical societies to help lawmakers draft new legislation. We can join or collaborate with physician organizations working on this problem such as the Medical

Society Consortium on Climate and Health, Healthcare Without Harm, EcoAmerica, or Physicians for Social Responsibility.²⁰ In addition, we should advocate for our organizations such as the Society of Teachers of Family Medicine to officially recognize climate change as an emergent priority. We should urge our institutions such as the AAMC and ACGME to require climate change education as core topics in the formation of new physicians in all specialties. In collaboration with colleagues in other branches of science, we can highlight compelling evidence of the need for policy change. We should leverage our voices as stewards of public health to advocate for change in local and national governmental policies.

There is now ample evidence that human behavior is changing our climate in ways that are having catastrophic and worsening health impacts on humanity. As family physicians and educators, we are uniquely empowered to mitigate and manage these issues. Our learners are the future of family medicine, and indeed, all medical specialties. We can and must prepare them to protect their patients from climate-sensitive environmental health risks and to act as leading change agents in climate action. As stewards of current and future community health, we and our future family doctors must act at local, institutional, and global levels to both prevent the worst impacts of climate change and to buffer our patients from what may become unavoidable.^{14,20} For more information on what you can do as a clinician and educator, consult resources such as the references cited here and websites such as the Center for Climate Change and Health (<https://climatehealthconnect.org/resources/physicians-guide-climate-change-health-equity/>) (<https://climatehealthconnect.org/resources/physicians-guide-climate-change-health-equity/>). Working together, we can make a positive difference to combat the effects of climate change on the lives of patients, families, the health care team, communities, our nation, and our world.


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