

**Syllabus**  
**HPM 242: Determinants of Health**  
— Revised for Asynchronous Online Learning —  
**Spring Quarter, 2020**  
**10-11:50am; Tuesdays & Thursdays**

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Office hours: Tuesdays & Thursdays 10:00-11:50pm or by appointment. Please contact Dr. Zimmerman by email to set up a Zoom appointment, even if it's during regular office hours.

*NOTE: The first week will be synchronous, meaning that all students must log in by Zoom by 10am on both Tuesday and Thursday. Weeks 2-9 will be asynchronous, meaning that video content will be posted online for students to review on their own. There will be no real-time class meetings for weeks 2-9. Week 10 will be student presentations, and will again be synchronous.*

*Students will be invited to a 1-hour rap session on a Thursday from 10:-11:00, randomly during weeks 2-7. This will just be a general check-in.*

### **Course Description**

It is now widely recognized that health outcomes depend far more on health behaviors and the social and physical environments than on medical care. This course introduces students to the underlying causes of health, wellness, and illness. Theories and evidence supporting multiple underlying determinants of health in populations are presented. Through these perspectives, students will increase their understanding of the interplay of social, economic, behavioral, environmental, and other factors that influence the health of populations, and sub-groups. The course clarifies how an understanding of determinants of health can influence public policy, planning, and research to promote a healthier society with greater health equity.

### **Resources**

There is no required textbook. The syllabus includes a large number of textual, video and audio resources, from which students themselves will select a smaller number to discuss in depth.

### **Lectures and Self-Assessments**

Each week of the quarter presents the determinants of health from a different perspective. Usually, but not always, this perspective is that of a particular determinant, such as economic inequality, medical care, or climate change. For most weeks, video lectures will be posted online. Students are expected to view each lecture and then complete a self-assessment afterward, which will be graded pass/fail. All students who complete the entire self-assessment will receive a passing grade on these assignments. In light of the Covid-19 disruption, there is no other regular, weekly reading assigned.

### **Resource Reviews**

Each student is required to submit 2 resource reviews in the course of the quarter: one in weeks 1-5 and a second in weeks 6-10. Students will choose a resource (that is, a reading, a video, a song, etc) from the list on the syllabus or any other resource. These reviews will be approximately 700 words long and will process the information in one (or more) of the resources in a creative way.

### Final Project

Students have two options for a final project.

- Submit a white paper on population health describing a determinant of health for senior leadership in a health system. The white must briefly describe the determinant of health and describe its history in a particular region or community. It must then describe in a deep and/or innovative way the role of this determinant of health outcomes in the community or region. The white paper must present the history and causal pathways in a level of depth and detail that are not likely to be understood by senior medical leadership. Then a business case must be advanced—not described in any detail, but simply raised as a possibility.
- Submit a **detailed plan** for a communication piece designed to educate non-experts about the determinants of population health. The communication piece will take the form of a podcast, short video, data visualization or other creative product. Note that the final project only describes this communication piece—students are not expected to actually produce it (although extra credit if you do!). The project will be graded on the basis of its expected ability to convey surprising and unexpected insight about the determinants of health in a way that is compelling and memorable.

### Assessments

	Percent of Final Grade	Due Dates	Grading Scheme
First Resource Review	10%	rolling	0-100
Second Resource Review	10%	rolling	0-100
Final-Project idea	5%	4/12/20	P/F
Final Project draft	5%	5/17/20	0-100
Final Project	10%	6/1/20	0-100
Comprehension checks	50%	Twice weekly	P/F
Attendance in final two sessions	10%	6/2; 6/4	P/F

Note that by design, a majority (65%) of your grade is Pass/Fail. A passing grade will be assigned a score of 100, which means that if you do the work, you are well on the way to a good grade. This is designed to take grading pressure off students in a time of unusual stress and disruption. If you are unable to complete assignments at any point in the quarter for any reason associated with Covid-19, please get in touch with me and I will make accommodations. The

### Guidance on Assignments

Guidance on assignments will be posted on the course website. This guidance may be modified during the course of the quarter to accommodate enrollment, timelines, and other constraints.

### The Regrettable and the Lamentable

Students experiencing or considering an unfortunate event or adverse circumstance of any sort are encouraged to be in touch directly with Dr. Zimmerman. Anna Lim, the Department's SAO, is also a useful resource.

### Course Schedule

*Please note that because of the uncertainties associated with Covid-19, this schedule may change.*

Week		Date	Topic
1	Tuesday	March 31	<b>Introduction</b>
1	Thursday	April 2	<b>Covid 19</b>
2	Tuesday	April 7	<b>Tracking Health</b>
2	Thursday	April 9	<b>Causal Reasoning for Population Health</b>
3	Tuesday	April 14	<b>Models of Determinants of Health</b>
3	Thursday	April 16	<b>Stress</b>
4	Tuesday	April 21	<b>Structure, Agency &amp; Health Behaviors</b>
4	Thursday	April 23	<b>Climate Change</b>
5	Tuesday	April 28	<b>OneHealth</b>
5	Thursday	April 30	<b>Built Environment</b>
6	Tuesday	May 5	<b>Structural Racism</b>
6	Thursday	May 7	<b>Inequality &amp; Health</b>
7	Tuesday	May 12	<b>Money Flows Through the Body Toward Power</b>
7	Thursday	May 14	<b>International Health &amp; Medical Care</b>
8	Tuesday	May 19	<b>Medical Care</b>
8	Thursday	May 21	<b>Children &amp; the Life Course</b>
9	Tuesday	May 26	<b>Economic &amp; Social Policy</b>
9	Thursday	May 28	<b>Public Health</b>
10	Tuesday	June 2	Presentations
10	Thursday	June 4	Presentations

### Learning Objectives for the Course by Session

By the end of this quarter, students should be able to:

#### *Introduction*

- Describe some of the changing context of population health throughout the millennia;
- Describe the changing context of population health over the 20<sup>th</sup> Century;

#### *Tracking Population Health*

- List several sources of data about individual health at the local, state, national and international levels;
- List several summary measures of population health at the local, state, national and international levels;

#### *Causal Reasoning for Population Health*

- Differentiate between the determinants of individual health and the determinants of population health;
- Distinguish between causes and forces;
- Explain the metaphor of upstream health determinants;
- Apply the distinctions of the upstream metaphor to health risks today;
- Identify forcing factors in population health;

### *Models of the Determinants of Health*

- Identify several prominent models of the determinants of health;
- Organize various determinants of individual and population health into one of the major models of health;
- Memorize the approximate contribution of different determinants to health;

### *Stress*

- Describe the effects of stress on human health;

### *Structure and Agency*

- Explain the distinction between structure and agency;
- Provide some examples of how structure influences health outcomes;

### *One World and One Health*

- Identify the connections between ecosystem health and human health;
- List at least 2 ways in which human health is intertwined with animal health;
- List at least 1 way in which human health is intertwined with the health of the ecosystem;

### *Climate Change*

- Identify some of the current and expected effects of climate change on human health;

### *Built Environment*

- Explain the concept of collective decisions;
- Identify several aspects of the built environment that affect health;
- Explain how the built environment affects human health;

### *Structural Racism*

- Differentiate between race and racism as determinants of health;
- Explain the distinctions between structural racism, institutional racism, and interpersonal racism;
- Identify some of the historical processes of structural racism in the US context;

### *Inequality*

- Differentiate among several types of social and economic inequality;
- Discuss the effects of economic inequality on health;

### *Money Flows through the Body Toward Power*

- Define capitalism, socialism, democratic socialism and communism;
- Provide examples of how market capitalism can promote health;
- Provide examples of how market capitalism can harm health;
- Analyze the conditions in which market capitalism is likeliest to promote health;

### *International Health and Medical Care*

- Describe the state of population health in a selection of diverse countries around the world;
- Briefly describe medical care delivery systems in diverse countries around the world;

#### *US Medical Care*

- Describe the contributions of medical care to population health in the U.S.;

#### *Children and the Lifecourse*

- Sketch the typical trajectory of health over the lifecourse;
- Demonstrate how the typical trajectory is altered by positive and negative early life events;

#### *Economic and Social Policy*

- Distinguish the effects of various economic and social policies on population health;

#### *Public Health*

- Interpret the existing evidence on the impact of public health on population health outcomes.

### **Gender**

Why is there nothing on the syllabus about gender, gender presentation or sexual orientation, all of which are important determinants of health? Two reasons. First, issues of gender are woven through many of the other topics. Students who are tapped to lead sessions are welcome to choose readings from this list—or any other readings—that have a primary focus on gender issues. Second, there is a separate class dedicated entirely to this topic, HPM 284 Social Policy and Health: The Case of Gender.

### **Resources by Session**

Video resources in sepia

Web sources in blue

Songs in green

#### **1. Introduction**

- 7-Up
- Committee on Population. 2013. *U.S. Health in International Perspective: Shorter Lives, Poorer Health*. Institute of Medicine.
- Adler, Nancy E., and David H. Rehkopf. 2008. "U.S. Disparities in Health: Descriptions, Causes, and Mechanisms." *Annual Review of Public Health* 29 (1):235-252.

#### **2. Tracking Health**

- Kindig, David, Paul Peppard, and Bridget Booske. 2010. "How healthy could a state be?" *Public Health Reports* 125 (2):160.
- Kindig, David, and Greg Stoddart. 2003. "What Is Population Health?" *American Journal of Public Health* 93 (3):380-383. doi: 10.2105/AJPH.93.3.380.
- Kindig, David, Paul Peppard, and Bridget Booske. 2010. "How healthy could a state be?" *Public Health Reports* 125 (2):160.
- Zimmerman, Frederick J., and Nathaniel W. Anderson. 2019. "Trends in Health Equity in the United States by Race/Ethnicity, Sex, and Income, 1993-2016." *Jama Network Open* 2 (6):e196386.

- e. County Health Rankings: [www.Countyhealthrankings.org](http://www.Countyhealthrankings.org)
- f. America's Health Rankings <https://www.americashealthrankings.org/>
- g. Healthy People leading health indicators: <http://www.healthypeople.gov/2020/Leading-Health-Indicators>

### 3. Causal Reasoning for Population Health

- a. Robert Wood Johnson Foundation. 2010. A New Way to Talk about the Social Determinants of Health. <http://www.rwjf.org/content/dam/farm/reports/reports/2010/rwjf63023>
- b. Galea, S., M. Riddle, and G.A. Kaplan. 2010. "Causal thinking and complex system approaches in epidemiology." *International Journal of Epidemiology* 39 (1):97-106.
- c. Rose, Geoffrey. 1985. "Sick individuals and sick populations." *International Journal of Epidemiology* 30 (3):427-432.
- d. McKinlay, John B. 1975. "A Case for Refocusing Upstream: The Political Economy of Illness." In *Applying Behavioral Science to Cardiovascular Risk*, edited by American Heart Association, 583-596. New York: AHA.
- e. Starfield, B., J. Hyde, J. Gervas, and I. Heath. 2008. "The concept of prevention: a good idea gone astray?" *Journal of Epidemiology and Community Health* 62 (7):580.
- f. Leichter, Howard M. 2003. "'Evil Habits' and 'Personal Choices': Assigning Responsibility for Health in the 20th Century." *The Milbank Quarterly* 81 (4):603-626.

### 4. Models of Determinants of Health

- a. Hood, Carlyn M, Keith P Gennuso, Geoffrey R Swain, and Bridget B Catlin. 2016. "County Health Rankings: Relationships Between Determinant Factors and Health Outcomes." *American Journal of Preventive Medicine* 50 (2):129-135.
- b. Braveman, Paula, Susan Egerter, and David R Williams. 2011. "The social determinants of health: coming of age." *Annual Review of Public Health* 32:381-98.
- c. Galea, Sandro, Melissa Tracy, Katherine J Hoggatt, Charles DiMaggio, and Adam Karpati. 2011. "Estimated deaths attributable to social factors in the United States." *American Journal of Public Health* 101 (8):1456-1465.
- d. Phelan, Jo C, Bruce G Link, and Parisa Tehranifar. 2010. "Social conditions as fundamental causes of health inequalities theory, evidence, and policy implications." *Journal of Health and Social Behavior* 51 (1 suppl):S28-S40.
- e. Mokdad, Ali H., James S. Marks, Donna F. Stroup, and Julie L. Gerberding. 2004. "Actual causes of death in the United States, 2000." *Jama* 291 (10):1238-1245.
- f. Raphael, Dennis. 2006. "Social Determinants of Health: Present Status, Unanswered Questions, and Future Directions." *International Journal of Health Services* 36 (4):651-677.
- g. Bambra, C., M. Gibson, A. Sowden, K. Wright, M. Whitehead, and M. Petticrew. 2010. "Tackling the wider social determinants of health and health inequalities: evidence from systematic reviews." *Journal of Epidemiology and Community Health* 64 (4):284.
- h. Bambra, Clare. 2011. "Health inequalities and welfare state regimes: theoretical insights on a public health 'puzzle'." *Journal of Epidemiology and Community Health* 65 (9):740.

- i. Diez Roux, Ana V. 2012. "Conceptual Approaches to the Study of Health Disparities." *Annual Review of Public Health* 33:41-58.
- j. Teutsch SM, Fielding JE. Rediscovering the Core of Public Health. *Annual Review of Public Health*. 2013;34(1):287-299.

## 5. Stress

- a. Seeman, Teresa E., Bruce S. McEwen, John W. Rowe, and Burton H. Singer. 2001. "Allostatic load as a marker of cumulative biological risk: MacArthur studies of successful aging." *Proceedings of the National Academy of Sciences* 98 (8):4770-4775.
- b. Irwin, Michael R, and Steven W Cole. 2011. "Reciprocal regulation of the neural and innate immune systems." *Nature Reviews Immunology* 11 (9):625.
- c. Glaser, Ronald, and Janice K Kiecolt-Glaser. 2005. "Stress-induced immune dysfunction: implications for health." *Nature Reviews Immunology* 5 (3):243.
- d. Desmond M, Kimbro RT. Eviction's Fallout: Housing, Hardship, and Health. *Social Forces* 2015;94(1):295-324.
- e. Goosby BJ, Cheadle JE, Mitchell C. Stress-related biosocial mechanisms of discrimination and African American health inequities. *Annual Review of Sociology*. 2018;44:319-340.
- f.
- g. Stanford Mind & Body Lab. Rethink Stress Intervention. Videos and online modules. <https://mbl.stanford.edu/interventions-toolkits/rethink-stress-intervention>

## 6. Structure, Agency & Health Behaviors

- a. Zimmerman, Frederick J. 2013. "Habit, custom, and power: A multi-level theory of population health." *Social Science & Medicine* 80:47-56.
- b. Beckfield, Jason, Clare Bambra, Terje A Eikemo, Tim Huijts, Courtney McNamara, and Claus Wendt. 2015. "An institutional theory of welfare state effects on the distribution of population health." *Social Theory & Health* 13 (3-4):227-244.
- c. Bambra C. Health inequalities and welfare state regimes: theoretical insights on a public health 'puzzle'. *Journal of Epidemiology and Community Health* 2011;65(9):740.
- d. Cockerham, William C. 2005. "Health lifestyle theory and the convergence of agency and structure." *Journal of Health and Social Behavior* 46 (1):51-67.
- e. Rehm, J., R. Room, M. Monteiro, G. Gmel, K. Graham, N. Rehn, C. T. Sempos, and D. Jernigan. 2003. "Alcohol as a Risk Factor for Global Burden of Disease." *European Addiction Research* 9 (4):157-164. doi: 10.1159/000072222.
- f. Montez, Jennifer Karas, Mark D. Hayward, and Anna Zajacova. 2019. "Educational Disparities in Adult Health: U.S. States as Institutional Actors on the Association." *Socius* 5:2378023119835345.
- g. Montez, Jennifer Karas, Mark D. Hayward, and Douglas A. Wolf. 2017. "Do U.S. states' socioeconomic and policy contexts shape adult disability?" *Social Science & Medicine* 178:115-126.
- h. Stringhini S, Sabia S, Shipley M, et al. Association of socioeconomic position with health behaviors and mortality. *JAMA: the journal of the American Medical Association*. 2010;303(12):1159-1166.
- i. Jarvis MJ. Why people smoke. *BMJ*. 2004;328(7434):277-279. doi:10.1136/bmj.328.7434.277



- j.
- k. Nicholas Kristof on the William Julius Wilson hypothesis of social decay. <https://www.youtube.com/watch?v=6mBsNtw02P4>
- l. Interview with Nicholas Kristof and Sheryl WuDunn about their book *Tightrope: Americans Reaching for Hope*. <https://www.youtube.com/watch?v=Z-x1209-SUg>
- m. *Johnny Cash, 16 Tons*

## 7. Climate Change

- a. Jackson, Rob, and Pep Canadell. 2019. "What's 'Fair' When It Comes to Carbon Emissions?", Last Modified December 4. <https://www.nytimes.com/2019/12/04/opinion/global-climate-change.html?action=click&module=Opinion&pgtype=Homepage>.
- b. Tuller, D. "Confronting The Effects Of Climate Change On Health In California." *Health Affairs*. 37.9 (2018): 1354-1357.
- c. US Centers for Disease Control and Prevention. "How Climate Affects Community Health" <https://www.youtube.com/watch?v=JywsWktvODc>
- d. Carolyn Kormann. 2019. The False Choice Between Economic Growth and Combatting Climate Change. *The New Yorker Magazine*. Feb. 4.
- e. *Radiohead, Idioteque*

## 8. OneHealth: Our Relationships to the Natural World

- a. Pollan, M. (2003). The Intelligent Plant. The New Yorker. Retrieved from <https://michaelpollan.com/articles-archive/the-intelligent-plant/>
- b. Rabinowitz, Peter, and Lisa Conti. 2013. "Links Among Human Health, Animal Health, and Ecosystem Health." *Annual Review of Public Health* 34 (1):189-204.
- c. Bernstein, Aaron S. 2014. "Biological Diversity and Public Health." *Annual Review of Public Health* 35 (1):153-167.
- d. Holt-Lunstad, Julianne, Timothy B Smith, and J Bradley Layton. 2010. "Social relationships and mortality risk: a meta-analytic review." *PLoS medicine* 7 (7):e1000316.
- e. McCullough, Michael E., et al. "Religious involvement and mortality: a meta-analytic review." *Health psychology* 19.3 (2000): 211.
- f. Drupp, Moritz A., et al. "Between Ostrom and Nordhaus: The research landscape of sustainability economics." *Ecological Economics* 172 (2020).

## 9. Built Environment

- a. Hartig, Terry, Richard Mitchell, Sjerp de Vries, and Howard Frumkin. 2014. "Nature and Health." *Annual Review of Public Health* 35 (1):207-228.
- b. Gibson, Marcia, Mark Petticrew, Clare Bambra, Amanda J. Sowden, Kath E. Wright, and Margaret Whitehead. 2011. "Housing and health inequalities: A synthesis of systematic reviews of interventions aimed at different pathways linking housing and health." *Health & Place* 17 (1):175-184.
- c. Swope CB, Hernández D. Housing as a determinant of health equity: A conceptual model. *Social Science & Medicine* 2019;243:112571.
- d. Block, Eryn Piper, Frederick J. Zimmerman, Efren Aguilar, Lisa Stanley, and Neal Halfon. 2018. "Early Child Development, Residential Crowding, and Commute Time in 8 US States, 2010–2017." *American Journal of Public Health* 108 (11):1550-1557.
- e. *Joni Mitchell, Big Yellow Taxi*.



## 10. Structural Racism

- a. Jones, C. P. (2000). "Levels of racism: a theoretic framework and a gardener's tale." *Am J Public Health* 90(8): 1212-5
- b. Williams, David R., Jourdyn A. Lawrence, and Brigitte A. Davis. 2019. "Racism and Health: Evidence and Needed Research." *Annual Review of Public Health* 40 (1):105-125.
- c. Goosby, B. J., Cheadle, J. E., & Mitchell, C. (2018). Stress-related biosocial mechanisms of discrimination and African American health inequities. *Annual Review of Sociology*, 44, 319-340.
- d. Bor, Jacob, Atheendar S. Venkataramani, David R. Williams, and Alexander C. Tsai. 2018. "Police killings and their spillover effects on the mental health of black Americans: a population-based, quasi-experimental study." *The Lancet* 392 (10144):302-310.
- e. Logan, Trevon D., and John M. Parman. 2018. "Segregation and mortality over time and space." *Social Science & Medicine* 199:77-86. doi: <https://doi.org/10.1016/j.socscimed.2017.07.006>.
- f. Bell, Janice F, Frederick J Zimmerman, Gunnar R Almgren, Jonathan D Mayer, and Colleen E Huebner. 2006. "Birth outcomes among urban African-American women: a multilevel analysis of the role of racial residential segregation." *Social Science & Medicine* 63 (12):3030-3045.
- g. Malat, Jennifer, Sarah Mayorga-Gallo, and David R. Williams. 2018. "The effects of whiteness on the health of whites in the USA." *Social Science & Medicine* 199:148-156.
- h. Siddiqi, Arjumand, Odmaa Sod-Erdene, Darrick Hamilton, Tressie McMillan Cottom, and William Darity. 2019. "Growing sense of social status threat and concomitant deaths of despair among whites." *SSM - Population Health* 9:100449.
- i. Yancey, A. K., B. L. Cole, R. Brown, J. D. Williams, A. Hillier, R. S. Kline, M. Ashe, S. A. Grier, D. Backman, and W. J. McCarthy. 2009. "A Cross-Sectional Prevalence Study of Ethnically Targeted and General Audience Outdoor Obesity-Related Advertising." *Milbank Quarterly* 87 (1):155-184.
- j. *Public Enemy, Fight the Power*

## 11. Inequality & Health

- a. Bor, Jacob, Gregory H. Cohen, and Sandro Galea. 2017. "Population health in an era of rising income inequality: USA, 1980–2015." *The Lancet* 389 (10077):1475-1490.
- b. Wilkinson, Richard, and Kate Pickett. 2017. "Inequality and mental illness." *The Lancet - Psychiatry* 4 (7):512-513.
- c. Zimmerman FJ, Bell JF. Income inequality and physical and mental health: testing associations consistent with proposed causal pathways. *Journal of epidemiology and community health* 2006;60(6):513-21.
- d. Pickett, Kate E, and Richard G Wilkinson. 2015. "Income inequality and health: A causal review." *Social Science & Medicine* (128):316-326.
- e. Eckenrode, John, Elliott G. Smith, Margaret E. McCarthy, and Michael Dineen. 2014. "Income Inequality and Child Maltreatment in the United States." *Pediatrics* 133 (3):454.
- f. TED Talk by Richard Wilkinson: *Inequality Harms Society*.

[http://www.ted.com/talks/richard\\_wilkinson.html](http://www.ted.com/talks/richard_wilkinson.html)

## 12. Money Flows Through the Body Toward Power

- a. Pemunta, Ngambouk Vitalis. 2013. "The governance of nature as development and the erasure of the Pygmies of Cameroon." *GeoJournal* 78 (2):353-371.
- b. Kickbusch, Ilona, Luke Allen, and Christian Franz. 2016. "The commercial determinants of health." *The Lancet Global Health* 4 (12):e895-e896.
- c. Kickbusch, Ilona. 2005. "Tackling the political determinants of global health: Is essential if we want to abolish poverty." *BMJ: British Medical Journal* 331 (7511):246.
- d. Kickbusch, Ilona. 2015. "The political determinants of health—10 years on." *BMJ* 350 (h81).
- e. Bambra, Clare, Debbie Fox, and Alex Scott-Samuel. 2005. "Towards a politics of health." *Health Promotion International* 20 (2):187-193.
- f. Curran, James, Shanto Iyengar, Anker Brink Lund, and Inka Salovaara-Moring. 2009. "Media System, Public Knowledge and Democracy: A Comparative Study." *European Journal of Communication* 24 (1):5-26.
- g. Barry, Colleen L, Marian Jarlenski, Rachel Grob, Mark Schlesinger, and Sarah E Gollust. 2011. "News media framing of childhood obesity in the United States from 2000 to 2009." *Pediatrics* 128 (1):132-145.
- h. Dorfman, Lori, Andrew Cheyne, Lissy C. Friedman, Asiya Wadud, and Mark Gottlieb. 2012. "Soda and Tobacco Industry Corporate Social Responsibility Campaigns: How Do They Compare?" *PLOS Medicine* 9 (6):e1001241. doi: 10.1371/journal.pmed.1001241.
- i. Schenker, Yael, Robert M. Arnold, and Alex John London. 2014. "The Ethics of Advertising for Health Care Services." *The American Journal of Bioethics* 14 (3):34-43.
- j. O'Connor, Anahad. 2016. "How the Sugar Industry Shifted Blame to Fat." *The New York Times*.
- k. Zimmerman, Frederick J. 2011. "Using Marketing Muscle to Sell Fat: The Rise of Obesity in the Modern Economy." *Annual Review of Public Health* 32:285-306.
- l. Wazana, Ashley. 2000. "Physicians and the pharmaceutical industry: Is a gift ever just a gift?" *Jama* 283 (3):373-380.
- m. Lacasse, Jeffrey R., and Jonathan Leo. 2005. "Serotonin and Depression: A Disconnect between the Advertisements and the Scientific Literature." *PLOS Medicine* 2 (12):e392.
- n. George Packer. 2020. The Coronavirus Revealed America's Failures. *The Atlantic*.

## 13. International Health & Medical Care

- a. Hans Rosling, The Best Stats You've Ever Seen: [http://www.ted.com/talks/lang/eng/hans\\_rosling\\_shows\\_the\\_best\\_stats\\_you\\_ve\\_ever\\_seen.html](http://www.ted.com/talks/lang/eng/hans_rosling_shows_the_best_stats_you_ve_ever_seen.html)
- b. Hans Rosling. Child Mortality: [https://www.ted.com/talks/hans\\_rosling\\_the\\_good\\_news\\_of\\_the\\_decade\\_we\\_re\\_winning\\_the\\_war\\_against\\_child\\_mortality](https://www.ted.com/talks/hans_rosling_the_good_news_of_the_decade_we_re_winning_the_war_against_child_mortality)
- c. Gapminder. Dollar Street. <https://www.gapminder.org/>

## 14. US Medical Care

- a. McCullough, J. Mac, Simone R. Singh, and Jonathon P. Leider. 2019. "The Importance of Governmental and Nongovernmental Investments in Public Health and Social Services for Improving Community Health Outcomes." *Journal of Public Health Management and Practice* 25 (4):348-356.
- b. Kaplan, Robert M, and Arnold Milstein. 2019. "Contributions of Health Care to Longevity: A Review of 4 Estimation Methods." *The Annals of Family Medicine* 17 (3):267-272.
- c. Kaplan, Robert M., David A. Chambers, and Russell E. Glasgow. 2018. "Behavioral Medicine and the Benefits of Healthcare: A Critical Appraisal and the Need for Exnovation." In *Principles and Concepts of Behavioral Medicine: A Global Handbook*, edited by Edwin B. Fisher, Linda D. Cameron, Alan J. Christensen, Ulrike Ehlert, Yan Guo, Brian Oldenburg and Frank J. Snoek, 1069-1086. New York, NY: Springer New York.
- d. Fisher, Elliott S, and H Gilbert Welch. 1999. "Avoiding the unintended consequences of growth in medical care: how might more be worse?" *Jama* 281 (5):446-453.
- e. Kaplan, Robert M. 2019. *More Than Medicine: The Broken Promise of American Health*. Harvard University Press.
- f. Adam, Gaelen P, Stacey Springs, Thomas Trikalinos, John W Williams, Jennifer L Eaton, Megan Von Isenburg, Jennifer M Gierisch, Lisa M Wilson, Karen A Robinson, and Meera Viswanathan. 2018. "Does information from ClinicalTrials.gov increase transparency and reduce bias? Results from a five-report case series." *Systematic Reviews* 7 (1):59.
- g. James, John T. 2013. "A New, Evidence-based Estimate of Patient Harms Associated with Hospital Care." *Journal of Patient Safety* 9 (3):122-128.
- h. Sunshine, Jacob E., Nicholas Meo, Nicholas J. Kassebaum, Michael L. Collison, Ali H. Mokdad, and Mohsen Naghavi. 2019. "Association of Adverse Effects of Medical Treatment With Mortality in the United States: A Secondary Analysis of the Global Burden of Diseases, Injuries, and Risk Factors Study." *JAMA Network Open* 2 (1):e187041-e187041.
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18. [Tues, June 2] Presentations

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