

**Suggested readings for: Krieger N. Epidemiology, structural racism, & the two-edged sword of data: structural problems require structural solutions. Invited presentation, 5<sup>th</sup> Cutter Symposium on “Racism and Epidemiology,” sponsored by the Harvard T.H. Chan Department of Epidemiology, Boston, MA, May 14, 2021. [ver: 5/11/21]**

### **Concepts and methods for analyzing relationships between structural racism & health**

- Krieger N. Structural racism, health inequities, and the two-edged sword of data: structural problems require structural solutions. *Frontiers Public Health* 2021; 9:301; <https://doi.org/10.3389/fpubh.2021.655447>
- Krieger N, Boyd R, De Maio F, Maybank A. Medicine's privileged gatekeepers: producing harmful ignorance about racism and health. *Health Affairs Blog*, April 20, 2021. <https://www.healthaffairs.org/doi/10.1377/hblog20210415.305480/full/> -- and, related:
  - Boyd R, Krieger N, De Maio F, Maybank A. The World's Leading Medical Journals Don't Write About Racism. That's a Problem. *TIME Magazine*, April 21, 2021, 3:36 pm EDT. <https://time.com/5956643/medical-journals-health-racism/>
- Krieger N. From structural injustice to embodied harm: measuring racism, sexism, heterosexism, and gender binarism for health equity studies. *Annu Rev Public Health* 2020; 41:37-62. <https://www.annualreviews.org/doi/pdf/10.1146/annurev-publhealth-040119-094017>
- Bailey ZD, Krieger N, Agénor M, Graves J, Linos N, Bassett M. Structural racism and health inequities: evidence and interventions. *Lancet* 2017; 389:1453-1463.
- Krieger N. Discrimination and health inequities. In: Berkman LF, Kawachi I, Glymour M (eds). *Social Epidemiology*. 2<sup>nd</sup> ed. New York: Oxford University Press, 2014; 63-125.
- Krieger N. Methods for the scientific study of discrimination and health: from societal injustice to embodied inequality – an ecosocial approach. *Am J Public Health* 2012; 102:936-945.
- Krieger N, Rowley DL, Herman AA, Avery B, Phillips MT. Racism, sexism, and social class: implications for studies of health, disease, and well-being. *Am J Prev Med* 1993; 9 (Suppl):82-122.

### **Ecosocial theory, embodied histories, populations, & health inequities – and the making of public health data**

- Krieger N. *Epidemiology and the People's Health: Theory and Context*. New York: Oxford University Press, 2011.
- Krieger N. Epidemiology and the web of causation: has anyone seen the spider? *Soc Sci Med* 1994; 39:887-903.
- Krieger N. Theories for social epidemiology in the 21<sup>st</sup> century: an ecosocial perspective. *Int J Epidemiol* 2001; 30:667-677.
- Krieger N. Got theory? – on the 21<sup>st</sup> c CE rise of explicit use of epidemiologic theories of disease distribution: a review and ecosocial analysis. *Current Epidemiol Reports* 2014;1(1):45-56.
- Krieger N. Embodiment: a conceptual glossary for epidemiology. *J Epidemiol Community Health* 2005; 59:350-355.
- Krieger N. Who and what is a “population?” Historical debates, current controversies, and implications for understanding “population health” and rectifying health inequities. *Milbank Quarterly* 2012; 90:634-681.
- Krieger N. The making of public health data: paradigms, politics, and policy. *J Public Health Policy* 1992; 13:412-427.

### **COVID-19 and US health inequities: selected publications [see: <https://www.hsph.harvard.edu/nancy-krieger/covid-19-publications/>]**

- Conceptual
- Krieger N. **ENOUGH:** COVID-19, structural racism, police brutality, plutocracy, climate change – and time for health justice, democratic governance, & an equitable sustainable future. *Am J Public Health* 2020; 110(11):1620-1623 (on-line advance access: August 20, 2020; published on-line: October 15, 2020). <https://ajph.aphapublications.org/doi/10.2105/AJPH.2020.305886>
  - Krieger N, Gonsalves G, Bassett MT, Hanage W, Krumholz HM. The fierce urgency of now: closing glaring gaps in US surveillance data on COVID-19. *Health Affairs Blog*, April 14, 2020. <https://www.healthaffairs.org/doi/10.1377/hblog20200414.238084/full/>
  - Chotiner I. The interwoven threads of inequality and health. The coronavirus crisis is revealing the inequities inherent in public health due to societal factors, Nancy Krieger, a professor of social epidemiology, says. (Interview with Nancy Krieger). *The New Yorker*, April 14, 2020. <https://www.newyorker.com/news/g-and-a/the-coronavirus-and-the-interwoven-threads-of-inequality-and-health>
  - Krieger N. COVID-19, data, and health justice. *To the Point*. Commonwealth Fund, April 16, 2020. <https://doi.org/10.26099/pz58-k702>
- Empirical
- Hanage WP, Testa C, Chen JT, David L, Pechter E, Seminario P, Santillana M, Krieger N. COVID-19: US Federal accountability for entry, spread, and inequities – lessons for the future. *Eur J Epidemiol* 2020; 35:995-1006 (Epub 2020 Nov 2); <https://doi.org/10.1007/s10654-020-00689-2>
  - Krieger N, Waterman PD, Chen JT. COVID-19 and overall mortality inequities in the surge in death rates by ZIP Code characteristics: Massachusetts, January 1 to May 19, 2020. *Am J Public Health* 2020; 110(12):1850-1852 (Epub 2020 Oct 15). <https://ajph.aphapublications.org/doi/full/10.2105/AJPH.2020.305913>
  - Chen JT, Krieger N. Revealing the unequal burden of COVID-19 by income, race/ethnicity, and household crowding: US county versus ZIP Code analyses. *J Public Health Manag Pract* 2021; 27(Suppl 1):S43-S56 (Epub 2020 Sept 9). doi: 10.1097/PHH.0000000000001263 [https://journals.lww.com/jphmp/Fulltext/2021/01001/Revealing\\_the\\_Unequal\\_Burden\\_of\\_COVID\\_19\\_by.8.aspx](https://journals.lww.com/jphmp/Fulltext/2021/01001/Revealing_the_Unequal_Burden_of_COVID_19_by.8.aspx)
  - Bassett MT, Chen JT, Krieger N. Variation in racial/ethnic disparities in COVID-19 mortality by age in the United States: A cross-sectional study. *PLoS Med* 2020; 17(10): e1003402. <https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1003402>
  - Krieger N, Testa C, Hanage WP, Chen JT. US racial and ethnic data for COVID-19: still missing-in-action (letter). *Lancet* 2020; 396(10261):e81. (Epub 2020 Oct 22) DOI: [https://doi.org/10.1016/S0140-6736\(20\)32220-0](https://doi.org/10.1016/S0140-6736(20)32220-0)
  - Krieger N, Waterman PD, Chen JT, Testa C, Hanage WP. Missing again: US racial and ethnic data for COVID-19 vaccination (letter). *Lancet* 2021; 397(10281):1259-1260. [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(21\)00465-7/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)00465-7/fulltext)
  - Chen JT, Testa C, Waterman PD, Krieger N. Intersectional inequities in COVID-19 mortality by race/ethnicity and education in the United States, January 1, 2020 – January 31, 2021. Harvard Center for Population and Development Studies, Volume 21, No. 3, February 23, 2021. [https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2021/02/21\\_Chén\\_covidMortality\\_Race\\_Education\\_HCPDS\\_WorkingPaper\\_Vol-21\\_No-3\\_Final\\_footer.pdf](https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2021/02/21_Chén_covidMortality_Race_Education_HCPDS_WorkingPaper_Vol-21_No-3_Final_footer.pdf)
  - Krieger N, Testa C, Waterman PD, Chen JT. Attack America's overlapping miseries: Why going big on relief is an economic, public health, and moral imperative. *New York Daily News*, February 17, 2021. <https://www.nydailynews.com/opinion/ny-oped-why-we-must-go-big-on-relief-20210217-jqpvscvgrdy5hdeqxc4rg5ya-story.html> ; for detailed data, see Krieger et al HCPDS Working Paper Vol 21, No 2 (February 13, 2021): [https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2021/02/21\\_krieger-et-al\\_C19HH-pulse\\_HCPDS\\_Vol-21\\_No-2\\_Final.pdf](https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2021/02/21_krieger-et-al_C19HH-pulse_HCPDS_Vol-21_No-2_Final.pdf)
  - Krieger N, Testa C, Chen JT, Waterman PD, Hanage WP. A warning against using static US county-level community data to guide equity in COVID-19 vaccine distribution: temporal and spatial correlations of community characteristics with COVID-19 cases and deaths vary enormously and are increasingly uninformative. Harvard Center for Population and Development Studies Working Paper, Volume 20, Number 5, December 1, 2020. [https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2020/12/20\\_Krieger-et-al\\_equity-in-vaccine-distribution\\_Volume-20\\_No-5\\_final.pdf](https://cdn1.sph.harvard.edu/wp-content/uploads/sites/1266/2020/12/20_Krieger-et-al_equity-in-vaccine-distribution_Volume-20_No-5_final.pdf)
  - Cowger TL, Davis BA, Etkins OS, Makofone K, Lawrence JA, Bassett MT, Krieger N. Comparison of Weighted and Unweighted Population Data to Assess Inequities in Coronavirus Disease 2019 Deaths by Race/Ethnicity Reported by the US Centers for Disease Control and Prevention. *JAMA Netw Open*. 2020; 3(7):e2016933. <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2768722>
  - Krieger N, Chen JT, Waterman PD. Using the methods of the Public Health Disparities Geocoding Project to monitor COVID-19 inequities and guide action for health justice (May 15, 2020). Freely available at: <https://www.hsph.harvard.edu/thegeocodingproject/covid-19-resources/>