

**COMMITTEE ON NATURAL RESOURCES**  
**114<sup>th</sup> Congress Disclosure Form**  
**As required by and provided for in House Rule XI, clause 2(g)(5)**

**Legislative Hearing on H.R. 1644 (Mooney)**, To amend the Surface Mining Control and Reclamation Act of 1977 to ensure transparency in the development of environmental regulations, and for other purposes. *“Supporting Transparent Regulatory and Environmental Actions in Mining Act (STREAM Act).”*

May 14, 2015

**For Individuals:**

Name: Michael Hendryx, PhD  
Address: Department of Applied Health Science  
School of Public Health  
Indiana University  
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\* \* \* \* \*

**For Witnesses Representing Organizations:**

Name:  
Name of Organization(s) You are Representing at the Hearing:  
Business Address:  
Business Email Address:  
Business Phone Number:

\* \* \* \* \*

**For Nongovernment Witnesses ONLY:**

1. Please attach/include current curriculum vitae or resume.

Attached

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

None

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

None

ABBREVIATED CURRICULUM VITAE  
**MICHAEL HENDRYX**

**I. Current Appointment**

**Date of Preparation**

Professor  
Department of Applied Health Science  
School of Public Health

May 2015

[REDACTED]

**II. Education**

1988	Postdoctoral Fellowship	Methodology Program, University of Chicago
1986	Ph.D.	Northwestern University (Psychology)
1984	M.S.	Northwestern University (Psychology)
1982	B.A.	University of Nevada, Reno (Psychology)

**III. Courses Taught (graduate level unless otherwise noted)**

Indiana University

MPH Culminating Experience in Public Health Administration (2014-15)

Research and Evaluation Methods in Health (2014-2015) (Undergraduate)

Acquiring and Managing External Funds (2013)

West Virginia University

Analytic Methods for Health Policy, Management & Leadership (2013) (Co-Instructor)

Foundations in Health Policy (2013)

Policy and the Health System (2007-2011)

Washington State University

Research and Evaluation Methods in Health Care (1995-2003)

Community Psychology (1997)

Advanced Health Care Policy Seminar (1996)

University of Iowa

Introduction to Health Policy and Administration (1992-1994)

Health Services Research II (1994)

Quality Assurance and Utilization Review (1991-1993)

**IV. Honors and Awards**

Academic Partner, Environmental Protection Agency Toxics Release Inventory University Challenge, 2013-2014

Nominated, WVU School of Medicine Distinguished Teacher Award, 2007  
JSI Rural Health Mentor Award, 2000  
NRSA Postdoctoral Training Grant, 1986-88  
VA HSRD Dissertation Year Training Grant, 1985-86  
NRSA Predoctoral Training Grant, 1984-85  
Northwestern University Summer Fellowship, 1984  
Northwestern University Teaching Assistantships, 1982-86  
Phi Kappa Phi National Honor Society, 1982

## **V. Other Professional Activities**

### **A. Grant Reviewer**

NIH U54 Transdisciplinary Collaborative Centers for Health Disparities Research (RFA-MD-13-003), National Institute of Minority Health and Health Disparities, February 2013  
NIH R01 Special Emphasis Panel, Sociobehavioral, Health Services, and Policy-Related Health Disparities Research (RFA-MD-12-003), National Institute of Minority Health and Health Disparities, Rockville, November 2012  
NIH R24 Special Emphasis Panel, Community-Based Participatory Research Grants Planning Phase (RFA-MD-12-006), National Institute of Minority Health and Health Disparities, Rockville, August 2012  
WorkSafeBC Research Secretariat, British Columbia, 2010-2011  
Health Care Financing and Organization (HCFO), Robert Wood Johnson Foundation, 2006  
B-Start Research program, NIMH, 2005-2006  
Building Research Infrastructure and Capacity, Agency for Healthcare Research and Quality (AHRQ), Rockville MD, December 2005  
National Research Service Awards Institutional Research Training Grants, Agency for Healthcare Research and Quality (AHRQ), Rockville, MD, February 2003

### **B. Editorial Service and Journal Review**

Guest editor: *Journal of Behavioral Health Services and Research*, 2000-2001  
*Journal of Rural Health*, 2010-2011

Reviewer: I have provided critical reviews for 50 different journals over a period of 22 years.

### **C. Other Professional Service**

Delivered Briefings in the US House of Representatives and the US Senate: February 9, 2010 (Byrd); July 13, 2011 (Yarmuth); April 10, 2012 (Boxer, Cardin, Markey); April 23, 2013 (Slaughter, Yarmuth). Personal briefing to Senator Rockefeller, August 1, 2012.

Participated in writing a Brief Amici Curiae (Friend of the Court Brief) submitted to the US Supreme Court on behalf of the Ohio Valley Environmental Coalition, 2010.

Member, Division of Alcohol and Substance Abuse Research Subcommittee, Washington State Department of Social and Health Services, 2002-2006

Member, Consumer Outcomes, Performance Indicator, and Performance Data Work Groups, Mental Health Division, Washington State Department of Social and Health Services, 1999-2006

Member, Health Assessment Work Group, Health Improvement Partnership, 1996-97

Co-Chair, Mental Health Functioning Task Force, Health Improvement Partnership, Spokane, 1995-96  
(Member, 1996-97)

Member, Task Force on Junior Researchers, Association for Health Services Research Conference, 1995

Planning Committee, National Association for Rural Mental Health 1st Annual Conference, 1995

Assistant Director for Data Management and Analysis, and Chair of Clinical Information Management Task Force, Institute for Quality Health Care, University of Iowa, 1990-94

## VI. **Selected Peer-Review papers published or in press (125 total)**

1. Hendryx M, Ahern M, Nurkiewicz T. Hospitalization patterns associated with Appalachian coal mining. *Journal of Toxicology and Environmental Health Part A*, 70, 2064-2070, 2007.
2. Hendryx M, Ahern M. Relations between health indicators and residential proximity to coal mining in West Virginia. *American Journal of Public Health*, 98, 669-671, 2008.
3. Hendryx M. Mortality rates in Appalachian coal mining counties: 24 years behind the nation. *Environmental Justice*, 1, 5-11, 2008.
4. Hendryx M, O'Donnell K, Horn K. Lung cancer mortality is elevated in coal mining areas of Appalachia. *Lung Cancer*, 62, 1-7, 2008.
5. Hendryx M. Mortality from heart, respiratory and kidney disease in coal mining areas of Appalachia. *International Archives of Occupational and Environmental Health*, 2009, 82, 243-249.
6. Hendryx M, Ahern M. Mortality in Appalachian coal mining regions: the value of statistical life lost. *Public Health Reports*, 2009, 124, 541-550.
7. Hendryx M, Zullig K. Higher coronary heart disease and heart attack morbidity in Appalachian coal mining regions. *Preventive Medicine*, 2009, 49, 355-359.
8. Hendryx M, Fedorko E, Anesetti-Rothermel A. A geographical information system-based analysis of cancer mortality and population exposure to coal mining activities in West Virginia, United States of America. *Geospatial Health*, 2010, 4, 243-256.
9. Palmer MA, Bernhardt ES, Schlesinger WH, Eshleman KN, Foufoula-Georgiou E, Hendryx MS, Lemly AD, Likens GE, Loucks OL, Power ME, White PS, Wilcock PR. Consequences of mountaintop mining. *Science*, 2010, 327, 148-149.
10. Zullig KJ, Hendryx M. A comparative analysis of health-related quality of life (HRQOL) for residents of US counties with and without coal mining. *Public Health Reports*, 2010, 125, 548-555.
11. Cain L, Hendryx M. Learning outcomes among students in relation to West Virginia coal mining: an environmental "riskscape" approach. *Environmental Justice*, 2010, 3, 71-77.
12. Hitt NP, Hendryx M. Ecological integrity of streams related to human cancer mortality rates. *EcoHealth*, 2010, 7, 91-104.
13. Hendryx M, Fedorko E, Halverson J. Pollution sources and mortality rates across rural-urban areas in the United States. *Journal of Rural Health*, 2010, 26, 383-391.
14. Epstein PR, Buonocore JJ, Eckerle K, Hendryx M, Stout BM, Heinberg R, Clapp RW, May B, Reinhart NL, Ahern MM, Doshi SK, Glustrom L. Full cost accounting for the life cycle of coal. *Annals of the New York Academy of Sciences*, 2011, 1219 73-98.
15. Zullig K, Hendryx M. Health-related quality of life among central Appalachian residents in mountaintop mining counties. *American Journal of Public Health*, 2011, 101, 848-853.
16. Hendryx M. Poverty and mortality disparities in central Appalachia: mountaintop mining and environmental justice. *Journal of Health Disparities Research and Practice*, 2011, 4(3), 50-59.

17. Luo J, Hendryx M, Ducatman A. Association between six environmental chemicals and lung cancer incidence in the United States. *Journal of Environmental and Public Health*, 2011, 9 pp, doi:10.1155/2011/463701.
18. Ahern M, Hendryx M, Conley J, Fedorko E, Ducatman A, Zullig K. The association between mountaintop mining and birth defects among live births in Central Appalachia, 1996-2003. *Environmental Research*, 2011, 111, 838-846.
19. Luo J, Hendryx M. Environmental carcinogen releases and lung cancer mortality in rural-urban areas of the United States. *Journal of Rural Health*, 2011, 27, 342-349.
20. Esch L, Hendryx M. Chronic cardiovascular disease mortality in mountaintop mining areas of central Appalachian states. *Journal of Rural Health*, 2011, 27, 350-357.
21. Hendryx M, Wolfe L, Luo J, Webb B. Self-reported cancer rates in two rural areas of West Virginia with and without mountaintop coal mining. *Journal of Community Health*, 2012, 37, 320-327.
22. Hendryx M, Conley J, Fedorko E, Luo J, Armistead M. Permitted water pollution discharges and population cancer and non-cancer mortality: toxicity weights and upstream discharge effects in US rural-urban areas. *International Journal of Health Geographics*, 2012, 11:9 doi:10.1186/1476-072X-11-9.
23. Ahern M, Hendryx M. Cancer mortality rates in Appalachian mountaintop mining areas. *Journal of Occupational and Environmental Science*, 2012, 1(2), 63-70.
24. Hendryx M, Fulk F, McGinley A. Public drinking water violations in mountaintop coal mining areas of West Virginia, USA. *Water Quality, Exposure and Health*, 2012, 4, 169-175.
25. Hendryx M, Ducatman AM, Zullig KJ, Ahern MM, Crout R. Adult tooth loss for residents of US coal mining and Appalachian counties. *Community Dentistry and Oral Epidemiology*, 2012, 40, 488-497.
26. Hendryx M, Luo J. Cancer hospitalizations in rural-urban areas in relation to carcinogenic discharges from Toxics Release Inventory facilities. *International Journal of Environmental Health Research*, 2013, 23, 155-169.
27. Hendryx M, Ahern M, Zullig KJ. Improving the environmental quality component of the County Health Rankings Model. *American Journal of Public Health*, 2013, 103, 727-732.
28. Knuckles T, Stapleton P, Minarchick V, McCawley M, Hendryx M, Esch L, Nurkiewicz T. Air pollution particulate matter collected from an Appalachian mountaintop mining site induces microvascular dysfunction. *Microcirculation*, 2013, 20, 158-169.
29. Hendryx M. Personal and family health in rural areas of Kentucky with and without mountaintop coal mining. *Journal of Rural Health*, 2013, 29, S79-S88.
30. Hendryx M, Innes-Wimsatt KA. Increased risk of depression for people living in coal mining areas of Central Appalachia, USA. *Ecopsychology*, 2013, 5(3), 179-187.
31. Kurth L, McCawley M, Hendryx M, Lusk S. Atmospheric particulate matter size distribution and concentration in West Virginia coal mining and non-mining areas. *Journal of Exposure Science and Environmental Epidemiology*, 2014, 24, 405-411.
32. Luanpitpong S, Chen M, Knuckles T, Wen S, Luo J, Ellis E, Hendryx M, Rojanasakul Y. Appalachian mountaintop mining particulate matter induces neoplastic transformation of human bronchial epithelial cells and promotes tumor formation. *Environmental Science and Technology*, 2014, 48, 12912-12919.
33. Kurth L, Kolker A, Engle M, Geboy N, Hendryx M, Orem W, McCawley M, Crosby L, Tatu C, Varonka M, DeVera C. Atmospheric particulate matter in proximity to mountaintop coal mines: sources and potential environmental and human health impacts. *Environmental Geochemistry and Health*, 2014, epub Dec. 24, doi 10.1007/s10653-014-9669-5.
34. Luo J, Virnig B, Hendryx M, Wen S, Chelebowski R, Chen C, Rohan T, Tinker L, Wactawski-Wende J, Lessin L, Margolis K. Diabetes, diabetes treatment and breast cancer prognosis. *Breast Cancer Research and Treatment*, 2014, 148, 153-162.
35. Hendryx M, Luo J, Chen B. Total and cardiovascular mortality rates in relation to discharges from Toxics Release Inventory sites in the United States. *Environmental Research*, 2014, 133, 36-41.

36. Luo J, Lin HS, He K, Hendryx M. Diabetes and prognosis in older persons with colorectal cancer. *British Journal of Cancer*, 2014, 110, 1847-1854.
37. Hendryx M, Luo J. An examination of the effects of mountaintop removal coal mining on respiratory symptoms and COPD using propensity scores. *International Journal of Environmental Health Research*, 2014, epub July 24: 1-12.
38. Hendryx M, Luo J. A test of vitamin D benefits on respiratory health mediated through inflammatory markers. *Chronic Respiratory Disease*, 2015, 12, 24-30.
39. Hendryx M, Entwistle J. Association between residence near surface coal mining and blood inflammation. *The Extractive Industries and Society*, in press.
40. Luo J, Hendryx M, Safford MM, Wallace R, Rossom R, Eaton C, Bassuk S, Margolis K. Newly developed chronic conditions and changes in health-related quality of life among post-menopausal women. *Journal of the American Geriatrics Society*, in press.