

**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)



Facebook



Twitter



Website



Email



Website

Copyright © 2016 African Economic Research Consortium (AERC), All Rights Reserved.

Our mailing address is:

African Economic Research Consortium (AERC)
3rd Floor-Middle East Bank Towers Building, Jakaya Kikwete Road
P. O. Box 62882
00200 Nairobi



Kenya

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., Nsawah-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. Cuyler, 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. Culyer, 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 Natural 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

Required Readings

1. Behrman, J. and A. Deolalikar (1988) Health and nutrition, in H. Chenery and TN Srinivasan (eds.), *Handbook of Development Economics, Volume 1*.
2. Schultz, T.W. (1980). The Economics of Being Poor, *Journal of Political Economy*, 88.4:639-51.

Supplementary Readings

1. Nwosu C. O. and I.Woolard (2015) Impact on Health on Labour Force Participation in South Africa ERSA working paper 548, Available from: http://www.econrsa.org/system/files/publications/working_papers/working_paper_548.pdf
2. County of Los Angeles Public Health (2015) Social Determinants of Health: Housing and Health in Los Angeles County, Available from: http://publichealth.lacounty.gov/ha/reports/LAHealthBrief2011/HousingHealth/SD_Housing_Fs.pdf
3. Maqbool, N, J. Viveiros, and M. Ault (2015) The Impacts of Affordable Housing on Health: A Research Summary, Center for Housing policy, Available from: http://www2.nhc.org/HSGandHealthLitRev_2015_final.pdf



4. Ware V. (2013) Housing strategies that improve Indigenous health outcomes, *Resource sheet no. 25* produced for the Closing the Gap Clearinghouse, Available from:
http://www.aihw.gov.au/uploadedFiles/ClosingTheGap/Content/Publications/2013/ct_gc-rs25.pdf
5. García-Guerrero, J (2012) Overcrowding in prisons and its impact on health, *Rev Esp Sanid Penit* 14: 106-113, Available from:
<http://sanipe.es/OJS/index.php/RESP/article/viewFile/317/736>
6. Knotsch, C., M. Akalehiyot and M. Okalik-Syed (2010) "Housing as a Determinant of Health: 2010 Annotated Bibliography", *Inuit Tuttarvingat*, ISBN: 978-1-926543-43-7 Available from:
http://www.naho.ca/documents/it/2011_Housing-Determinant-Health-Annotated-Bibliography.pdf
7. Haan P. and M. Myck (2009) Dynamics of Poor Health and Non-Employment, IZA Discussion Paper Series No. 4154, Available from:
<http://ftp.iza.org/dp4154.pdf>
8. Smith J. P. (2009) The Impact of Childhood Health on Adult Labor Market Outcomes, *Review of Economics and Statistics*, 91(3): 478-489. (doi: 10.1162/rest.91.3.478).
9. Griggs J and R. Walker (2008) The Cost of Child Poverty for individuals and society: A literature review, Joseph Rowntree Foundation, Available from:
<https://www.jrf.org.uk/sites/default/files/jrf/migrated/files/2301-child-poverty-costs.pdf>
10. Jensen, Robert T. and Kaspar Richter (2001) Understanding the relationship between poverty and children's health." *European Economic Review* 45(4-6): 1031-1039.
11. Fuchs, Victor R. (1992) Poverty and health: Asking the right questions, *American Economist* 36(2): 12-18.
12. Contoyannis, Paul and Robin Sickles (1999) The distribution of health and income: A theoretical framework, *Journal of Health Economics* 18(5): 605-622.

5.3 Health and Growth

1. Weil D. N. (2013) Health and Economic Growth, Prepared for the Handbook of Economic Growth, Volume 2. I am grateful to Daniel Prinz, Sanjay Singh, Lindor Qunaj, Alex Available from:
http://www.econ.brown.edu/Faculty/David_Weil/Health_and_Economic_Growth_Handbook_Article.pdf
2. Kurt S. (2015) Government Health Expenditures and Economic Growth: A Feder-Ram Approach for the Case of Turkey, *International Journal of Economics and Financial issues* 5(2): 441-447
3. David E. Bloom David Canning (2008) *Population Health and Economic Growth* Commission on Growth and Development, Working Paper No 24. Available from
http://siteresources.worldbank.org/EXTPREMNET/Resources/489960-1338997241035/Growth_Commission_Working_Paper_24_Population_Health_Economic_Growth.pdf
4. Zahra Mila Elmi Z.M. and Sadeghi S. (2012) Health Care Expenditures and Economic Growth in Developing Countries: Panel Co-Integration and Causality *Middle-East Journal of Scientific Research* 12 (1): 88-91 DOI: 10.5829/idosi.mejsr.2012.12.1.64196, Available from
[http://www.idosi.org/mejsr/mejsr12\(1\)12/15.pdf](http://www.idosi.org/mejsr/mejsr12(1)12/15.pdf)
5. Anthony Strittmatter Uwe Sunde A.S.U (2011) Health and Economic Development: Evidence from the Introduction of Public Health Care, IZA Discussion Paper Series No. 5901. Available from: <http://ftp.iza.org/dp5901.pdf>



From Health to Growth-Micro

1. Tarozzi A, Mahajan A, Blackburn B, Kopf D, Krishnan L, Yoong J. (2014) Micro-loans, Insecticide-Treated Bednets and Malaria: Evidence from a Randomized Controlled Trial in Orissa (India). *Am. Econ. Rev.* 2014;104; 1909-1941.
2. Bleakley, H. and F. Lange (2009) *Chronic Disease Burden and the Interaction of Education, Fertility and Growth*. *Rev. Econ. Stat.* 2009;91.
3. Loureiro ML (2009) Farmers' health and agricultural productivity. *Agricultural Economics* 2009;40; 381-388.
4. Ulimwengu J. (2009) Farmers' health and agricultural productivity in rural Ethiopia. *African Journal of Agricultural and Resource Economics* 2009;3; 83-100.
5. Clarke SE, Jukes MCH, Njagi JK, Khasakhala L, Cundill B, Otido J, Crudde C, Estambale BBA, Brooke S. (2008) *Effect of Intermittent Preventive Treatment of Malaria on Health and Education in Schoolchildren: a Cluster-randomised, Double-blind, Placebo-controlled Trial*. *Lancet* 2008; 127-138.
6. Morel CM, Thang N, Xa N, Hung LX, Thuan LK, Ky PV, Erhart A, Mills AJ, D'Alessandro U. (2008) The economic burden of malaria on the household in south-central Vietnam. *Malar. J.* 2008;7.
7. Bleakley H. (2007) *Disease and Development: Evidence from Hookworm Eradication in the American South*, *Quarterly Journal of Economics*, 122; 73-117.
8. Fox MP, Rosen S, MacLeod WB, Wasunna M, Bii M, Foglia G, Simon JL. (2004) *The impact of HIV/AIDS on labour productivity in Kenya*. *Trop. Med. Int. Health* 2004;9.

From Health to Growth-Macro

1. Barro R.J. (2013) Health and Economic Growth, *Annals of Economics and Finance*, 14-2(a), 305-342.
2. Acemoglu, D., Johnson, S., (2007) Disease And development: The effect of life expectancy on economic growth. *Journal Of Political Economy* 115 (6), 925-985
3. Hazan, M., Zoabi, H., (2006) Does Longevity cause growth? A theoretical critique. *Journal Of Economic Growth* 11, 363-376.
4. Bloom, D.E., Canning, D., Sevilla, J., (2004) The Effect of health on economic growth: A production function approach. *World Development* 32 (1), 1-13.
5. Rivera, B., Currais, L. (2003) 'The Effect of Health Investment on Growth: A Causality Analysis', *International Advances in Economic Research*, Vol. 9, no. 4, pp. 312-323.
6. Deaton, A. (2003) 'Health, Inequality, and Economic Development', *Journal of Economic Literature*, vol.41, pp.113-158.
7. Bhargava A, Jamison D.T., Lau L.J., Murray C.J.L. (2001) 'Modelling the effects of health on economic growth', *Journal of Health Economics*, Vol.20, pp. 423-440.

From Growth to Health

1. Martin S, Rice N and Smith PC (2008) Further evidence on the link between healthcare spending and health outcomes in England, London: The Health Foundation.

5.4 Health under Shock/Disaster

- Health under conflict
- Health under disease outbreak
- Case studies

Readings

1. Hauck, K. and X. Zhang (2016) Heterogeneity in the Effect of Common Shocks on Healthcare Expenditure Growth, retrieved from: <http://onlinelibrary.wiley.com/doi/10.1002/hec.3329/abstract>



2. Percival V., E. Richards, T. MacLean and S. Theobald (2014) “ Health system and gender in post-conflict contexts: building back better?”, *Conflict and Health* 8(19), Available from: <http://www.conflictandhealth.com/content/8/1/19>
3. Katherine H., A. F. and L.S. Rubenstein (2013) A Human Right Approach to Health Care in Conflict” *International Review of the Red Cross* 95(889): 167-187.
4. Rubenstein L. S. (2012) Protection of Health care in Armed and Civil Conflict: Opportunity for Breakthroughs, a report of the csis global health policy center, Available from: http://csis.org/files/publication/120125_Rubenstein_ProtectionOfHealth_Web.pdf
5. Akresh R. L. Lucchetti and h. Thirumurthy (2011) “Wars and child health: Evidence from the Eritrean-Ethiopia Conflict”, ZA Discussion Paper Series No 5558. Available from: <http://ftp.iza.org/dp5558.pdf>
6. Guha-Sapir D. and O. D’Aoust (2010) Demographic and Health Consequences of Civil Conflict” World Bank World Development Report 2011, Background Paper, Available from: http://web.worldbank.org/archive/website01306/web/pdf/wdr_background_paper_sapir_d'aoust.pdf
7. Devkota B. and E. R. van Teijlingen (2010) Understanding effects of armed conflict on health outcomes: the case of Nepal *Conflict and Health* 4(20): 1-8 Available from: <http://www.conflictandhealth.com/content/4/1/20>
8. Verwimp P. T. Bundervoet and R. Akresh (2010) The impact of Violent Conflict on Child Health’ MICROCON Policy Briefing 6, Available from: http://www.microconflict.eu/publications/PB6_PV_TB_RA.pdf
9. Chassang, S and G. P. Miguel (2008) Conflict and deterrence under strategic risk, NBER Working Paper 13962.
10. Caselli, R. and W. J. Coleman (2006) On the theory of ethnic conflict. NBER Working Paper Series 12125.
11. Muzumdar, S., Muzumdar, G.P., Kanjilal, B., Singh, P., (2014) Multiple Shocks, coping and welfare consequences: Natural disasters and health shocks in Inidan Sandarbans; *Plos One*, 9(8) e105427
12. Ruhm, Christopher, (2000) Are Recessions Good for Your Health? *Quarterly Journal of Economics*, CXV (2000), 617–650.

6 Performance Evaluation of Health Systems

The Measurement of Health – Related Quality of Life

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). *Handbook of Health Economics*, North – Holland, Chapter 32.
2. Cuyler, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787

Supplementary Reading

[XXXXXXXXXXXXXXXXXXXXX](#)

Advances in Cost-Effectiveness Analysis

Core Reading

1. Culyer. A.J. and J.P. Newhouse (2000). *Handbook of Health Economics*, North – Holland, Chapter 4.
2. Drummond M.F, Sculpher, M.J., Torrance, G.W, O'Brien B.J. and Stoddart, G.L. (2015). *Methods for the Economic Evaluation of Health Care Programmes*. Fourth Edition, Oxford University Press, ISBN: 9780199665884



Supplementary Readings

1. Point-of-Care CD4 Testing to Inform Selection of Antiretroviral Medications in South African Antenatal Clinics: A Cost-Effectiveness Analysis; Andrea L. Ciaranello, Landon Myer, Kathleen Kelly, Sarah Christensen, Kristen Daskilewicz, Katie Doherty, Linda-Gail Bekker, Taige Hou, Robin Wood, Jordan A. Francke, Kara Wools-Kaloustian, Kenneth A. Freedberg, Rochelle P. Walensky; *PLoS One*. 2015; 10(3): e0117751. Published online 2015 March 10. doi: 10.1371/journal.pone.0117751
2. Global Systematic Review of the Cost-Effectiveness of Indigenous Health Interventions; Blake J. Angell, Janani Muhunthan, Michelle Irving, Sandra Eades, Stephen Jan; *PLoS One*. 2014; 9(11): e111249. Published online 2014 November 5. doi: 10.1371/journal.pone.0111249
3. Public health economics: a systematic review of guidance for the economic evaluation of public health interventions and discussion of key methodological issues, Rhiannon Tudor Edwards, Joanna Mary Charles, Huw Lloyd-Williams; *BMC Public Health*. 2013; 13: 1001. Published online 2013 October 24. doi: 10.1186/1471-2458-13-1001
4. A Multifaceted Intervention to Improve the Quality of Care of Children in District Hospitals in Kenya: A Cost-Effectiveness Analysis; Edwine W. Barasa, Philip Ayieko, Susan Cleary, Mike English; *PLoS Med*. 2012 June; 9(6): e1001238. Published online 2012 June 12. doi: 10.1371/journal.pmed.1001238
5. Gold, M.R., J.E. Siegel, L.B. Russell and M.C. Weinstein (1996). *Cost – Effectiveness in Health and Medicine*, Oxford University Press, New York.

Healthcare Provider Efficiency Analysis

Core Reading

Charnes et al (2000). *Data Envelopment Analysis, Theory, Methodology and Applications*.

Supplementary Readings

1. Hollingsworth, B. (2014) Evaluating efficiency of a health care system in developing world in Culyer, T. (ed.) *Encyclopedia of health economics*. Elsevier
2. Jehu-Appiah, C., Serufusa Sekidde, Martin Adjuik, James Akazili, Selassi D Almeida, Frank Nyonator, Rob Baltussen, Eyob Zere Asbu, Joses Muthuri Kirigia (2014) Ownership and technical efficiency of hospitals: evidence from Ghana using data envelopment analysis: *Cost Eff Resour Alloc*. 2014; 12: 9. Published online 2014 April 8. doi: 10.1186/1478-7547-12-9
3. Kirigia, JM, Eyob Z Asbu (2013) Technical and scale efficiency of public community hospitals in Eritrea: an exploratory study, *Health Econ Rev*. 3: 6. Published online 2013 March 16. doi: 10.1186/2191-1991-3-6.
4. Hollingsworth, B. (2012). Revolution, evolution, or status quo? Guidelines for efficiency measurement in health care. *Journal of Productivity Analysis* 37(1), 1–5
5. Kirigia, JM., Luis G Sambo, Ade Renner, Wondi Alemu, Santigie Seasa, Yankuba Bah (2011) Technical efficiency of primary health units in Kailahun and Kenema districts of Sierra Leone *Int Arch Med*. 2011; 4: 15. Published online 2011 May 11. doi: 10.1186/1755-7682-4-15.
6. Jacob R, Smith PC, Street A. (2006) *Measuring Efficiency in Health Care: Analytic Techniques and Health Policy*. Cambridge: Cambridge University Press, 2006,
7. Osei, D., Selassi d'Almeida, Melvill O George, Joses M Kirigia, Ayayi Omar Mensah, Lenity H Kainyu (2005) Technical efficiency of public district hospitals and health centres in Ghana: a pilot study *Cost Eff Resour Alloc*. 2005; 3: 9. Published online 2005 September 27. doi: 10.1186/1478-7547-3-9



8. Renner, A., Joses MKirigia, Eyob A Zere, Saidou P Barry, Doris G Kirigia, Clifford Kamara, Lenity HK Muthuri (2005) Technical efficiency of peripheral health units in Pujehun district of Sierra Leone: a DEA application:: *BMC Health Serv Res.* 2005; 5: 77. Published online 2005 December 14. doi: 10.1186/1472-6963-5-77.
9. Farrell, M.J. (1957) The Measurement of Productive Efficiency. *Journal of the Royal Statistical Society*, 120, 253-290.

Equity and Efficiency in Health and Healthcare

Core Readings

1. Culyer. A.J. and J.P. Newhouse (2000). *Handbook of Health Economics*, North – Holland, Chapters 34 and 35.
2. Cuyler, A.J. (2014) *Encyclopedia of Health Economics: 3 Volume Edition* Elsevier First edition ISBN-10: 0123756782 and ISBN-13: 978-0123756787.

Van ???

Supplementary Reading

XXXXXXXXXXXXXXXXXXXX

7. HEALTH PLANNING AND PROGRAMMING

Health Expenditure and Health Accounts

1. Australian Government (2015) Health Expenditure Australia 2013-14, *Health and Welfare Expenditure Series No. 54*, Available from: <http://www.aihw.gov.au/WorkArea/DownloadAsset.aspx?id=60129552833>
2. Deshpande n. A. kumar and R. ramasami (2015) “The effect of national healthcare expenditure on life expectancy” Available from: <https://smartech.gatech.edu/bitstream/handle/1853/51648/The+Effect+of+National+Healthcare+Expenditure+on+Life+Expectancy.pdf;jsessionid=59CA13A8D21EB76F30EA57B23F4FE70E.smart2?sequence=1>
3. Barenberg A., D basu and C. Soyly (2015) “The effect of public health expenditure on infant mortality: evidence from a panel o indian states, 198-84 ro 2011-12”, I Political economy research institute working paper series No 410. Available from: http://www.peri.umass.edu/fileadmin/pdf/working_papers/working_papers_401-450/WP410.pdf
4. CIHI (2014), “National Health Expenditure Trends, 1975-2014”, Spending and Health Workforce, Available from: https://www.cihi.ca/en/nhex_2014_report_en.pdf
5. Fonseca R., P. Michaud, A. Kapteyn, and T. Galama (2013) “Accounting for the rise of health spending and longevity, IZA Discussion Paper Series No. 7622, Available from: <http://ftp.iza.org/dp7622.pdf>
6. Baltagi, B. H., Moscone, F. (2010) Health care expenditure and income in the OECD reconsidered: Evidence from panel data. *Economic Modelling*, 27(4), 804-811.
7. Zere E., O. Walker, J. Kirigia, F. zawaira, F. magombo and E. Kataika (2010) “health financing in Malawi: Evidence from National Health Accounts”, *BMC international Health and Human Rights* 10(27), Available from: <http://bmcinthealthhumrights.biomedcentral.com/articles/10.1186/1472-698X-10-27>
8. Murthy, V. N., & Okunade, A. A. (2009) The core determinants of health expenditure in the African context: Some econometric evidence for policy. *Health policy*, 91(1), 57-62.
9. Hartwig, J. (2008) What drives health care expenditure? Baumols model of unbalanced growth revisited. *Journal of Health Economics* 27: 603-623.



10. Hartwig, J. 2008. What drives health care expenditure? Baumols model of unbalanced growth revisited. *Journal of Health Economics* 27, 603623.
11. Hall, R. E., and Jones, C. I. (2007), The Value of Life and the Rise in Health Spending, *Quarterly Journal of Economics*, 122(1), 3972
12. Newhouse J.P. (1977) Medical care expenditure: a cross-national survey,” *Journal of Human Resources* 12: 115 – 125.

Public-Private Partnerships

1. Torchia M. A. Calabro and M. morner (2015) “Public-Private partnerships in the health care sector: A system review of the literature”, *Public Management review* 17(2): 236-261. Available from: <http://www.tandfonline.com/doi/abs/10.1080/14719037.2013.792380>
2. Chakraborty D. (2013) “The private sector’s role in achieving Universal Health Coverage in India EMHN Briefing No.3, Available from: http://www.emhn.org/sites/default/files/Chakraborty_PPPs_EMHN.pdf
3. Sturchio J.L. and A. Goel (2012) “The Private sector role in public health: a reflection on the new global architecture in health” A report of the CSIS project on US Leadership in development. Available from: http://csis.org/files/publication/120131_Sturchio_PrivateSectorRole_Web.pdf
4. Barnes j. (2012) “Designing Public-Private partnerships in Health”, USAID, Available from: <http://www.abtassociates.com/abtassociates/files/49/49a01920-2254-433a-879d-76843f2ecd28.pdf>
5. Espigares J.J.N. E.H. Torres (2009) “Public private partnership as a new way to deliver healthcare services” Available from: <https://dialnet.unirioja.es/descarga/articulo/2942101.pdf>
6. Efficiency Unit (2008) “Serving the community by using the private sector: An introduction guide to public private partnership (PPPs)”, second edition, Available from: http://www.eu.gov.hk/en/reference/publications/ppp_guide_2008.pdf
7. Pessoa A. (2008) “Public private sector partnership in developing countries: Are infrastructure responding to the new ODA strategy? FEP Working paper No 266, available from: http://www.fep.up.pt/investigacao/workingpapers/08.02.11_wp266.pdf
8. Akitoby B., R. Hemming, and G. Schwartz (2007) “Public investment and public-private partnerships”, *Economic Issues* 40 IMF.

Strategic and Scenario Health Planning

1. Vollmar H.C., T. Ostermann and M. Redaelli (2015) Using the scenario method in the context of health and health care – a scoping review”, *BMC Medical Research Methodology* 15: 89, Available from: http://download.springer.com/static/pdf/632/art%253A10.1186%252Fs12874-015-0083-1.pdf?originUrl=http%3A%2F%2Fbmcmedresmethodol.biomedcentral.com%2Farticle%2F10.1186%2Fs12874-015-0083-1&token2=exp=1461880818~acl=%2Fstatic%2Fpdf%2F632%2Fart%25253A10.1186%25252Fs12874-015-0083-1.pdf*~hmac=373b7fd9bf944093211bad88a23adbb02810d493df64ef5aa06f20c9732c6250
2. MHSW (2015) “Health sector strategic plan” June 2015 – June 2020” United republic of Tanzania, Ministry of Health and Social Welfare, Available from: http://www.tzdp.gov.tz/fileadmin/documents/dpg_internal/dpg_working_groups_clusters/clu_r_2/health/Key_Sector_Documents/Induction_Pack/Final_HSSP_IV_Vs1.0_260815.pdf
3. Institute for alternative future (2014) “Public Health 2030: A Scenario Exploration”, Available from: <http://www.altfutures.org/pubs/PH2030/IAF-PublicHealth2030Scenarios.pdf>



Operations Research (Goal Programming)

1. Dlomri A. S. Elthlatiny and Z. S. Mohamed (2015) A Goal Programming Model for Fairly Scheduling Medicine Residents, *Int. J. Sup Chain Mgt*, 4(2). Available from: <http://ojs.excelingtech.co.uk/index.php/IJSCM/article/viewFile/1066/pdf>
2. Ataollahi F. M.A. bahrami, M, Abesi and F. Mobasheri (2013) A Goal Programming Model for Reallocation of Hospitals' Inpatient Beds, *Middle-East Journal of Scientific Research* 18 (11) Available from: [http://www.idosi.org/mejsr/mejsr18\(11\)13/3.pdf](http://www.idosi.org/mejsr/mejsr18(11)13/3.pdf)
3. Wang Q., M. li, H. Zu, M. Gao, C Cao and L. C. Xia (2013) A Quantitative Evaluation of health care system in US, China and Sweden, *HealthMED* 7(4). Available from: <http://arxiv.org/pdf/1304.5563.pdf>
4. Thokala P. (2011) Multiple Criteria Decision Analysis For Health Technology Assessment: Report by the Decision Support Unit, School of Health and Related Research, University of Sheffield, UK Available from: <http://www.nicedsu.org.uk/MCDA%20for%20HTA%20DSU.pdf>
5. Rais A. and A. Viana (2010) Operations Research in Healthcare: A Survey, *International Transaction I operational resech*, January: Available from: <https://www.ispor.org/TaskForces/Operations-Research-in-Healthcare.pdf>

Stakeholders Analysis in the Health Sector

1. Makan A., A, Fekadu, et al (2015) Stakeholder analysis od the programme for improving mental health care (PRIME): baseline findings” *Int J. Ment health Syst* 9(27), Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4493963/>
2. Namazzi G., S. N.Kiwanuka, et al. (2013) Stakeholder analysis for a maternal and newborn health project in Eastern Uganda” *BMC Pregnancy and childbirth*, 13(58), Available from: <http://opendocs.ids.ac.uk/opendocs/bitstream/handle/123456789/4124/Stakeholder%20Analysis%20for%20a%20maternal%20and%20newborn%20health%20project%20in%20Eastern%20Uganda%20Open%20Access.pdf?sequence=3>

Advocacy and Consensus Building Tools

1. Modell S.M., K. Greendale, T. Citrin and S.L.R. Kardia (2016) Expert and Advocacy Group Consensus Findings on the Horizon of Public Health Genetic Testing, Conference Report. *Healthcare* 4(14)
2. NCD Alliance (2015) Advocacy Toolkit: NCDs in the Post-2015 Development Agenda, Available from: https://ncdalliance.org/sites/default/files/rfiles/NCDA_AdvocacyToolkit_EN_0.pdf
3. Scaling up Nutrition (2014) Social Mobilization, Advocacy and Communication for Nutrition” Available from: http://scalingupnutrition.org/wp-content/uploads/2014/09/Green_External_InPractice_no03_ENG_20140904_web_pages.pdf
4. India Health Service (2011) INDIAN HEALTH DIABETES BEST PRACTICE: Community Advocacy for Diabetes Prevention and Control, Available from: https://www.ihs.gov/MedicalPrograms/Diabetes/HomeDocs/Tools/BestPractices/2011_BP_CommAdvocacy_508c.pdf
5. Health Consumer Queensland (2011) Health Advocacy Framework: Strengthening Health Advocacy in Queensland, Available from: https://www.health.qld.gov.au/hcq/publications/hcq_framework_may11.pdf
6. Action (2007) Best Practices for Advocacy: A Dozen Tactics, Tool and Strategies, Available from: http://www.action.org/documents/ACTION_Best_Practices_Guide_small.pdf



8 AFRICAN HEALTH SYSTEMS IN THE GLOBAL CONTEXT

8.1 International Comparison of Health Expenditures and health Outcomes

Core Reading

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

Supplementary Readings

1. Aunky, V. C., Khadaroo, A.J. 2008. Health care expenditure and GDP: an African perspective. Applied Econometrics and International Development 8(1), 131-146.

8.1 Comparative Health Systems

1. The Health Foundation and the Nuffield Trust (2015) Focus on: International comparisons of healthcare quality, retrievable from: http://www.qualitywatch.org.uk/sites/files/qualitywatch/field/field_document/QualityWatch_International_comparisons_full_report.pdf.
2. Rad, E. H., S. Vahedi, A. Teimourizad, F. Esmailzadeh, M. Hadian and A. T. Pour (2013) Comparison of the Effects of Public and Private Health Expenditures on the Health Status: a Panel Data Analysis in Eastern Mediterranean Countries, International Journal of Health Policy and Management, Volume 1, Issue 2, August 2013, Page 163-167.
3. World Health Organization (2000) International comparison of health care systems using resource profiles, Bulletin of the World Health Organization, 2000, 78 (6): 770-778, retrievable from: [http://www.who.int/bulletin/archives/78\(6\)770.pdf](http://www.who.int/bulletin/archives/78(6)770.pdf).
4. Nixon, J. (2000) Convergence of Health Care Spending and Health Outcomes in the European Union, 1960-95, University of York, Centre for Health Economics Discussion Paper Number 183.
5. Keast, R.L., Mandell, M & Brown, K.A. (2006) Mixing state, market and network governance modes: the role of government in "crowded" policy domains, International Journal of Organization Theory and Behavior, vol. 9, no. 1, pp. 27-50.

8.2 Globalization and Health

1. Chapter 3: Public health at the local, state, national, and global levels, retrievable from: <http://www.ashp.org/DocLibrary/Bookstore/P1725/P1725SampleChapter.aspx>.
2. Aluttis, C., Bishaw, T., & Frank, M. W. (2014). The workforce for health in a globalized context – global shortages and international migration. Global Health Action, 7, 10.3402/gha.v7.23611. <http://doi.org/10.3402/gha.v7.23611>.
3. Overseas Development Institute (2014) Global mental health from a policy perspective: a context analysis Characterizing mental health and recommending engagement strategies for the Mental Health Innovation Network, Retrievable from: <https://www.odi.org/sites/odi.org.uk/files/odi-assets/publications-opinion-files/9285.pdf>.
4. World Health Organization, World Intellectual Property Organization and World Trade Organization (2012) Promoting Access to Medical Technologies and Innovation: Intersections between public health, intellectual property and trade, retrievable from: https://www.wto.org/english/res_e/booksp_e/pantihowipowtoweb13_e.pdf.
5. Organization for Economic Co-operation and Development (2010) International Migration of Health Workers: improving international co-operation to address the global health workforce crisis.
6. Gushulak, B. D., J. Weekers and D. W. MacPherson (2010) Migrants and emerging public health issues in a globalized world: threats, risks and challenges, an evidence-based



- framework, *Emerging Health Threats Journal* 2010, 2:e10. doi: 10.3134/ehtj.09.010, retrievable from: <http://journals.co-action.net/index.php/ehtj/article/viewFile/7091/7980>.
7. McMichael, A.J. and C. D. Butler (2007) Emerging health issues: the widening challenge for population health promotion, *Health Promotion International*, Vol. 21 No. S1:15-24.
 8. Nuffield Trust (2000) Global Health: a Local Issue, retrievable from: <http://www.nuffieldtrust.org.uk/sites/files/nuffield/publication/global-health-a-local-issue-nov2000.pdf>

8.3 Health Sector Reforms

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

Readings

1. Sara Bennett, Peters D. (2015) Assessing National Health Systems: Why and How, *Health Systems & Reform* 2015, Volume 1 (1): 9-17
2. R. Paul Shaw, Hong Wang, Daniel Kress & Dana Hovig, (2014) Donor and Domestic Financing of Primary Health Care in Low Income Countries, *Health Systems & Reform*, 2015, 1(1) 72-88, DOI: 10.1080/23288604.2014.996413
3. Peters DH, Paina L, Schleimann F. (2013) Sector-wide approaches (SWAps) in health: what have we learned? *Health Policy Plan* 2013; 28(8): 884–90
4. Kruk ME, Freedman LP. (2008) Assessing health system performance in developing countries: a review of the literature. *Health Policy* 2008; 85(3): 263–76.
5. M.J. Roberts, W. Hsiao, P. Berman, and M.R. Reich, (2004) *Getting Health Reform Right: A Guide to Improving Performance and Equity*, Oxford, 2004

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

Evidence-based Health Policy

1. Hawkes, S., Bhupinder K Aulakh, Nidhee Jadeja, Michelle Jimenez, Kent Buse, Iqbal Anwar, Sandhya Barge, M Oladoyin Odubanjo, Abhay Shukla, Abdul Ghaffar, Jimmy Whitworth (2016) Strengthening capacity to apply health research **evidence** in **policy making**: experience from four countries;; *Health Policy Plan*. 2016 March; 31(2): 161–170. Published online 2015 April 21. doi: 10.1093/heapol/czv032
2. Uneke, C. J., Abel Ebeh Ezeoha, Henry Uro-Chukwu, Chinonyelum Thecla Ezeonu, Ogbonnaya Ogbu, Friday Onwe, Chima Edoga (2015) Enhancing the Capacity of **Policy-Makers** to Develop **Evidence-Informed Policy** Brief on Infectious Diseases of Poverty in Nigeria; *Int J Health Policy Manag.* 2015 September; 4(9): 599–610. Published online 2015 May 20. doi: 10.15171/ijhpm.2015.100
3. Yamey G. and R. Feachem (2011) Evidence-based policymaking in global health - the payoffs and pitfalls. *Evidence Based Medicine*, 2011; doi: 10.1136/ebm.2011.100060.
4. Hanney, S.R., Miguel A Gonzalez-Block, Martin J Buxton, Maurice Kogan (2003) The utilisation of health research in **policy-making**: concepts, examples and methods of assessment *Health Res Policy Syst.* 2003; 1: 2. Published online 2003 January 13. doi: 10.1186/1478-4505-1-2
5. Brownson R.C, Chiqui J.F. and Stamatakis K.A. (2009) Understanding Evidence-Based Public Health Policy, *Am J Public Health.* 2009, 99(9): 1576–1583. doi: 10.2105/AJPH.2008.156224
6. McMichael C, Waters E, Volmink J. (2005) Evidence-based public health: what does it offer developing countries? *Journal of Public Health* 2005, 27: 215–21.



Global Best Practices

1. Sheikh, K., A. George and Lucy Gilson (2014) People-centred science: strengthening the practice of health policy and systems research, *Health Research Policy and Systems* 2014, 12:19, retrievable from: http://download.springer.com/static/pdf/702/art%253A10.1186%252F1478-4505-12-19.pdf?originUrl=http%3A%2F%2Fhealth-policy-systems.biomedcentral.com%2Farticle%2F10.1186%2F1478-4505-12-19&token2=exp=1461935094~acl=%2Fstatic%2Fpdf%2F702%2Fart%25253A10.1186%252F1478-4505-12-19.pdf*~hmac=4eee237f3701fafa4fa8cef1dd80343d2e9d1a1485d20449295ff95c81dbef94
2. Viergever, RF , Sylvie Olifson , Abdul Ghaffar , Robert F Ter (2010) A checklist for health research priority setting: nine common themes of good practice, *Health Research Policy and Systems* 2010, 8:36, retrievable from: http://download.springer.com/static/pdf/394/art%253A10.1186%252F1478-4505-8-36.pdf?originUrl=http%3A%2F%2Fhealth-policy-systems.biomedcentral.com%2Farticle%2F10.1186%2F1478-4505-8-36&token2=exp=1461935289~acl=%2Fstatic%2Fpdf%2F394%2Fart%25253A10.1186%252F1478-4505-8-36.pdf*~hmac=4b48e4cc41490bcc2a9a2eca120214a786d8f551014c9b5f6d83b5ca968e45e1
3. Walt, G., Jeremy Shiffman, Helen Schneider, Susan F Murray, Ruairi Brugha and Lucy Gilson (2008) 'Doing' health policy analysis: methodological and conceptual reflections and challenges, *Health Policy and Planning*, 23 (5):308-317.