

07-09

STATEMENT OF POLICY

Climate Change

Policy

The National Association of County and City Health Officials (NACCHO) strongly urges all levels of government to collaborate with community stakeholders in preparation for and response to a changing global and local climate. Based on the interrelationships of climate and health, NACCHO urges the public health community to provide strong leadership in climate change mitigation and adaptation efforts. Because these efforts must be coordinated across sectors, the public health community is here defined as scientists, healthcare workers, public health practitioners, community health workers, and other individuals who hold professional responsibility for improving the health of populations. This responsibility includes the mandate to reduce the severity of health-related impacts of climate change, and falls under the purview of local health departments.

Local health departments, in partnership with state, tribal, territorial, and federal public health agencies, must immediately prepare for the impacts of climate change on public health. NACCHO urges public health departments to promote and participate in climate change resilience efforts, which may include (1) the incorporation of adaptation planning into land use, housing, and transportation design; (2) preparing communities for extreme and unusual environmental events; and (3) coordinating with local governments on all-hazards disaster planning. NACCHO also encourages federal, state, and non-governmental organizations to allocate adequate funding to build the increasing body of scientific evidence on the connections between climate change and health.

The impacts of climate change are likely to be complex, to vary geographically, and to affect specific populations differently. In preparing communities to adapt to a changing climate, local health departments fulfill their responsibilities to provide the 10 Essential Public Health Services. This framework can help local health departments understand why climate change is a public health issue, and how to integrate climate change resilience into existing programs.¹ NACCHO recommends that local health departments engage in the following activities to address the health impacts.

Essential Public Health Service #1: Monitor health status to identify and solve community health problems.

- Conduct risk and vulnerability assessments in collaboration with community partners. Particular attention must be given to identifying the most vulnerable populations for different hazards (e.g., extreme weather events).
- Conduct comprehensive surveillance during extreme events such as floods, heat waves, and wildfires.



Essential Public Health Service #2: Diagnose and investigate health problems and health hazards in the community.

- Conduct routine monitoring of environmental conditions alongside disease surveillance.
- Enhance surveillance of climate sensitive diseases (e.g., vector-borne diseases, illnesses impacted by air quality).
- Design and implement early warning systems related to climate impacts such as drought and vector-borne disease.

Essential Public Health Service #3: Inform, educate, and empower people about health issues.

- Institute continuous, science-based, and culturally competent education programs to inform policymakers, communities, and local health department staff on the health impacts of climate change.
- Articulate the causal pathways by which climate change impacts health.
- Identify health benefits of mitigation activities such as active transportation and local food production.

Essential Public Health Service #4: Mobilize community partnerships and action to identify and solve health problems.

- Advocate for policies, plans, programs, and resources to support climate change mitigation and adaptation, emphasizing scientific evidence and equity.
- Build partnerships with key local stakeholders to engage and enlist them in the response to climate change.
- Integrate climate change into emergency preparedness plans.

Essential Public Health Service #5: Develop policies and plans that support individual and community health efforts.

- Develop local climate change mitigation and adaptation plans that address the health impacts of climate change.
- Design evidence-based intervention models that reduce negative health impacts and prepare jurisdictions for a changing climate.
- Collaborate with local stakeholders to develop preparedness and response plans for extreme weather events.
- Work with policymakers to introduce a public health perspective into public policy developed around climate change.

Essential Public Health Service #6: Enforce laws and regulations that protect health and ensure safety.

- Use environmental health regulatory activities and authorities to protect the public's health from climate change (e.g., restrict outdoor activities that increase the risk of wildfires).

Essential Public Health Service #7: Link people to needed personal health services and ensure the provision of healthcare when otherwise unavailable.

- Plan for and ensure continuity of healthcare services during extreme events like flooding and wildfires.

Essential Public Health Service #8: Assure competent public and personal health care workforce.

- Provide opportunities to educate and train public health leadership and the public health workforce on the health effects of climate change.

Essential Public Health Service #9: Evaluate effectiveness, accessibility, and quality of personal and population-based health services.

- Contribute to the evidence base by evaluating mitigation and adaptation interventions.

Essential Public Health Service #10: Research for new insights and innovative solutions to health problems.

- Participate in scientifically based research programs related to climate change that readily translate to the practice of public health.
- Support research on emerging health impacts related to climate change and public health best practice standards.

Justification

Climate change has serious and far-reaching health implications for present and future generations, and can be expected to have both direct and indirect impacts on human health.² One example of a direct impact is the exacerbation of respiratory conditions and allergies due to air pollution. Poor air quality increases ground-level ozone, which has been documented to exacerbate asthma and lead to increased incidence of “asthma-related hospital visits and premature deaths.”³ An example of an indirect impact is the increasing risk for vector-borne infectious disease in the United States.⁴ Climate change is already expanding the distribution of ticks, which can carry illnesses like Rocky Mountain Spotted Fever.³

More intense and more frequent weather events caused by changes in climate threaten to “increase the number of people suffering from death, disease and injury from heat waves, floods, storms, fires, and droughts.”³ Climate change may also cause social disruption, economic decline, and displacement of populations, all of which may substantially impact health.⁵ Moreover, the health risks associated with climate change will not be shared equally among individual populations. The negative health effects listed above will disproportionately burden the very young, older adults, people living with mental and physical disabilities, low-income people, and marginalized communities, thereby exacerbating problems of social and environmental justice.^{4,5}

To reduce the negative health impacts of climate change, the local public health system must prepare to address present and future challenges. Currently, many local health departments are not adequately prepared to meet these challenges.⁶ NACCHO recognizes that local health department capacity to mitigate climate change must be improved through adequate funding, training of personnel, community engagement, and planning efforts. The first step to increasing capacity is to instill in stakeholders—including the public—that climate change is happening now, and that its effects will be felt at the local level. Increased awareness is the first step towards the adequate allocation of resources to climate change impact mitigation, enabling local health departments to protect their most vulnerable populations.

References

1. Centers for Disease Control and Prevention. (May 29, 2014). The Public Health System and the 10 Essential Public Health Services. National Public Health Performance Standards (NPHPS). Retrieved December 15, 2017, from <http://www.cdc.gov/nphpsp/essentialservices.html>
2. The White House. (June 2014). *The Health Impacts of Climate Change on Americans*. Washington, DC: The White House. Retrieved November 21, 2017, from https://obamawhitehouse.archives.gov/sites/default/files/docs/the_health_impacts_of_climate_change_on_americans_final.pdf
3. Confalonieri, U., Menne, B., Akhtar, R., Ebi, K. L., Hauengue, M., Kovats, R. S. et al. (2007). Human health. In *Climate Change 2007: Impacts, Adaptation and Vulnerability* (pp. 391-431). Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Parry, M.L., O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson (Eds.)]. Cambridge, UK, and New York: Cambridge University Press.
4. National Climate Assessment and Development Advisory Committee. (2014). Human Health. *The Third National Climate Assessment*. Washington, DC: U.S. Global Change Research Program. Retrieved December 15, 2017, from <http://nca2014.globalchange.gov/highlights/report-findings/human-health>
5. Ebi, K.L., Balbus, J. Kinney, P. L., Lipp, E., Mills, D., O’Neill, M. S., et al. Effects of Global Change on Human Health. In J. L. Gamble (Ed.), *Synthesis and Assessment Product 4.6. Analyses of the Effects of Global Change on Human Health and Welfare and Human Systems* (2-22–2-26). Washington, D.C.: Environmental Protection Agency.
6. National Association of County and City Health Officials (NACCHO). (2014). *Are We Ready? Report 2: Preparing for the Public Health Challenges of Climate Change*. Washington, DC: NACCHO. Retrieved December 15, 2017, from <http://eweb.naccho.org/prd/?na609pdf>

Record of Action

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