

**HPA 591a**  
**Global Health Economics**  
**Fall 2011**  
*Tuesdays 5-7pm*  
*60 College Street, Room 101*

**Professor**

Achyuta Adhvaryu  
[achyuta.adhvaryu@yale.edu](mailto:achyuta.adhvaryu@yale.edu)  
Office hours: Tuesdays 9-10am  
60 College Street, Room 302

**Teaching Fellow**

Alex Bowles  
[alexander.bowles@yale.edu](mailto:alexander.bowles@yale.edu)  
Office hours: Thursdays 11am-12pm  
Location TBA

**Course Summary**

This course is designed to provide an understanding of several major issues in the organization, delivery and financing of health care in developing countries. The course draws heavily on concepts in economics that have been applied to problems in global health. The course covers the following broad areas of study: the health workforce; access to essential medicines; healthcare financing; encouraging prevention; and conditional cash transfers and health. In addition, it addresses the following specific issues: HIV/AIDS; malaria; water; nutrition; and helminth infections.

**Student Responsibilities**

Students are responsible for four things over the course of the semester.

First, each student will submit 3 referee reports (2 pages maximum, single-spaced) on any of the assigned readings in the course. The referee report is essentially a thoughtful summary and critique of an academic paper. Reports will be due before the start of the class in which they are discussed (no exceptions), and should be uploaded to classes\*v2. Prof. Adhvaryu will send out a document containing guidelines for writing a good referee report.

Second, students will work in groups on five case studies related to material covered in the class. Groups will do the majority of the work for case studies during the designated lectures, and will then write up their key findings and conclusions after each case study session is complete. *Attendance during case studies is required.* If you cannot attend, please notify Prof. Adhvaryu or the teaching fellow at least 24 hours before the lecture. If not, the student will lose the points for the missed case study. The 1-2 page write-ups for each case should be submitted online via classes\*v2 before the beginning of the subsequent class. Each case study write-up will count for 5% of the class grade; as there are a total of five case studies, the total group case study portion of the grade will equal 25%.

Third, the class will be assigned a policy memo (no longer than 1500 words, not including references). In the memo, you will describe a specific challenge in developing country health care, assess status quo policies, discuss the underlying conceptual issues (including a critical reading of the related academic literature), and suggest policy improvements based on this reading and your knowledge of the context. Each student should write his or her memo individually. The memo will count for 30% of the total grade. *The paper will be due on November 1<sup>st</sup> at 5pm, at the beginning of class. Late papers will not be accepted.*

Fourth, students will give a group final presentation, worth 20% of the total grade. The presentations will take place on November 29<sup>th</sup>, during the final scheduled lecture hours. In small groups, you will prepare a slide deck and present on selected topics in global health economics, centered on one (assigned) academic paper. *The final presentations will not involve a write-up of any kind; each group will be evaluated based only on the ideas they present.*

### Summary of Grading

25%	3 referee reports (8.33% each)
30%	Policy memo
25%	5 group case studies
20%	Group final presentation

### Schedule and Topics

#### 1) September 6, 2011: The Health Workforce

##### a. Literature

- i. World Health Organization. 2006. World Health Report – Health Workers: A Global Profile. Chapter 1. World Health Report.  
[http://www.who.int/whr/2006/06\\_chap1\\_en.pdf](http://www.who.int/whr/2006/06_chap1_en.pdf)
- ii. Banerjee, A. V, E. Duflo, and R. Glennerster. 2008. “Putting a Band-Aid on a corpse: Incentives for nurses in the Indian public health care system.” *Journal of the European Economic Association*, 6 (2-3): pp.487–500.  
<http://www.povertyactionlab.org/sites/default/files/publications/Putting%20a%20Band%20Aid%20on%20a%20Corpse.pdf>
- iii. (\*) Björkman, M., and J. Svensson. 2009. “Power to the People: Evidence from a Randomized Field Experiment on Community-Based Monitoring in Uganda\*.” *Quarterly Journal of Economics* Vol. 124 (2): pp. 735–769.  
<http://www.povertyactionlab.org/publication/power-people-evidence-randomized-field-experiment-community-based-monitoring-project-uganda>
- iv. Nazmul Chaudhury, Jeffrey Hammer, Michael Kremer, Karthik Muralidharan and F. Halsey Rogers. 2006. “Missing in Action: Teacher and Health Worker Absence in Developing Countries.” *The Journal of Economic Perspectives*, Vol. 20, No. 1: pp. 91-116.  
<http://www.jstor.org/stable/30033635>

#### 2) September 13, 2011: Access to Essential Medicines

##### a. Literature

- i. Banerjee, A., A. Hollis, and T. Pogge. 2010. "The Health Impact Fund: incentives for improving access to medicines." *Lancet* Vol. 375 (9709): pp. 166–169. [http://www.gg-stiftung.ch/UserFiles/File/pogge\\_health\\_impact\\_fund.pdf](http://www.gg-stiftung.ch/UserFiles/File/pogge_health_impact_fund.pdf)
- ii. Aidan Hollis and Thomas Pogge. *The Health Impact Fund: Making New Medicines Accessible to All* (Incentives for Global Health, 2008). <http://www.yale.edu/macmillan/igh/hif.html>. Chapters 1 (Summary Overview) and 8 (An Economic Analysis of Patents and the Health Impact Fund).
- iii. Kremer, Michael. 2002. "Pharmaceuticals and the Developing World." *Journal of Economic Perspectives*, Vol. 16, no. 4: pp. 67-90. <http://www.jstor.org/stable/3216915>

### 3) September 20, 2011: Healthcare Financing: User fees/Incentives

#### a. Literature

- i. Dupas, Pascaline. 2011. "Global Health Systems: Pricing and User Fees". University of California, Los Angeles & NBER. Prepared for the *Elsevier Encyclopedia of Health Economics*. [http://www.econ.ucla.edu/pdupas/Dupas\\_Pricing&UserFees.pdf](http://www.econ.ucla.edu/pdupas/Dupas_Pricing&UserFees.pdf)
- ii. Holla, A., and M. Kremer. 2009. "Pricing and access: Lessons from randomized evaluations in education and health." Center for Global Development Working Paper No. 158. [http://www.poverty-action.org/sites/default/files/Pricing%20and%20Access\\_080803.pdf](http://www.poverty-action.org/sites/default/files/Pricing%20and%20Access_080803.pdf)
- iii. (\*) Banerjee, A. V, E. Duflo, R. Glennerster, and D. Kothari. 2010. "Improving immunisation coverage in rural India: clustered randomised controlled evaluation of immunisation campaigns with and without incentives." *British Medical Journal* 340 doi: 10.1136/bmj.c2220 <http://www.povertyactionlab.org/publication/improving-immunization-coverage-rural-india-evaluation-immunization-campaigns-and-without-incentives>

#### b. Case Study 1: User Fee Policies

### 4) September 27, 2011: Healthcare Financing: Insurance

#### a. Literature

- i. (\*) Thornton, Rebecca, Laurel Hatt, Erica Field, Mursaleena Islam, Freddy Solís, Martha Azuzena González Moncada. "Social Security Health Insurance for the Informal Sector in Nicaragua: A Randomized Evaluation." *Health Economics*, Volume 19, Issue S1, September. Pages: 181–206. 2010. <http://onlinelibrary.wiley.com/doi/10.1002/hec.1635/abstract>
- ii. (\*) Ranson et al. 2007. "Equitable utilization of Indian community based health insurance scheme among its rural membership: cluster randomized controlled trial." *British Medical Journal*, doi: 10.1136/bmj.39192.719583.AE <http://www.bmj.com/content/334/7607/1309.abstract>

- iii. Pauly, Mark, Peter Zweifel, Richard Scheffler, Alexander Preker, and Mark Bassett. 2006. "Private Health Insurance in Developing Countries." *Health Affairs*, vol. 25, no. 2: pp. 369-379.  
<http://content.healthaffairs.org/content/25/2/369.short>

## 5) October 4, 2011: Preventative Behaviors

### a. Literature

- i. Dupas, Pascaline. 2011. "Health Behavior in Developing Countries." *Annual Review of Economics* 3 (1).  
[http://www.econ.ucla.edu/pdupas/AR\\_health\\_behavior.pdf](http://www.econ.ucla.edu/pdupas/AR_health_behavior.pdf)
- ii. (\*) Dupas, P., and J. Robinson. 2011. "Why Don't the Poor Save More? Evidence from Health Savings Experiments." Unpublished manuscript, Univ. Calif., Los Angeles.  
[http://www.econ.ucla.edu/pdupas/DupasRobinson\\_HealthSavings.pdf](http://www.econ.ucla.edu/pdupas/DupasRobinson_HealthSavings.pdf)
- iii. (\*) Meredith, J., J. Robinson, S. Walker, and B. Wydick. 2011. "Keeping the Doctor Away: Experimental Evidence on Investment in Preventative Health Products." Unpublished manuscript.  
<http://www.povertyactionlab.org/doc/keeping-doctor-away-experimental-evidence-investment-preventative-health-products>

### b. [Case Study 2: Information Campaigns for Prevention and Treatment](#)

## 6) October 11, 2011: Conditional Cash Transfers and Health

### a. Literature

- i. (\*) Gertler, Paul. 2004. "Do Conditional Cash Transfers Improve Child Health? Evidence from PROGRESA's Control Randomized Experiment." *The American Economic Review* 94 (2) (May 1): 336-341.  
<http://www.jstor.org/stable/3592906>
- ii. (\*) Fernald, L. C. H, P. J Gertler, and L. M Neufeld. 2008. "Role of cash in conditional cash transfer programmes for child health, growth, and development: an analysis of Mexico's Oportunidades." *The Lancet* 371 (9615): 828-837.  
<http://www.who.int/management/country/mex/RoleofCashConditionalCashTransferMexicosOportunidades.pdf>
- iii. Lagarde, Mylene, A. Haines, and N. Palmer. 2007. "Conditional Cash Transfers for Improving Uptake of Health Interventions in Low- and Middle-Income Countries." *JAMA: The Journal of the American Medical Association* 298 (16): 1900 -1910. doi:10.1001/jama.298.16.1900.:  
[http://apps.who.int/rhl/effective\\_practice\\_and\\_organizing\\_care/SUPPORT\\_JAMA\\_cash\\_.pdf](http://apps.who.int/rhl/effective_practice_and_organizing_care/SUPPORT_JAMA_cash_.pdf)

### b. [Case Study 3: Incentives for Stove Adoption](#)

## 7) October 18, 2011: HIV/AIDS

### a. Literature

- i. (\*) Duflo, E., P. Dupas, and M. Kremer. 2011. "Education, HIV, and Early Fertility: Experimental Evidence from Kenya." Unpublished manuscript,

Univ. Calif., Los Angeles.

[http://www.econ.ucla.edu/pdupas/DDK\\_EducFertHIV.pdf](http://www.econ.ucla.edu/pdupas/DDK_EducFertHIV.pdf)

- ii. (\*) Dupas, Pascaline. 2011. "Do Teenagers Respond to HIV Risk Information? Evidence from a Field Experiment in Kenya." *American Economic Journal: Applied Economics* 3 (1) (January): 1-34. doi:10.1257/app.3.1.1. [http://www.econ.ucla.edu/pdupas/HIV\\_teenagers.pdf](http://www.econ.ucla.edu/pdupas/HIV_teenagers.pdf)
- iii. (\*) Thornton, Rebecca L. 2008. "The Demand for, and Impact of, Learning HIV Status." *American Economic Review* 98 (5) (November): 1829-1863. doi:10.1257/aer.98.5.1829. [http://www-personal.umich.edu/~rebeccal/RebeccaLThornton/Home\\_files/Thornton.2008.AER.HIVTesting.pdf](http://www-personal.umich.edu/~rebeccal/RebeccaLThornton/Home_files/Thornton.2008.AER.HIVTesting.pdf)
- iv. Angotti, Nicole, A. Bula, L. Gaydosh, E. Z. Kimchi, R. L. Thornton, and S. E. Yeatman. 2009. "Increasing the acceptability of HIV counseling and testing with three C's: Convenience, confidentiality and credibility." *Social Science & Medicine* 68 (12) (June): 2263-2270. doi:10.1016/j.socscimed.2009.02.041. <http://www.povertyactionlab.org/sites/default/files/publications/277%20Acceptability%20of%20HIV%20Testing.pdf>

b. [Case Study 4: HIV/AIDS treatment and prevention](#)

**8) October 25, 2011: Malaria**

a. *Literature*

- i. (\*) Cohen, Jessica, P. Dupas and S. Schaner. 2011. Price Subsidies, Diagnostic Tests, and Targeting of Malaria Treatment: Evidence from a Randomized Controlled Trial. Unpublished manuscript. [http://www.econ.ucla.edu/pdupas/CohenDupasSchaner\\_ACT.pdf](http://www.econ.ucla.edu/pdupas/CohenDupasSchaner_ACT.pdf)
- ii. (\*) Dupas, Pascaline. 2010. Short-run subsidies and long-run adoption of new health products: evidence from a field experiment. Unpublished manuscript. University of California, Los Angeles & NBER. <http://www.econ.ucla.edu/pdupas/Subsidies&Adoption.pdf>
- iii. (\*) Cohen, Jessica and Pascaline Dupas. 2010. "Free Distribution or Cost-Sharing? Evidence from a Randomized Malaria Prevention Experiment." *Quarterly Journal of Economics*, Vol. 125, no. 1: pp. 1-45. <http://www.econ.ucla.edu/pdupas/CohenDupas.pdf>

b. [Case Study 5: Insecticide-treated bed nets and health externalities](#)

**9) November 1, 2011: Water**

a. *Literature*

- i. (\*) Ashraf, Nava, James Berry, and Jesse M. Shapiro. 2007. "Can Higher Prices Stimulate Product Use? Evidence from a Field Experiment in Zambia." National Bureau of Economic Research Working Paper Series No. 13247 (July). <http://www.arts.cornell.edu/econ/jwb295/clorin.pdf>
- ii. (\*) Devoto, Florencia, E. Duflo, P. Dupas, William Pariente, and Vincent Pons. 2011. "Happiness on Tap: Piped Water Adoption in Urban

Morocco.” National Bureau of Economic Research Working Paper Series No. 16933 (April). <http://www.nber.org/papers/w16933>.

<http://www.econ.ucla.edu/pdupas/MoroccoWaterConnections.pdf>

- iii. (\*) Kremer, Michael, Jessica Leino, Edward Miguel, and Alix Peterson Zwane. 2011. “Spring Cleaning: Rural Water Impacts, Valuation, and Property Rights Institutions.” *The Quarterly Journal of Economics* 126 (1) (February 1): 145 -205. doi:10.1093/qje/qjq010.  
<http://www.povertyactionlab.org/spring-cleaning-rural-water-impacts-valuation-and-institutions>
- iv. (\*) Bennett, Daniel. 2012. “Clean Water Makes You Dirty: Water Supply and Sanitation Behavior in the Philippines.” Forthcoming, *Journal of Human Resources*. <http://home.uchicago.edu/~dmbennett/sanitation.pdf>

## 10) November 8, 2011: Nutrition

### a. Literature

- i. Bhutta, Zulfiqar A, Tahmeed Ahmed, Robert E Black, Simon Cousens, Kathryn Dewey, Elsa Giugliani, Batool A Haider, et al. 2008. “What works? Interventions for maternal and child undernutrition and survival.” *The Lancet* 371 (9610) (February 2): 417-440. doi:16/S0140-6736(07)61693-6.  
<http://www.sciencedirect.com/science/article/pii/S0140673607616936>
- ii. Martorell, R, J P Habicht, and J A Rivera. 1995. “History and design of the INCAP longitudinal study (1969-77) and its follow-up (1988-89).” *The Journal of Nutrition* 125 (4 Suppl) (April): 1027S-1041S.  
[http://jn.nutrition.org/content/125/4\\_Suppl/1027S.full.pdf](http://jn.nutrition.org/content/125/4_Suppl/1027S.full.pdf)
- iii. (\*) Hoddinott, John, John A Maluccio, Jere R Behrman, Rafael Flores, and Reynaldo Martorell. 2008. “Effect of a nutrition intervention during early childhood on economic productivity in Guatemalan adults.” *The Lancet* 371 (9610) (February 2): 411-416. doi:16/S0140-6736(08)60205-6.  
<http://www.sciencedirect.com/science/article/pii/S0140673608602056>
- iv. Grosse, Scott D and Kakoli Roy. 2008. “Long-term economic effect of early childhood nutrition.” *The Lancet* 371 (9610) (February 2): 365-366. doi:16/S0140-6736(08)60180-4.  
<http://www.sciencedirect.com/science/article/pii/S0140673608601804>
- v. (\*) Bobonis, Gustavo, Edward Miguel and Charu Puri Sharma. 2006. *Journal of Human Resources*.  
[http://www.povertyactionlab.org/sites/default/files/publications/9\\_Miguel\\_Iron\\_Deficiency\\_and\\_Participation.pdf](http://www.povertyactionlab.org/sites/default/files/publications/9_Miguel_Iron_Deficiency_and_Participation.pdf)

## 11) November 15, 2011: Helminth infections

### a. Literature

- i. (\*) Baird, Sarah, Joan Amory Hicks, Michael Kremer and Edward Miguel. 2011. Worms at Work: Long-run Impacts of Child Health Gains. Unpublished manuscript.  
[http://emlab.berkeley.edu/users/emiguel/pdfs/miguel\\_wormsatwork.pdf](http://emlab.berkeley.edu/users/emiguel/pdfs/miguel_wormsatwork.pdf)

- ii. (\*) Miguel, Edward, and Michael Kremer. 2004. "Worms: Identifying Impacts on Education and Health in the Presence of Treatment Externalities." *Econometrica* 72 (1) (January 1): 159-217.  
doi:10.1111/j.1468-0262.2004.00481.x.  
<http://www.povertyactionlab.org/publication/worms-identifying-impacts-education-and-health-presence-treatment-externalities-econometrica-2004>
- iii. (\*) Kremer, Michael, and Edward Miguel. 2007. "The Illusion of Sustainability." *The Quarterly Journal of Economics* 122 (3): 1007 -1065.  
doi:10.1162/qjec.122.3.1007.:  
[http://www.povertyactionlab.org/sites/default/files/publications/17\\_Kremer\\_Sustainability\\_Illusion.pdf](http://www.povertyactionlab.org/sites/default/files/publications/17_Kremer_Sustainability_Illusion.pdf)

**12) November 29, 2011: Final Presentations**