Sociology 126
Health of the Public:
Medicine and Disease in Social Context
Tuesday, Thursday 2:30–3:45 p.m.
Spring Term 2021
Location: the ether

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Course Websites:
A collection of links to many pertinent articles is at https://tinyurl.com/socy126-sp2021-files

Course Description:
This course examines the social causes and context of illness, death, longevity, and health care in the USA today. Given the COVID-19 pandemic we are in the midst of, these topics are more important than ever and the class will give some special attention to the pandemic. Who stays healthy and who falls ill? Who has a long life and who has a short one? What is a good death and why do so few Americans achieve it? What is good medical care, who gets it, and why? What role do physicians play in producing health in our society? To what extent do factors outside individuals’ control (factors such as genetics, parental traits, geography, or hospital quality) influence health and health care? How do major epidemics affect society, and how do societies respond effectively? Does socioeconomic inequality in society harm individual health? Do certain kinds of social networks or neighborhoods improve health? How do social factors get under our skin and literally become embodied? What are the collective constraints on individuals’ life prospects? What is the difference between an individualistic and a public health-oriented perspective on illness? And what issues of ethics and justice are raised by such questions? Would a different organization of society, different public expenditures, or different public policies matter?

While exploring these questions, we will also consider how social scientists, biologists, epidemiologists, public health experts, and doctors address them—how they use theory to understand them and how they make “causal inferences” based on observational or experimental data. However, students are not expected to have in-depth knowledge of social science methods or statistics. The readings span the medical, public health, and social science literatures, and they reflect both qualitative and quantitative approaches. They also introduce new areas of biosocial science and techniques of data science as applied to health. In many ways, this course serves as an introduction to the field of public health.
**Student Engagement:**

The course includes a range of readings from many different fields and from many policy perspectives, some of which you (and we) may disagree with. Moreover, the students in the class will have had different life experiences (sometimes personal) with some of the topics we explore – such as serious illness, suicide, gun violence, poverty, autism, medical errors, and so on. And there is likely to be a range of opinions about whether individuals or their surroundings are relatively more responsible for the various threats to public health. Our approach to these topics will be evidence-based and scientific – in both lecture and section.

**Course Requirements:**

- section attendance and class participation (10%)
- “in-class,” timed, open-book mid-term exam on March 4 (25%)
- “in-class,” timed, open-book mid-term exam (non-cumulative) on April 6 (25%)
- take-home final exam (cumulative) (40%)

Please check the above mid-term dates now, at the time you enroll in the class, to make sure you have nothing that you can, as of now, anticipate will conflict with these exam dates.

The format and timing of the exams is still to be determined, given the pandemic conditions, but [http://humannaturelab.net/teaching](http://humannaturelab.net/teaching) has old exams.

The final exam will consist of 2–3 essay questions, for a total of roughly 12–14 pages. There will be some choice, but all the questions will require in-depth engagement with the major themes of the whole course. Past final exams can also be found at [http://humannaturelab.net/teaching](http://humannaturelab.net/teaching). The exam will be distributed no later than Thursday, May 6 and will likely be due a week later. We will be asking you to upload the exam to the “Assignments” tab of the course site on Canvas (instructions will be provided). Because various electronic checks will be performed on the submitted exams, please be sure that all your work is your own and that you cite sources appropriately. Please do not cut and paste text (from any source) without attribution, as this can lead to a lot of unhappiness.

We expect that all written work you do in this class will be your own, and that you will not cheat in any way. It’s really depressing for all involved when this happens; it is surely embarrassing for the student; and it results in a very bad grade.

If you feel any exam has been graded in error, please discuss this with your TF or the head TF first, and please review the exam re-grading policy on the course website.

**Course FAQ:**

Answers to a selection of common questions are below, but many more questions are addressed at: [http://humannaturelab.net/teaching](http://humannaturelab.net/teaching) and on the course website. Please check the FAQ before emailing us.
- This class will not be offered in 2022.
- Sociology 126 also counts as Global Health 140.
- There are no prerequisites.
- Lecture slides and videos will generally be posted the week after they are shown in class.
- Graduate students taking SOCY 126 for credit should see the instructor in order to arrange different requirements.

**Collaboration:**

Discussion and the exchange of ideas are essential to academic work. However, you should ensure that any written work you submit for evaluation is the result of your own research and writing, and that it reflects your own approach to the topic. You must also properly cite any books, articles, websites, lectures, etc., that have helped you with your work (we do not care what citation format you follow, so long as you follow one); some useful information is here: https://poorvucenter.yale.edu/using-sources. In particular, students should be aware that collaboration in any way (including conversation about the questions) on the take-home final exam is not permitted.

**Sections:**

Sections will meet from the third week, beginning Monday, February 15. To assign sections, we are using the online section selection tool available to you via OCS. We will ask you to rank three potential time slots for sections in order of your preference. Places will be assigned on the basis of a computerized random selection. There will be several time slots to choose from, and we will work hard to find you a section time that works. Also, all the TFs will have office hours.

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Other TF’s to be announced….

**Books and Readings:**

Books are available for purchase online and at the Yale Bookstore. Readings from books and articles average about 60 pages per session (range 15–200), or 120 pages per week. Given very low demand in prior years, there is no course packet available for purchase. Readings are available online in the “Files” tab of Canvas.


February 2 (Tuesday)

I. Course Introduction

We will briefly review the burden of illness and death in the USA, touching on the costs, family effects, and implications for people’s well-being. We will also review the leading causes of death and how they vary by certain socio-demographic attributes. We will touch on how our attention to threats to our health is often skewed, including how we have neglected the risk of pandemic disease until it is upon us. We will note geographic variation in illness and mortality and also the relevance of circumstances of birth (including diverse in utero exposures, birthweight, birth order, parental occupation, etc.) to lifelong health. In short, we will introduce the basic biosocial facts to be explored in the course. And we will introduce the tension between individualistic and collective perspectives on medical care. We will in particular consider the case of suicide and the extent to which it reflects individual decision-making or collective constraints.

February 4 (Thursday) and February 9 (Tuesday)

What Medical Care Has and Has Not Achieved

What are the benefits of medical care? How much do doctors actually help people? What are the relative roles of curative and preventative maneuvers in the health of the public? On the population level, what have been the benefits of “big medicine”? We will consider how the nature of illness and death has changed over the last century in the U.S. and around the world, as part of the “health transition.” And we will introduce some ways of defining and measuring health other than mortality – including morbidity, physical functioning, quality of life, and “utility.” We will also begin to consider the major determinants of health at the population level.

II. Session 1: The Health Transition (February 4)


III. Session 2: The Role of Medical Care (February 9)


**February 11 (Thursday) and February 16 (Tuesday)**

The Social Distribution of Illness

We will examine how disease and survival are distributed by basic socioeconomic variables. What is the role of sex, race, ethnicity, education, income, marital status, and other social variables with respect to patient preferences, patient risks, patient care, and health outcomes? What are the methodological challenges of demonstrating and interpreting differences and inequalities in health outcomes and care? How do we distinguish the problem of unequal outcomes from that of unequal treatment, and what is the ethical implication of this difference?

**IV. Session 1: Socioeconomic Status and Health (February 11)**


Calvin CM, Batty GD, Der G., Brett CE, Taylor A, Pattie A, Cukic I, and Deary IJ. Childhood Intelligence in Relation to Major Causes of Death in 68 Year Follow-Up: Prospective Population Study. *BMJ* 2017; 357: J2708

**V. Session 2: Unequal Treatment and/or Unequal Outcomes with Respect to Race and Ethnicity (February 16)**


**February 18 (Thursday)**

VI. The Social Construction of Illness and Medicine
How are the seemingly objective, natural or scientific concepts of “body,” “illness,” or “treatment” influenced and determined by social phenomena and the medical system itself? How does the way people come to view the world have concrete and measurable effects on their health? How do people cognitively construct medically relevant concepts, such as diagnostic categories, and how do these constructions in turn influence medical care and human experience? We will consider diverse examples, ranging from childbirth to plastic surgery to mental illness to cardiac care.


**February 23 (Tuesday)**

**VII. Death and Dying**

We will explore the nature of dying in the U.S. and what might be done to improve end-of-life care. We will consider the nature of a good death, how death affects family members, and where death occurs. We will examine how social policy or clinical arrangements (e.g., with respect to hospice care) affect the experience of dying. We will discuss the role of physician decision-making and begin to consider the process by which physicians are socialized to their role as doctors.


February 25 (Thursday) and March 2 (Tuesday)
The COVID-19 Pandemic

We will explore the virology, epidemiology, and public health impact of the once-in-a-century COVID-19 pandemic we are living through. We will review the deployment of “non-pharmaceutical interventions” as well as the development of medicines, including vaccines, to respond to the threat. We will explore the social and psychological responses to epidemic disease (including grief, fear, denial, and the blaming of others) and the social and economic impact. And we will position the COVID-19 pandemic in the long history of deadly outbreaks that have afflicted our species. It may be tempting to discuss the COVID-19 pathogen (SARS-CoV-2) in comparison to the pathogens described in Contagion or World War Z or both; both movies offer certain insights regarding severe outbreaks, ranging from the latent period of a pathogen to the necessity of international cooperation.

VIII. Session 1: Onset, Epidemiology, and Impact of the COVID-19 Pandemic (February 25)


IX. Session 2: Long-term Responses to the COVID-19 Pandemic (March 2)


X. March 4 (Thursday)
MIDTERM #1

March 9 (Tuesday): NO CLASS

March 11 (Thursday)
XI. Iatrogenesis and Medical Error

How common and serious are medical errors? What is the difference between harm, error, and maloccurrence? What is a “therapeutic misadventure”? How do physicians cope with the inevitability of mistakes and harm? In what ways is “iatrogenesis” (doctor-caused injury) a widespread socio-medical phenomenon? Why does harm occur and what, if anything, can be done about it? What ethical and policy issues are raised by medical mistakes?

Classen DC, et al. ‘Global trigger tool’ shows that adverse events in hospitals may be ten times greater than previously measured. *Health Affairs* 2011; 30: 581-589.

**March 16 (Tuesday) and March 18 (Thursday)**

**Health Behaviors**

How do individuals’ choices and behaviors affect individuals’ health risks and health status? We will consider a range of health-related behaviors that are socially patterned and that can have substantial effects on both individual and population health. We will also explore the role of broader social policies and environmental effects on individual outcomes.

**XII. Session 1: Obesity and Exercise (March 16)**


**XIII. Session 2: Tobacco, Alcohol, and Firearms (March 18)**


**March 23 (Tuesday), March 25 (Thursday), and March 30 (Tuesday)**

**Inequality, Social Hierarchy, Stress, and Social Support**

What do baboons in the Serengeti, civil servants in London, and actors in Hollywood have in common? How does relative position, and not just absolute position, matter to health? How can
social structure be stressful? How can it be salubrious? What are the health consequences of stress and how might an individual’s social support buffer the adverse effect of stress on health?

XIV. Session 1: Social Inequality and Individual Health (March 23)

Subramanian SV and Kawachi I. Income Inequality and Health: What Have We Learned So Far? Epidemiologic Reviews 2004; 26: 78–91.

XV. Session 2: Stress, Status, and Social Hierarchy (March 25)


XVI. Session 3: Social Support and the Health Benefits of Relationships (March 30)

Cohen S et al. Social Ties and Susceptibility to the Common Cold. JAMA 1997; 277: 1940–1944.

XVII. April 1 (Thursday)

Neighborhood Effects on Health

We will consider how neighborhoods, as a particular form of collective social structure, may influence individual health. We will examine how local social capital and collective efficacy play a role in health. And we will examine how local physical infrastructure and medical resources affect health. In the process, we will examine geographic variation in a large variety of seemingly objective medical procedures, including the striking differences in care at the end of life and the widely varying patterns of elective surgery across the U.S.. And we will consider the phenomenon of “physician-induced demand” for medical care.


XVIII. April 6 (Tuesday)

MIDTERM #2

April 8 (Thursday): NO CLASS

April 13 (Tuesday), April 15 (Thursday), and April 20 (Tuesday)

Health and Social Networks

Can there be a non-biological transmission of disease? How does the health care delivered to one person affect the health of others? Does treating depression in parents prevent asthma in their children? Does weight gain or seatbelt use or drinking by those close to you directly affect your health? We will examine the difference between social support (measured at the individual level) and social networks (construed at the group level); and we will consider how illness and health-related phenomena (ranging from sexual practices to smoking to obesity to emotions) might spread within a social network and result in positive and negative “externalities.” We will explore the evolutionary significance and biological basis for social network structure and function. We will consider very new work involving interventions in online and offline networks to improve health, including a variety of experiments in this area. We will also evaluate some of the ethical implications of using network methods to target interventions. And we will introduce the idea of *computational social science* and of *big data*.

XIX. Session 1: Social Network Function (April 13)


XX. Session 2: Social Network Structure (April 15)


XXI. Session 3: Social Network Interventions (April 20)


**April 22 (Thursday)**

**XXII. Social Capital**

We will examine the very important concept of “social capital,” first advanced by Coleman in 1988, and also the nature of “emergent” properties of social systems. How and why do groups of people come to have properties that do not inhere in the individuals themselves? And to what productive ends, both good and bad, might social capital be put—by individuals and by policymakers?


**XXIII. April 27 (Tuesday)**

**Behavior Genetics, Gene-Environment Interactions, and Social Epigenetics**

We will consider the cutting-edge field of *biosocial science*, and in particular focus on the ways in which our genes are in conversation with our social environment. To what extent does our genetic makeup influence our behaviors? To what extent do our genes increase or decrease our risk for illness given particular environmental exposures? What are the biological bases of resilience? How does the social environment come to regulate our genome? And how do social exposures “get under our skin”? How are they literally embodied?


April 29 (Thursday), May 4 (Tuesday), and May 6 (Thursday)
Public Policy and Health and Health Care

We will examine some macro and micro public policies that can affect individual and public health. As a powerful illustration, we will examine how society might respond to the emergence of new bio-technologies that promise to provide “super-human” enhancements to the human body, and we will consider moral aspects of these developments as well as how society might regulate them. We will also consider the implications of having or not having health insurance for the health of Americans. We will close with a consideration of some illustrative individual, local, and national efforts to improve the health of the public, and with a recapitulation of the fundamental tension between individual and collective perspectives on health and health care. And we will discuss what a new era of “big data” can offer public policy as it relates to health and health care.

XXIV. Session 1: Social Control of Individual Use of New Biotechnologies (April 29)


XXV. Session 2: A Selection of Policy Interventions (May 4)


XXVI. Session 3: Public Health and Individual Experience (May 6)

Take-Home Final Exam
The exam will be distributed no later than May 6 (probably at 5:00 p.m. that day) and will be due approximately a week later, as will be discussed in class.