

Ph.D. in “Life Course Research” – Socio-demographic curriculum

Academic Year 2024-2025

Population Health and healthcare across the life course

05-08 May 2025

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Objectives

The goal of the course is to help students become familiar with the multifaced aspects that affects individuals’ health at the different stages of their life including the measurement and analysis of outcomes, access, quality, equity and costs of health and healthcare. The course provides a practice-oriented approach with real-world applications.

The students will, by the end of the course, develop a thorough appreciation of measurement, design and analyses of methods for population health and health service studies and acquire an understanding of how these methods are presently being utilized by health care providers.

Program

Monday morning 10-13 (Instructors: Chiara Seghieri, Viviana Egidi):

- Opening of the course
- Health and ageing

Tuesday morning 10-13 (Instructors: Chiara Seghieri, Annalisa Donno):

- Population and health care performance measure frameworks and data

Wednesday morning 10-13 (Instructors: Chiara Seghieri, Annalisa Donno):

- Understanding multimorbidity, disability and frailty
- Measuring and analyzing multimorbidity, disability and frailty

Thursday morning 10-13 (Instructors: Chiara Seghieri, Annalisa Donno):

- Presentation and discussion of the assigned peer-review papers
- Recap and take-home message

Prerequisites

Basic epidemiology and demography (mortality and life tables), regression models (including Generalized Linear Models).

Suggested lectures

- Donabedian A., *The quality of care: how can it be assessed?*, JAMA, 260 (1988)
- Iezzoni LI: The Risks of Risk Adjustment JAMA 1997; 278:1600-7
- Harrison C, Fortin M, van den Akker M, Mair F, Calderon-Larranaga A, et al. Comorbidity versus multimorbidity: Why it matters. J Multimorb Comorb. 2021 Mar 2;11
- Altman BM. Definitions, concepts, and measures of disability. Annals of Epidemiology. 2014 Jan;24(1):2-7.
- Diana Kuh, the New Dynamics of Ageing (NDA) Preparatory Network. A Life Course Approach to Healthy Aging, Frailty, and Capability, The Journals of Gerontology: Series A, Volume 62, Issue 7, July 2007.
- De Lepeleire J, Iliffe S, Mann E, Degryse JM. Frailty: an emerging concept for general practice. Br J Gen Pract. 2009 May;59.
- Buckinx F, Rolland Y, et al. Burden of frailty in the elderly population: perspectives for a public health challenge. Arch Public Health. 2015 Apr 10;73(1):19.
- Robine, J. M., Jagger, C., Mathers, C. D., Crimmins, E. M., & Suzman, R. M. (Eds.). (2003). *Determining health expectancies*. John Wiley & Sons.
- Robine, J. M., & Jagger, C. (2010). Health and demography. *Demography-Volume I*, 267.
- Mathers, C. D., Sadana, R., Salomon, J. A., Murray, C. J., & Lopez, A. D. (2001). Healthy life expectancy in 191 countries, 1999. *The Lancet*, 357(9269), 1685-1691.
- Jagger, C., Cox, B., Le Roy, S., Clavel, A., Robine, J. M., Romieu, I., & Van Oyen, H. (2014). Health expectancy calculation by the Sullivan method: a practical guide. *Nihon University population research Institute (NUPRI) research paper series*, 68.