

**AFRICAN ECONOMIC RESEARCH CONSORTIUM
(AERC)**

**COLLABORATIVE PHD DEGREE PROGRAMME
IN ECONOMICS FOR SUB-SAHARAN AFRICA
(CPP)**

JOINT FACILITY FOR ELECTIVES



HEALTH ECONOMICS

COURSE OUTLINE

(Revised April, 2016)



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INTRODUCTION

This course has been designed primarily for those who wish to specialize in Health Economics at the Ph.D. level. It builds on what has been covered in the Master's module of the Joint Facility for Electives or its equivalent. For each topic, examples and applications to African and other developing countries will be provided.

COURSE GOAL

To advance students' knowledge, understanding and appreciation of health economics as a branch of economics; to broaden their use of economic tools to provide evidence for health policy analysis; and underscore the importance of health in development.

COURSE OBJECTIVES

On completion of this course students should, among other things, be able to:

- (a) Apply economic concepts and techniques to analyze health and health policy and other development related issues;
- (b) Undertake independent research in health economics and health policy;
- (c) Communicate research results to stakeholders; and
- (d) Function professionally in different health care systems.

PREREQUISITES

Students should have passed CPP core courses of Microeconomics, Macroeconomics and Quantitative Methods, or their equivalent.

COURSE STRUCTURE

The course consists of two parts. Part 1 covers individuals, states and markets in health and health-care production. Part 2 covers policy and planning issues in health and development. Each part consists of 60 hours of instruction in a combination of lectures, seminars, and tutorials.

COURSE ASSESSMENT

The final course mark in each part has the following components:

Class presentations (by students)	10 marks
Class Test	15 marks
Course paper	15 marks
<u>Final examination</u>	<u>60 marks</u>
Total	100 marks

The final examination is a 3-hour written paper for each part. The final mark for the course as a whole is the simple average of the marks for the two parts.



MAIN TEXTS FOR THE COURSE

Recommended Text Books

1. Culyer, A.J. and J.P. Newhouse, Eds (2000), *Handbook of Health Economics: Volumes 1A and 1B*, Elsevier, North – Holland.
2. Zweifel, P., F. Breyer and M. Kifmann (2009), *Health Economics*, Second Edition, Springer Verlag, Heidelberg.
3. Culyer, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Background Text Books

1. Folland, S., A. Goodman, and M. Stano (2010), *The Economics of Health and Health Care*, Sixth Edition, Prentice Hall, New Jersey.
2. Santerre, E. and S. P. Neun (1996), *Health Economics: Theory Insights and Industry Studies* Irwin, Chicago.

COURSE DELIVERY

The course will be delivered using lectures, seminars, published articles, assigned readings with emphasis on formal theory and methods, e.g. health econometrics.



TOPICS COVERED

Health Economics I: Individuals, States and Markets in Health and Healthcare Production (60 Hours)

1. Overview of the Normative and Positive Economics of the Health Sector (4 Hours)

- Concept of normative economics of the health sector
- Concept of positive economics of the health sector
- Difference between normative and positive economics of the health sector

2. Individuals as Producers of Health (16 Hours)

2.1 Human Capital Model

- Basic Model
- Investment Model
- Pure Consumption Model
- Empirical Testing
- Extension
- Health and Schooling

2.2. Habits and Lifestyles

- Smoking
- Alcohol and Substance Abuse
- Obesity
- Ageing
- Sexual Behaviour including Contraceptive Use
- The Government and Lifestyle Adjustment for Health

3. States and Markets in Health Production and Health-care (24 Hours)

3.1 Peculiarities of Health-care Goods and their Allocative Implications

- Externalities, Public Goods and Increasing Returns to Scale
- Asymmetric Information between Producers and Consumers

3.2 Government as Producer, Financier and Regulator of Health-care Services

- Role of Government arising from the Peculiarities of Health-care Goods
- Provision of Services
- Own Facilities
- Purchasing/Contracting
- Regulation
- Appropriate Roles of State and Markets

3.3 Health-care Markets

- Market Prices and Outputs
- Agency Issues
- Moral Hazard and Consumer Incentives for Health-care
- The Industrial Organization of Health-care
- Not-for-Profit Ownership and Hospital Behaviour
- Economics of General Practice
- The Pharmaceutical Industry



- Quality of healthcare
- 4. Insurance Markets, Managed Care and Contracting (12 Hours)**
 - The Anatomy of Health Insurance
 - Insurance Reimbursement
 - Optimal Design of Health Insurance Contracts
 - Health Insurance and the Labour Market
 - Social Health Insurance
 - Managed Care



TOPICS COVERED

Health Economics II: Policy and Planning Issues in Health and Development (60 Hours)

5. Health and Development Challenges in Africa (16 Hours)

5.1 Economics of Disease

- Principles of epidemiology
- Disease Burden Measurement and Policy Implications
- Disease Burden Profiles of Africa

5.2 Poverty and Health

- From Poverty to Health: Impact of Nutrition, Education, Overcrowding on Health
- From Health to Poverty: Impact of Poor Health on Labour Market Status
- Impact of ill-health on household wealth

5.3 Growth and Health

- From growth to health
- From health to growth
- Social Determinants of Health
- Environment and health

5.4 Health under shocks/disasters

- Health under conflict
- Health under disease outbreaks (e.g. Ebola, etc)
- Case studies

6. Performance Evaluation of Health Systems (12 Hours)

- Measurement of Health-Related Quality of Life
- Advances in economic evaluation methods
- Healthcare provider Efficiency Analysis
- Performance-based financing
- Equity and Efficiency in Healthcare delivery
- Equity in Healthcare Financing
- The Equity-Efficiency Trade-Off

7. Healthcare Financing, Planning and Programming (12 Hours)

- Health Expenditure and Health Accounts
- Public-Private Partnerships
- Strategic Health Planning
- Scenario Planning
- Operations Research (Goal Programming)
- Stakeholders Analysis
- Advocacy and Consensus Building Tools

8. African Health Systems in the Global Context (16 Hours)

8.1 Comparative Health Systems

- Basis for Comparison



- International Comparison of Health Expenditures and health Outcomes
- Changing Trends in the State-Market Mix

8.2 Globalization and Health

- International Migration of Health Personnel
- Global Public Health Issues
- Trade and Intellectual Property Rights in Health

8.3 Health Sector Reforms

- Health Sector Reforms: Global Context
- African Initiatives in Health Sector Reform
- Current Trends in Health Sector Reform

8.4 Health Policy Development in Africa-issues, perspectives and lessons

- Evidence-based health policy
- Global best practices



SEMESTER I: HEALTH ECONOMICS I (ECON 631)

1. BACKGROUND

1.1 An Overview of the Normative and Positive Economics of the Health Sector

Core Readings on Normative Economics of the Health Sector

1. Culyer, A.J., and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 2.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Mooney, G. and M. Ryan (1993). “Agency in health care: getting beyond first principles”, Journal of Health Economics 12 (2): 123 – 135.
2. Pereira, J. (1993). “What does equity in health mean?” Journal of Social Policy 22 (1): 19 – 48.
3. Plotnick, R. (1982). “The concept and measurement of horizontal equity”, Journal of Public Economics 17 (3): 373 – 391.

Core Readings on the Positive Economics of the Health Sector

1. Culyer, A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 6.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Cameron, A.C. (2014) Inference for Health Econometrics: Inference, Model Tests, Diagnostics, Multiple Tests, and Bootstrap. Encyclopedia of Health Economics, 2014, Pages 47-52
2. Auld, M.C. and Grootendorst, P.V. (2014) Instrumental Variables: Informing Policy Encyclopedia of Health Economics, 2014, Pages 61-66
3. Trivedi, P.K. (2014) Models for Count Data Encyclopedia of Health Economics, 2014, Pages 306-311
4. Greene, W.H. (2014) Models for Discrete/Ordered Outcomes and Choice Models Encyclopedia of Health Economics, 2014, Pages 312-316
5. Terza, J.V. (2014) Instrumental Variables: Methods Encyclopedia of Health Economics, 2014, Pages 67-71
6. Terza, J.V. (2014) Sample Selection Bias in Health Econometric Models Encyclopedia of Health Economics, 2014, Pages 298-301
7. Newhouse, J.P. (1987) “Health economics and econometrics”, American Economic Review, 77: 269 – 244.

2. INDIVIDUALS AS PRODUCERS OF HEALTH

2.1 Human Capital Model

Core Readings

1. Culyer, A.J. and J.P. Newhouse (2000), Handbook of Health Economics, North-Holland, Chapter 7.



2. Zweifel, P., F. Breyer, and M. Kifman (2009) Health Economics, Oxford University Press.
3. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Grossman, M. (1972). "On the concept of human capital and the demand for health". Journal of Political Economy 80:223-255.
2. Zuvekas, S.H. (2014) "Health Care Demand, Empirical Determinants of" Encyclopedia of Health Economics, 2014, Pages 343-354
3. Edward Nketiah-Amponsah, Bernardin Senadza, Eric Arthur, (2013) "Determinants of utilization of antenatal care services in developing countries: Recent evidence from Ghana", African Journal of Economic and Management Studies, Vol. 4 Iss: 1, pp.58 - 73
4. Mwabu G.M (2008). Health economics for low income countries. Chapter 53. Schultz T.P., Strauss J. (Eds). Handbook of Development Economics Vol. 4, Elsevier.
5. Overbosch, G.B., Nsowah-Nuamah, N.N.N., van den Boom, G.J.M., and Damnyag, L. (2004) "Determinants of Antenatal Care Use in Ghana" J Afr Econ (2004) 13 (2): 277-301 doi:10.1093/jae/ejh008

2.2 Habits and Lifestyles

Smoking

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 29.
2. Culyer, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787 chapter ???

Supplementary Readings

1. Forouzanfar MH, Lopez AD, Vos T, Murray CJL (2015) Global, regional, and national comparative risk assessment of 79 behavioral, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2015 Sep 11. doi: 10.1016/S0140-6736(15)61455-6.
2. Sloan, F.A., and Shah, S.P. (2014) "Smoking, Economics of" Encyclopedia of Health Economics, 2014, Pages 316-323.
3. Bagchi, S., and Feigenbaum, J. (2014) "Is smoking a fiscal good?" Review of Economic Dynamics, Volume 17, Issue 1, January 2014, Pages 170-190.
4. Cowan, B., and Schwab, B. (2011) "The incidence of the healthcare costs of smoking" Journal of Health Economics, Volume 30, Issue 5, September 2011, Pages 1094-1102
5. Hockenberry, J.M., Curry, S., Fishman, P.A. et al. "Healthcare Costs Around the Time of Smoking Cessation" American Journal of Preventive Medicine, Volume 42, Issue 6, June 2012, Pages 596-601.
6. Lin, Tsui-Fang (2008) "Modifiable health risk factors and medical expenditures – The case of Taiwan" Social Science & Medicine, Volume 67, Issue 11, December 2008, Pages 1727-1736.
7. Becker, G.S. and K.M. Murphy (1988). 'A theory of rational addiction', Journal of Political Economy 96(4): 675-700.



Alcohol and Substance Abuse

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 30.
2. Carpenter, C. (2014) “Alcohol” Encyclopedia of Health Economics, 2014, Pages 61-66

Supplementary Readings

1. Forouzanfar MH, Lopez AD, Vos T, Murray CJL (2015) Global, regional, and national comparative risk assessment of 79 behavioral, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2015 Sep 11. doi: 10.1016/S0140-6736(15)61455-6.
2. Auld, M.C., and Matheson, J.A. (2014) “Addiction” Encyclopedia of Health Economics, 2014, Pages 19-25.
3. Abegaz, T., Berhane, Y., Worku, A., et al. (2014) Effects of excessive speeding and falling asleep while driving on crash injury severity in Ethiopia: A generalized ordered logit model analysis *Accident Analysis & Prevention*, Volume 71, October 2014, Pages 15-21.

Sexual Behaviour including Contraceptive Use

Core Readings

1. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787
2. Shah, M. (2014) “Sex Work and Risky Sex in Developing Countries” Encyclopedia of Health Economics, 2014, Pages 311-315

Supplementary Readings

1. Forouzanfar MH, Lopez AD, Vos T, Murray CJL (2015) Global, regional, and national comparative risk assessment of 79 behavioral, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2015 Sep 11. doi: 10.1016/S0140-6736(15)61455-6.
2. Ebenstein, A. (2014) Fertility and Population in Developing Countries Encyclopedia of Health Economics, 2014, Pages 300-308.
3. Sau-Him Paul Lau (2014) “Fertility and mortality changes in an overlapping-generations model with realistic demography” *Economic Modelling*, Volume 38, February 2014, Pages 512-521
4. Levinsohn, J., McLaren, Z.M., Shisana, O., and Khangelani, Z. (2013) “HIV Status and Labor Market Participation in South Africa” *Review of Economics and Statistics*, March 2013, Vol. 95, No. 1, Pages 98-108 (doi: 10.1162/REST_a_00237).
5. Baral, S., Beyrer, C., Muessig, K., et al. (2012) “Burden of HIV among female sex workers in low-income and middle-income countries: a systematic review and meta-analysis” *The Lancet Infectious Diseases*, Volume 12, Issue 7, July 2012, Pages 538-549.

Government and Lifestyle Adjustment for Health



Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 31.
2. Cutler, D. and Lleras-Muney, A. (2014) “Education and Health” Encyclopedia of Health Economics, 2014, Pages 232-245

Supplementary Readings

1. Vogl, T.S., (2014) “Education and Health in Developing Economies” Encyclopedia of Health Economics, 2014, Pages 246-249
2. Chatterji, P. (2014) “Education and Health: Disentangling Causal Relationships from Associations” Encyclopedia of Health Economics, 2014, Pages 250-258
3. Xie, S., and Mo, T. (2014) “The impact of education on health in China” China Economic Review, Volume 29, June 2014, Pages 1-18

3. STATES AND MARKETS IN HEALTH AND HEALTH-CARE PRODUCTION

3.1 Peculiarities of Health Goods and their Allocative Implications

Core Readings

1. Zweifel, P., F. Breyer, and M. Kifman (2009) Health Economics, Oxford University Press.

Supplementary Readings

1. Out-of-Pocket Payments, Health Care Access and Utilisation in South-Eastern Nigeria: A Gender Perspective; Michael N. Onah, Veloshnee Govender; PLoS One. 2014; 9(4): e93887. Published online 2014 April 11. doi: 10.1371/journal.pone.0093887
2. Estimating tradeoffs among health care system's objectives: BÎ Dervaux, H Leleu, V Valdmanis, Health Services and Outcomes Research Methodology, 2004 - Springer
3. Arrow, K.J. (1963). “Uncertainty and the welfare economics of medical care”, American Economic Review 53:941-973.

3.2 Government as Producer, Financier and Regulator of Health

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 15.

Supplementary Readings

1. Kutzin, J., (2013) Health financing for universal coverage and health system performance concepts and implications for policy: Bulletin of World Health Organization: 91(8)602-611.
2. Carande- Kulis, V.G. and Getzen,T.E., (2007) Public goods and externalities: a research agenda for public health economics: Journal of Public Health Management & Practice Vol. 13(2) p.227-232.
3. Akin, J., P Hutchinson and K. Strumpf (2005) Decentralisation and government provision of public goods: The public health sector in Uganda: The Journal of Development Studies, - Taylor & Francis.
4. Collier, P., S. Dercon and J. Mackinnon, (2002) Density versus quality in health care provision: using household data to make budgetary choices in Ethiopia; The World Bank Economic Review, 2002; World Bank.



5. Matteo, L.D., (2000) The determinants of the Public- private mix in Canadian healthcare expenditures: 1975-1996.
6. Moran, M. (1995) Three faces of the health care state; - Journal of Health Politics, Policy and Law, 1995 - Duke Univ Press.



3.3 Health Care Markets

Healthcare Prices and Outputs

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 3.
2. Manning, W. G., and H. Mullahy (2001) Estimating log models: To transform or not to transform? Journal of Health Economics, 20: 461–494.

Supplementary Readings

1. Gaynor, M. (2006) What do we know about competition and quality in health care markets? National Bureau of Economic Research; Working Paper No. 12301.
2. Manning, W. G., & Mullahy, H. (2001). Estimating log models: To transform or not to transform? Journal of Health Economics, 20, 461–494.

Moral Hazard and Consumer Incentives for Health Care

Core Reading

1. Culyer, A.J and J.P. Newhouse (2000), Handbook of Health Economics, North-Holland, Chapter 8.

Supplementary Readings

1. Dijk, C.E., B. Berg and R. A Verheij (2013) Moral Hazard and supplier-Induced demand: Empirical Evidence in General Practice: Health Economics 22(3):340-352.
2. Bajari, P., H. Hong and A. Khwaja (2006) Moral hazard, adverse selection and health expenditures: A semi parametric analysis: National Bureau of Economic Research Working Paper No. 12445.

Physician Agency

Core Readings

1. Culyer, A.J and J.P. Newhouse (2000), Handbook of Health Economics, North-Holland, Chapter 9.
2. Zweifel, P., F. Breyer and M. Kifman (2009) Health Economics, Oxford University Press

Supplementary Readings

1. Fleming, C., E. Rich, C. DesRoches, J. Reschovsky and R. Kogan (2015) Measuring Changes in the Economics of Medical Practice, Journal of General Internal Medicine, Supplement 3: 562-567.
2. Rebitzer, JB and ME. Votruba (2011) Organizational Economics and Physician Practices NBER Working Paper No. 17535.

The Industrial Organization of Health Care

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 20.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787.



Supplementary Readings

1. Gaynor, M., C. Propper, S. Seiler (2012) Free to choose? Reform and demand response in the English National Health Service, NBER WP Series n. 18574.
2. Propper, C., S. Burgess and D. Gossage (2008) Competition and quality: Evidence from the NHS internal market 1991-9, *The Economics Journal*, 118:138-70.
3. Propper, C., S. Burgess and K. Green (2004) Does competition between hospitals improve the quality of care? Hospital death rates and the NHS internal market, *Journal of Public Economics*, 88: 1247-72.
4. Baker, L.C. (2001) Measuring competition in healthcare markets, *Health Services Research* 36: (1 Pt. 2): 223-251.

Not-for-Profit Ownership and Hospital Behaviour

Core Readings

1. Culyer, A.J. and J.P. Newhouse (2000). *Handbook of Health Economics*, North – Holland, Chapter 21.
2. Culyer, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787.

Supplementary Readings

1. Duggan, M. (2000) Hospital Market Structure and the Behavior of Not-for-Profit Hospitals: Evidence from Responses to California's Disproportionate Share Program, NBER Working Paper No. 7966.

Economics of General Practice

Core Readings

1. Culyer, A.J. and J.P. Newhouse (2000) *Handbook of Health Economics*, North – Holland, Chapter 22.
2. Culyer, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Iversen, T. and H. Lurås (2002) Waiting Time as a Competitive Device: An Example from General Medical Practice, *International Journal of Health Care Finance and Economics*, Vol. 2, No. 3, pp. 189-204.
2. Iversen, T. and H. Lurås (2000) Economic motives and professional norms: the case of general medical practice, *Journal of Economic Behavior & Organization* Vol. 43 pages 447–470.

The Pharmaceutical Industry

Core Readings

1. Culyer, A.J. and J.P. Newhouse (2000). *Handbook of Health Economics*, North – Holland, Chapter 25.
2. Culyer, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Pacific Research Institute (2014) The Economics of Pharmaceutical Pricing, retrievable from: <https://www.pacificresearch.org/fileadmin/documents/Studies/PDFs/2013-2015/PhamaPricingF.pdf>.



2. Acemoglu, D. And . Linn (2004) Market Size In Innovation: Theory And Evidence From The Pharmaceutical Industry, *The Quarterly Journal of Economics*, 1049-1090.
3. Reinhardt, U.W. (2001) Perspectives on the pharmaceutical industry, *Health Affairs* 20(5): 136-149.
4. Danzon, P.M (1999) The Pharmaceutical Industry, retrievable from: <http://encyclo.findlaw.com/5880book.pdf>.
5. Comanor, W.S (1986) The Political Economy of the Pharmaceutical Industry, *Journal of Economic Literature*, Vol. 24, No. 3, pp. 1178-1217.

4. INSURANCE MARKETS, MANAGED CARE AND CONTRACTING

4.1 The Anatomy of Health Insurance

Core Readings

1. Culyer, A.J and J.P. Newhouse (2000), Handbook of Health Economics, North-Holland, Chapter 11.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Dor, A., and Umaphathi, E. (2014) “Health Insurance and Health” Encyclopedia of Health Economics, 2014, Pages 357-364.
2. Yilma Z, van Kempen L and T. de Hoop (2012) A perverse 'net' effect? Health insurance and ex-ante moral hazard in Ghana, *Social Science and Medicine*, 75(1):138-47. doi: 10.1016/j.socscimed.2012.02.035. Epub 2012 Mar 28.
3. Dave, D., and Kaestner, R. (2009) Health Insurance and ex-ante moral hazard, evidence from Medicare. *Int. J. Health Care Finance and Economics*, 9:362-390

4.2 Insurance Reimbursement

Core Readings

1. Culyer, A.J and J.P. Newhouse (2000), Handbook of Health Economics, North-Holland, Chapter 10.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Sekimoto, M., and Li, M. (2015) “Supplier-Induced Demand for Chronic Disease Care in Japan: Multilevel Analysis of the Association between Physician Density and Physician-Patient Encounter Frequency” *Value in Health Regional Issues*, Volume 6, May 2015, Pages 103-110.
2. Johnson, E.M. (2014) “Physician-Induced Demand” Encyclopedia of Health Economics, 2014, Pages 77-82.
3. Ellis R.P., and Miller M.M. (2008) Provider Payment Methods and Provider Incentives, *The International Encyclopedia of Public Health*, 5:395-402.

4.3 Optimal Design of Health Insurance Contracts

Core Reading

1. Zweifel, P., F. Breyer and M. Kifman (2009) *Health Economics*, Oxford University Press.



Supplementary Readings

1. Ellis, R.P. Chen, T., Luscombe C.E. (2014) Health Insurance Systems in Developed Countries, Comparisons of Encyclopedia of Health Economics, 2014, Pages 396-406
2. Stabile, M., and Townsend, M. (2014) “Supplementary Private Health Insurance in National Health Insurance Systems” Encyclopedia of Health Economics, 2014, Pages 362-365.
3. Arrow, K.J (1963) Uncertainty and the welfare economics of medical care, *American Economic Review* 53:941-973.

4.4 Health Insurance and the Labour Market

Core Readings

- 1 Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 12.
2. Cuyler, A.J. (2014) Encyclopedia of Health Economics: 3 Volume Edition Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Readings

1. Makhloufi, K., Ventelou, B., Abu-Zaineh, M. (2014) “Have health insurance reforms in Tunisia attained their intended objectives?” *International Journal of Health Economics and Management*.
2. Buchmueller, T.C. and Valletta, R.G. (1999) The Effect of Health Insurance on Married Female Labor Supply, *The Journal of Human Resources*, Vol. 34, No. 1, pp. 42-70.

Social insurance

1. Breyer, F. (2014) Social Health Insurance – Theory and Evidence Encyclopedia of Health Economics, Pages 324-328.
2. Mladovsky, P., and Mossialos, E. (2008) A Conceptual Framework for Community-Based Health Insurance in Low-Income Countries: Social Capital and Economic Development, *World Development*, Volume 36, Issue 4, April 2008, Pages 590-607
3. Smith, K.V., and Sulzbach, S. (2008) Community-based health insurance and access to maternal health services: Evidence from three West African countries, *Social Science & Medicine*, Volume 66, Issue 12, June 2008, Pages 2460-2473
4. Obermann, K., Jowett, M. R., et. Al. (2006) Social health insurance in a developing country: The case of the Philippines, *Social Science & Medicine*, Volume 62, Issue 12, June 2006, Pages 3177-3185.

4.5 Managed Care

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). Handbook of Health Economics, North – Holland, Chapter 13.
2. Christianson, J.B. (2014) Managed Care Encyclopedia of Health Economics, 2014, Pages 187-194

Supplementary Readings

1. Chernew, M., P. DeCicca and R. Town (2008) Managed care and medical expenditures of Medicare beneficiaries, *Journal of Health Economics*, 27: 1451-1461.



2. O'Brien, W. H. (2000) The economics of managed care in behavioral health: basic concepts and incentives, *Psychiatric Clinics of North America*, Volume 23, Issue 2, 1 June 2000, Pages 255–267.



SEMESTER II: HEALTH ECONOMICS II (ECON 632)

5. Health and Development Challenges in Africa

5.1 Economics of Disease

Principles of epidemiology

1. Handbook of Health Economics. Chapter on Economic Epidemiology

Disease Burden Measurement and Policy Implications

Core Readings

1. Murray C.J.L. and A.D. Lopez et al. (2013) *The Global Burden of Disease*, World Health Organisation.
2. WHO et al (1999) *Using Burden of Disease and Cost-Effectiveness to Define National Central Priorities and Essential Package of Care*, Volume I and II.

Supplementary Readings

1. Institute for Health Metrics and Evaluation, Human Development Network, The World Bank (2013) *The Global Burden of Disease: Generating Evidence, Guiding Policy – Sub-Saharan Africa Regional Edition*. Seattle, WA: IHME.
2. Murray CJL, Lopez AD, Vos T, et al. (2013) Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990–2013: quantifying the epidemiological transition. *The Lancet*. 2015. Volume 386 (10009): p 2145–2191, doi: 10.1016/S0140-6736(15) 61340-X
3. Ng M, , Lopez AD, Murray CJL, Gakidou E, et al. (2013) Global, regional, and national prevalence of overweight and obesity in children and adults during 1980–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 2014, Volume 384 (9945):766–781. doi: 10.1016/S0140-6736(14)60460-8.

5.2 Poverty and Health

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8 AFRICAN HEALTH SYSTEMS IN THE GLOBAL CONTEXT

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- Health Sector Reforms: Global Context
- African Initiatives in Health Sector Reform
- Current Trends in Health Sector Reform

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