

Essentials of Global Health

Summer term 2016

Lecturer:

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Course Dates:

- April 12,19,26,27, May3,4
- May 24, 25,31,June1
- June 21,22,28, 29
- No class: April 13, 20
- Potential tutorial dates: May 10, 11, 17, 18, June7, 8, 14, 15,
- July 5,6 (on some dates there will be no class)

Course Location:

Tuesday: VG1.101
Wednesday: VG0.110

Purpose

The course will introduce students to the main concepts of the public health field and the critical links between global health and economic development. Students will get an overview of the determinants of health and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will be global in coverage but with a focus on low- and middle-income countries and on the health of the poor.

Grading

Each student has to complete a homework assignments and a final exam. Assignments will include 2 policy briefs. The assignments count for 50% of your final grade. The final exam counts for 50% of your final grade.

Textbooks

Skolnik, R. (2015). *Global health 101*. Jones & Bartlett Publishers.

Content

1. Introduction
2. Global Burden of Disease
3. Health and Development 1
4. Health and Development 2
5. Demographic Transition
6. Early Childhood Origins of Development
7. Social Determinants of Health
8. Social Networks and Health
9. Research Ethics
10. Health Systems 1
11. Health Systems 2
12. Health Behavior in Developing Countries
13. Communicable Diseases
14. Non-Communicable Diseases

1. Introduction

Bloom, B.R. (2005). Public Health in Transition, *Scientific American*, Sep 2005, 92-99

Public Health in Germany – Structures, Developments and Global Challenges, (2015), German National Academy of Sciences Leopoldina

Rose, G. (2001). Sick individuals and sick populations. *International journal of epidemiology*, 30(3), 427-432.

UN (2015), The Millennium Development Goals Report 2015, New York

2. Global Burden of Disease

- Lim et al. (2012). A Comparative Risk Assessment of Burden of Disease and Injury Attributable to 67 Risk Factors and Risk Factor Clusters in 21 Regions, 1990–2010: a Systematic Analysis for the Global Burden of Disease Study 2010. *Lancet*; 380:2224-60
- Lozano et al. (2012). Global and Regional Mortality from 235 Causes of Death for 20 Age Groups in 1990 and 2010: a Systematic Analysis for the Global Burden of Disease Study 2010. *Lancet*; 380:2095-128
- Murray et al. (2012). Disability-adjusted Life Years (DALYs) for 291 Diseases and Injuries in 21 Regions, 1990–2010: a Systematic Analysis for the Global Burden of Disease Study 2010. *Lancet*; 380:2197-223
- Salomon et al., (2012). Common Values in Assessing Health Outcomes from Disease and Injury: Disability Weights Measurement Study for the Global Burden of Disease Study 2010. *Lancet*; 380:2129-43

3. Health and Development 1

- Acemoglu, D., & Johnson, S. (2007). Disease and development: the effect of life expectancy on economic growth. (No. w12269), National Bureau of Economic Research.
- Bloom, D. E., & Canning, D. (2000). The health and wealth of nations. *Science(Washington)*, 287(5456), 1207-1209.
- Bloom, David E., Canning, D., Fink, G. (2014). Disease and Development Revisited. *J.P.E.* 122(6):1355–66.
- Preston, S. H. (2007). The changing relation between mortality and level of economic development. *International journal of epidemiology*, 36(3), 484-490.

4. Health and Development 2

- Pritchett, L., & Summers, L. H. (1996). Wealthier is healthier. *Journal of Human resources*, 841-868.
- Singh, A. (2014). Why are economic growth and reductions in child undernutrition so weakly correlated—and what can public policy do?. *The Lancet Global Health*, 2(4), e185-e186.
- Rhum, C.J. (2000). Are Recessions Good for Your Health? *The Quarterly Journal of Economics*, Vol. 115, No. 2 pp. 617-650
- Vollmer, S., Harttgen, K., Subramanyam, M. A., Finlay, J., Klasen, S., & Subramanian, S. V. (2014). Association between economic growth and early childhood undernutrition: evidence from 121 Demographic and Health Surveys from 36 low-income and middle-income countries. *The lancet global health*, 2(4), e225-e234.

5. Demographic Transition

Bloom, D. E. (2011). 7 billion and counting. *Science*, 333(6042), 562-569.

Canning, D., Raja, S., & Yazbeck, A. S. (Eds.). (2015). *Africa's Demographic Transition: Dividend or Disaster?*. World Bank Publications.

Harttgen, K., & Vollmer, S. (2014). A reversal in the relationship of human development with fertility?. *Demography*, 51(1), 173-184.

Strulik, H., & Vollmer, S. (2015). The fertility transition around the world. *Journal of Population Economics*, 28(1), 31-44.

6. Early Childhood Origins of Development

Almond, D. (2006). Is the 1918 Influenza pandemic over? Long-term effects of in utero Influenza exposure in the post-1940 US population. *Journal of political Economy*, 114(4), 672-712.

Almond, D., & Mazumder, B. (2011). Health capital and the prenatal environment: the effect of Ramadan observance during pregnancy. *American Economic Journal: Applied Economics*, 56-85.

Case, A., Lubotsky, D., & Paxson, C. (2001). *Economic status and health in childhood: The origins of the gradient* (No. w8344). National Bureau of Economic Research.

Kumar, S., Molitor, R., & Vollmer, S. (2016). Drought and Early Child Health in Rural India. *Population and Development Review*, 42(1), 53-68.

7. Social Determinants of Health

Marmot, M. (2008). Closing the Gap in a Generation. WHO report

Marmot, M. G., Allen, J., Goldblatt, P., Boyce, T., McNeish, D., Grady, M., & Geddes, I. (2010). Fair society, healthy lives: Strategic review of health inequalities in England post-2010.

Sen, A. (2006). Why Health Equity? *Health Economics*, 11:659-666

Smith, G. D., & Ebrahim, S. (2003). 'Mendelian randomization': can genetic epidemiology contribute to understanding environmental determinants of disease?. *International journal of epidemiology*, 32(1), 1-22.

8. Social Networks and Health

Christakis, Nicholas A. and James H. Fowler. 2007. The spread of obesity in a large social network over 32 years. *The New England Journal of Medicine* 357, no. 4: 370-379

Cohen-Cole, E., & Fletcher, J. M. (2008). Is obesity contagious? Social networks vs. environmental factors in the obesity epidemic. *Journal of health economics*, 27(5), 1382-1387.

Fowler, J. H., & Christakis, N. A. (2008). Estimating peer effects on health in social networks: a response to Cohen-Cole and Fletcher; Trogdon, Nonnemaker, Pais. *Journal of health economics*, 27(5), 1400.

Ludwig, J., Sanbonmatsu, L., Gennetian, L., Adam, E., Duncan, G. J., Katz, L. F., ... & McDade, T. W. (2011). Neighborhoods, obesity, and diabetes—a randomized social experiment. *New England Journal of Medicine*, 365(16), 1509-1519.

Smith, K. P., & Christakis, N. A. (2008). Social networks and health. *Annu. Rev. Sociol*, 34, 405-429.

Trogdon, J. G., Nonnemaker, J., & Pais, J. (2008). Peer effects in adolescent overweight. *Journal of health economics*, 27(5), 1388-1399.

9. Research Ethics

Angell, M. (1997). The ethics of clinical research in the Third World. *New England journal of medicine*, 337, 847-848.

The Belmont Report (1979). Ethical Principles And Guidelines For The Protection Of Human Subjects Of Research. National Commission for the Protection of Human Subjects Of Biomedical And Behavioral Research

The Nuremberg Code (1949). From: Trials of War Criminals before the Nuremberg Military Tribunals under Control Council Law No. 10. Nuremberg, October 1946–April 1949. Washington, D.C.: U.S. G.P.O, 1949–1953.

World Medical Association. (2013). World Medical Association Declaration of Helsinki: ethical principles for medical research involving human subjects. *Jama*, 310(20), 2191.

10. Health Systems 1

Declaration of Alma-Ata (1978). International Conference on Primary Health Care, Alma-Ata, USSR, 6-12

Frenk, J., González-Pier, E., Gómez-Dantés, O., Lezana, M. A., & Knaul, F. M. (2006). Comprehensive reform to improve health system performance in Mexico. *The Lancet*, 368(9546), 1524-1534.

King, G., Gakidou, E., Imai, K., Lakin, J., Moore, R. T., Nall, C., ... & Ávila, M. H. (2009). Public policy for the poor? A randomised assessment of the Mexican universal health insurance programme. *The lancet*, 373(9673), 1447-1454.

World Health Organization. (2000). *The world health report 2000: health systems: improving performance*. World Health Organization.

11. Health Systems 2

Bloom, B. R. (2011). WHO needs change. *Nature*, 473(7346), 143-145.

Frenk, J. (2010). The global health system: strengthening national health systems as the next step for global progress. *PLoS Med*, 7(1), e1000089.

Lu, C., Schneider, M. T., Gubbins, P., Leach-Kemon, K., Jamison, D., & Murray, C. J. (2010). Public financing of health in developing countries: a cross-national systematic analysis. *The Lancet*, 375(9723), 1375-1387.

Salama, P., Spiegel, P., Talley, L., & Waldman, R. (2004). Lessons learned from complex emergencies over past decade. *The Lancet*, 364(9447), 1801-1813.

12. Health Behavior in Developing Countries

Cohen, J., & Dupas, P. (2007). Free distribution or cost-sharing? Evidence from a randomized malaria prevention experiment. *The Quarterly Journal of Economics*, Vol. CXXV February 2010 Issue 1.

Dupas, P. (2011). Health behavior in developing countries. *Annu. Rev. Econ.*, 3(1), 425-449.

Dupas, P. (2011). Do teenagers respond to HIV risk information? Evidence from a field experiment in Kenya. *American Economic Journal: Applied Economics* 3 (January 2011): 1–34.

Thornton, R. L. (2008). The demand for, and impact of, learning HIV status. *The American economic review*, 98(5), 1829.

13. Communicable Diseases

Banerjee, A. V., Duflo, E., Glennerster, R., & Kothari, D. (2010). Improving immunisation coverage in rural India: clustered randomised controlled evaluation of immunisation campaigns with and without incentives. *Bmj*, 340, c2220.

Dupas, P., Cohen, J., & Schaner, S. (2014). Price Subsidies, Diagnostic Tests, and Targeting of Malaria Treatment: Evidence from a Randomized Controlled Trial. *American Economic Review*, 105(2): 609–645.

UNAIDS (2013). Global Report: UNAIDS report on the global AIDS epidemic 2013. Joint United Nations Programme on HIV/AIDS

WHO (2014). World malaria report 2014. World Health Organization.

14. Non-Communicable Diseases

Black, R. E., Victora, C. G., Walker, S. P., Bhutta, Z. A., Christian, P., De Onis, M., ... & Uauy, R. (2013). Maternal and child undernutrition and overweight in low-income and middle-income countries. *The Lancet*, 382(9890), 427-451.

Hoddinott, J., Maluccio, J. A., Behrman, J. R., Flores, R., & Martorell, R. (2008). Effect of a nutrition intervention during early childhood on economic productivity in Guatemalan adults. *The lancet*, 371(9610), 411-416.

Prince, M., Patel, V., Saxena, S., Maj, M., Maselko, J., Phillips, M. R., & Rahman, A. (2007). No health without mental health. *The lancet*, 370(9590), 859-877.

World Health Organization. (2011). Global Status Report on Noncommunicable Diseases 2010. *Geneva: World Health Organization*.