

Syllabus Module 221

Module # 221	Social and behavioral sciences : Major Ageing, Chronic diseases & LT care
UE coordinator	Dr Martine Bellanger, Professor of Economics, EHESP Martine.Bellanger@ehesp.fr
Dates	From January 16 th to 20 th 2017
Credits/ECTS	3 (1 ECTS = 25h student's work)
Duration	Number of days: 5
Module description	This module is based on evidence that chronic diseases have become a major public health concern not only in high income countries, but also in low and middle ones. In the developed countries, chronic diseases are frequently seen in association with aging. Although we recognize that efforts have been made to tackle this problem in terms of medical and social care, improvement is still needed in terms of life-long prevention. This course focuses on social, organizational and behavioral approaches and methods in order to provide a good understanding of the public health issues involved. Intersectorial actions and policies implemented by national and sub-national policy makers and planners are analyzed and reviewed. A comprehensive and integrated approach in terms of the 'long term care model/chronic care models' forms the thread running through the course. Particular attention is given to interactions between various health and social professionals, between hospitals and nursing homes, as well as to interactions between informal resources and formal resources. Valuing informal resources through different economic methods will also be specific dimension of approaching long term care issues. Finally, a particular focus on worldwide breast cancer primary prevention will be given during the module, as a way to tackle with some chronic care conditions. Students will have the opportunity to study and assess a wide range of international policies and reforms and their impacts at different levels (e.g OECD & EU countries, and global level)
Prerequisites	Basic knowledge in economics and health & social policy
Course learning objectives	<p>Learning objectives: <i>at the end of the module, the students should be able to:</i></p> <ul style="list-style-type: none"> • Identify organizational and behavioural approaches involved in primary public health prevention, especially for breast cancer • Discuss the role of different stakeholders in the planning and implementation of policies and programs tackling chronic and long term care issues • Use advanced qualitative and quantitative methods to evaluate interventions related to people with chronic conditions such as Alzheimer disease and cancer • Identify and critique various data sources for Global Burden of Disease (GBD) using Disability Adjusted life year (DALY) or Potential years of life lost (PYLL) • Use 'long term care models' & 'chronic care models' to provide interventions based on cooperation between professionals, services and informal caregivers. • Conduct research that integrates models and appropriate methods for conducting practice in LT care and chronic settings • Contribute to effective public health programs in the domain of aging, LT and chronic diseases
UE Structure details of sessions title/spaeker/date/duration	<p>Specific learning objectives are noted for each session. At the end of each session, students should know and be able to accomplish the session's learning objectives.</p> <ul style="list-style-type: none"> • Session 1. Common challenges for aging, LT care & chronic diseases & Global burden of disease, Martine Bellanger Jan 19, 3H • Session 2. Development of international programs for cancer prevention : the example of breast cancer, Sophie Lelievre, Jan 19, 3H • Session 3. Economic evaluation of LT Care: Methods, M Bellanger, Jan 20, 3H • Session 4. Aging & LT care policy and funding in France, Blanche Le Bihan, Jan 20, 3H • Session 5. The long road to primary prevention of cancers, S Lelievre, Jan 21, 3H • Session 6. OECD Perspectives Elderly & LTC Tim Muir, Jan 21, 2H • Session 7. Economic evaluation of LT Care: Study cases, M Bellanger, Jan 22, 3H

	<ul style="list-style-type: none"> • Session 8. Innovation dynamics for improving life and health for patients with chronic conditions, Marie-Aline Bloch, Jan 22, 2H • Session 9. Chronic disease: integrated approaches, M Bellanger, Jan 23, 3H • Session 10. Payment systems for patients w chronic conditions, M Bellanger Jan 23, 3H
Course requirement	Students are expected to attend all lectures. Beyond 4:00 pm, students are required to read some materials, practice cases and prepare their individual project.
Grading and assessment	<p>There are two cumulative assignments. The first will evaluate the quality (relevance, feasibility and adequacy) of the projects developed by the student in class (40% of the final grade). These projects are assigned to be submitted by January 26, 11:00 pm.</p> <p>The second assessment consists in a written exam planned on February 4 2015.</p> <p>This exam will evaluate students' responses to a series of questions related to 1) the economic evaluation methods used to value informal care; 2) the merits and limitations of a range of organizations & payments for LT social & health care; 3) impacts of primary prevention for chronic diseases, such as cancer. (60% of the final grade).</p> <p>More information on the second exam will be given during the course</p>
Location	George Sand EHESP Campus in Paris
Readings	<p>Articles (on electronic reserve): <u>Articles available on REAL website</u> OECD 2011– Health Reforms: Meeting the challenge of ageing and multiple morbidities. OECD Publishing. http://dx.doi.org/10.1787/9789264122314-e Haidong Wang*, Laura Dwyer-Lindgren, Katherine T Lofgren, Julie Knoll Rajaratnam, Jacob R Marcus, Alison Levin-Rector, Carly E Levitz, Alan D Lopez, Christopher J L Murray, Age-specific and sex-specific mortality in 187 countries, 1970–2010: a systematic analysis for the Global Burden of Disease Study 2010, <i>The Lancet</i> 2012 WHO 2005, Preventing CHRONIC DISEASES a vital investment. Report Murray CGL et al Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013, <i>The Lancet</i>, July 2014</p> <p>Website http://www.who.int/healthinfo/global_burden_disease/estimates_regional/en/index1.htm http://globocan.iarc.fr/ http://www.afro.who.int/ http://www.healthdata.org/ Institute for Health Metrics http://www.healthdata.org/research-article/global-regional-and-national-incidence-and-mortality-hiv-tuberculosis-and-malaria</p> <p><u>Additional articles will also be provided in class</u></p>

Session 1	Common challenges for aging, LT care & chronic diseases & Global burden of disease estimation
Speakers	Dr. Martine M Bellanger Professor, Head of the MPH Programs, EHESP martine.bellanger@ehesp.fr
Session Outlines	<ul style="list-style-type: none"> • Health and economic effects of aging and of chronic diseases and implications in terms of care • Statistics: Worldwide statistics and per income level type of countries • Global Burden of Diseases (GDD), concept and definition • Estimation of Burden of diseases : Global Health Estimates GHE 2013 • Analysis of trends 2000-2011
Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> - Identify the critical factors associated with health effects of aging and chronic conditions - Analyze economic impacts of health effects on individuals and society - Use different databases and estimates such as DALYs, Potential years of life lost (PYLL) - Critically assess the measures used and the consequences in different countries studied
Duration	3 hours
Dates	Jan 16 th 2017
Training methods	Lecture In class applications,
Reading	Eikemo TA & Mackenbush JP, GBD Europe The potential for reduction of health inequalities in Europe, Report for EU Project 2014 Murray CGL et al Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013, The Lancet, July 2014 Additional reading will be made available on REAL online course platform.
Validation	An individual assignment will be given during this first session. Students will have to review published literature, use available data on a topic related to aging, chronic conditions, prevention and LT care based upon different approaches proposed along with all sessions. A While students are encouraged to work cooperatively in the completion of assigned tasks, all reports should reflect individual efforts.

Session 2	Development of international programs for cancer prevention the example of breast cancer
Speakers	Sophie A. Lelièvre, DVM, LLM (Public Health), PhD Department of Basic Medical Sciences Associate Director, Collaborative Science Purdue Center for Cancer Research, IN, US lelievre@purdue.edu
Session Outline	<ul style="list-style-type: none"> • Introduction: What is cancer? cancer as a specific chronic disease • Cancer prevention & international efforts to foster early detection of Breast Cancer (BC) • Early detection of BC, and screening • Issues around BC screening, in the US, France and Ghana • Applications of cancer prevention

Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> Describe international cancer prevention perspectives Identify challenges in breast cancer management Define different types of prevention Demonstrate the worldwide impacts of breast cancer in terms of health outcomes & economic value
Duration	3,5 hours
Dates	Jan 16 th 2017
Training methods	Lecture In class applications, case vignette Mamography screening for breast cancer
Reading	NEngl J Med 2012;367:e31 November 22, 2012 DOI:10.1056/NEJMclde1212888 Carrie N. Klabunde, Ph.D, Rachel Ballard-Barbash, M.D., M.P.H., and for the International Breast Cancer Screening Network Population-Based Screening Mammography Programs Internationally, <i>Semin Breast Dis.</i> 2007 June ; 10(2): 102–107. Additional reading will be made available on REAL online course platform
Validation	Validation is included in both the overall session assignment and the final written exam planned on Feb 4

Session 3	Economic evaluation of LT Care: Methods
Speakers	Dr. Martine M Bellanger Professor, Head of the MPH Programs, EHESP martine.bellanger@ehesp.fr
Session Outlines	<ul style="list-style-type: none"> Evaluation of long term care : context & perspectives Dementia Facts and Figures and resources used for patients with dementia Market versus non market provision of care Societal perspective to estimate LT care resource used Issues when valuing long term care Methods for giving monetary value to informal care
Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> Identify key economic & public issues related to caring people with chronic conditions, such as dementia in a long term. Analyze theoretical approaches to value informal care Use different methods to estimate long term care resources Compare and evaluate the different methods used and their consequences in terms of policies
Duration	3 hours
Dates	Jan 17 th 2017
Training methods	Lecture In class applications,
Reading	Marc A. Koopmanschap, Job N.A. van Exel, Bernard van den Berg ³ and Werner B.F. Brouwer An Overview of Methods and Applications to Value Informal Care in Economic Evaluations of Healthcare (2008) <i>Pharmacoeconomics</i> 2008; 26 (4): 269-280 Gerves C, Bellanger M, Ankri J (2013) Economic Analysis of the Intangible Impacts of Informal Care for People with Alzheimer's Disease and Other Mental Disorders, <i>Value in health</i> 16: 745 – 754 Additional reading will be made available on REAL online course platform

Validation	Validation is included in both the overall session assignment and the final written exam planned on Feb 4
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Session 4	Aging & LT care policy and funding in some EU countries
Speakers	Dr. Blanche Le Bihan, PhD, sociology & political sciences Professor, EHESP Blanche.lebihan@ehesp.fr
Session Outlines	<ul style="list-style-type: none"> • Demographic background • Developing a policy relating to frail elderly people • The French LTC Policy • A comparison of Social care systems • Care systems towards frail elderly in Europe
Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> • Identify different LT care policies towards the elderly in France and other countries. • Analyze LT care funding systems and recent reforms • Demonstrate the strengths and drawbacks of different systems & policies • Assess the impacts of public policies on the elderly and their caregivers
Duration	3 hours
Dates	Jan 17 th 2017
Training methods	Lecture In class applications,
Reading	<p>Pavolini E & Ranci C. (2008) Restructuring the welfare state: reforms in long-term care in Western European countries <i>Journal of European Social Policy</i> 2008; 18; 246. DOI: 10.1177/0958928708091058</p> <p>Da Roit B & Le Bihan B (2010), Similar and Yet So Different: Cash-for-Care in Six European Countries' Long-TermCare Policies, <i>The Milbank Quarterly</i>, Vol. 88 (3):. 286–309</p> <p>Creighton Campbell J, Ikegami N, and Gibson MJ. (2010) Lessons From Public Long-Term Care Insurance In Germany and Japan <i>HEALTH AFFAIRS</i> 29(1), 87–95 10.1377/hlthaff.2009.0548</p> <p>Additional reading will be made available on REAL online course platform</p>
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Session 5	The long road to primary prevention of cancers
Speakers	Sophie A. Lelièvre, DVM, LLM (Public Health), PhD Department of Basic Medical Sciences Associate Director, Collaborative Science Purdue Center for Cancer Research, IN, US lelievre@purdue.edu
Session Outline	<ul style="list-style-type: none"> • Context for developing primary prevention of cancer • The example of the pan American health organization (PAHO) for cancer prevention, what about elsewhere? • Prevention strategies: based on the causes for specific types of cancers • Genes & Cancer • Epigenetics and primary breast cancer prevention

Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> • Describe approaches supporting integrative primary cancer prevention • Demonstrate the role of behavioral factors, environmental factors to be included in prevention • Recommend appropriate integrative services and interventions associated with primary prevention • Translate integrative research on prevention into actionable wellness plans
Duration	3,5 hours
Dates	Jan 18 th 2017
Training methods	Lecture Exercise: implementing a cancer prevention program based on healthy diet and exercise. The importance of Public Value
Reading	Anthony Maher A & Sridhar D. Political priority in the global fight against non-communicable diseases, Journal of health global, December 2012 • Vol. 2 No. 2 • 020403 www.jogh.org doi: 10.7189/jogh.02.0204031 Banerjee A. Tracking global funding for the prevention and control of non-communicable diseases. Bull World Health Organ 2012;90:479-479A doi:10.2471/BLT.12.108795 Website http://www.purdue.edu/discoverypark/ibcn/ Additional papers will be provided on site
Validation	Validation is included in both the overall session assignment and the final written exam planned on Feb 4

Session 6	Addressing Long-term care for older people, provision, financing and quality : an OECD perspective
Speakers	Timothy Muir OECD Tim.Muir@oecd.org
Session Outlines	<ul style="list-style-type: none"> • The need for long-term care in OECD countries • Informal and formal provision of care • Coverage of LTC and expenditure • Value for money: efficiency and quality • Discussions
Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> • Identify different types of informal & formal care provisions in OECD countries. • Interpret figures on LTC coverage and expenditure • Define value for money and discuss efficiency & quality value in LTC perspectives • Discuss different LTC approaches across OECD countries
Duration	2 hours
Dates	Jan 19 th 2017
Training methods	Lecture Students' participation
Reading	OECD (2011) Help Wanted? Providing and Paying for Long-Term Care Chapter 7 Public Long-term Care Financing Arrangements in OECD Countries. OECD publishing Additional reading are made available on

	http://www.oecd.org/els/health-systems/helpwantedprovidingandpayingforlong-termcare.htm http://www.oecd.org/els/health-systems/health-data.htm Additional reading will be made available on REAL online course platform
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Session 7	Economic evaluation of LT Care: Study cases & applications
Speakers	Dr. Martine M Bellanger Professor, Head of the MPH Programs, EHESP martine.bellanger@ehesp.fr
Session Outlines	<ul style="list-style-type: none"> • Economic evaluation study cases & applications • Data analysis • Interpretation of findings • Discussion
Learning Objectives	At the end of the session, students will be able to: <ul style="list-style-type: none"> • Apply different methods to estimate long term care resources • Discuss strengths and drawbacks of the methods us • Explore potential applications to other chronic conditions
Duration	3 hours
Dates	Jan 19 th 2017
Training methods	In class applications
Reading	<p>Hurd MD, Martorell P et al (2013) Monetary Costs of Dementia in the United States, <i>n engl j med</i> 368;14 nejm.1326 org april 4, 2013: 1326-1334.</p> <p>Gervès C, Chauvin P, Bellanger MM. (2014). Evaluation of full costs of care for patients with Alzheimer's disease in France: the predominant role of informal care. <i>Health policy</i>, 116(1): 114-122.</p> <p>Goodrich K, Kaambwa B, Al-Janabi H. (2012) The Inclusion of Informal Care in Applied Economic Evaluation: A Review <i>Value in health</i> 15: 975-981.</p> <p>Additional reading will be made available on REAL online course platform</p>
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Session 8	Innovation dynamics for improving life and health for patients with chronic conditions
Speakers	Dr. Marie-Aline Bloch Professor, EHESP marie-aline.bloch@ehesp.fr
Session Outlines	<ul style="list-style-type: none"> • Innovation: concepts & methods when applied to health & quality of life for disabled and people with chronic conditions • Dynamics perspectives for managing innovation • Care coordination & care pathway: concepts and methods

	<ul style="list-style-type: none"> • Coordination and care pathway for elderly in France : the MAIA case • Discussion
Learning Objectives	<p>At the end of the session, students will be able to:</p> <ul style="list-style-type: none"> • Identify success factors for implementing innovation in health related field • Analyze and assess different coordination approaches on people with disability or chronic conditions • Explore potential applications of MAIA concept and management • Discuss the conditions for changes associated with dynamic innovations in health and social care management
Duration	3 hours
Dates	Jan 20 th 2017
Training methods	Lecture and in class discussion
Reading	<p>Bloch M.-A. et Hénaut L. (2014), Coordination et parcours. La dynamique du monde sanitaire, social et médico-social, Paris, Dunod</p> <p>Additional reading will be made available on REAL online course platform</p>
Validation	Validation is included in both the overall session assignment and the final written exam planned on Feb 4

Sessions 9 -10	Chronic diseases: integrated approaches & payment systems
Speakers	<p>Dr. Martine M Bellanger Professor, Head of the MPH Programs, EHESP martine.bellanger@ehesp.fr</p>
Session Outlines	<ul style="list-style-type: none"> • Integrated care: concepts and models • Chronic care : concepts and models • Payment systems • Comparative analysis in different countries
Learning Objectives	<p>At the end of the session, students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate how integrate care models answer needs of patients with chronic conditions • Describe chronic care models and applications • Assess critically different payment systems • Identify lessons learnt from different systems and their potential transferability
Duration	6 hours
Dates	Jan 20 th 2017
Training methods	In class applications
Reading	<p>NoteE & McKee M, Caring for people with Chronic conditions, WHO European Observatory, on health systems & policies</p> <p>Nolte E, Knai C & McKee, M. Managing chronic conditions: Experiences in eight countries, European observatory on health systems and policies</p> <p>http://www.euro.who.int/observatory</p> <p>Additional reading will be made available on REAL online course platform</p>
Validation	Validation is included in both the overall session assignment and the final written exam planned on Feb 4