Neurology, Disability and Public Health

## Prof. Matilde Leonardi

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The course aims to provide students with an overall vision of the main neurological disorders among adults and children, and to establish an approach to the interpretation of patients’ needs and the management of disability of neurological disorders. It also aims to train students in the use of the WHO ICF Classification, introducing them to the knowledge of the main organisational elements of treatment and care paths based on the bio-psycho-social model of the ICF Classification and derivative instruments (WHO DAS 2.0), which during the course will become the tool for the organisation of projects for managing chronic conditions, starting from an analysis of neurological conditions as a paradigm.

At the end of the course, students will have developed the ability to understand and assess certain problems regarding managing people with disability and chronic diseases, particularly neurological diseases. The course will present simulation techniques and methods for defining PEI, PAI educational and assistance projects as well as rehabilitation projects using the bio-psycho-social approach for health and disability based on ICF.

Therefore, the course aims to provide students with methodological and operational tools required for operating in an educational, working and social-health context which takes into account the existing epidemiological transition (the transition from the prevalence of acute diseases to disabling chronic diseases, with particular emphasis on neurological diseases, population ageing).

At the end of the course, students will be able to organise a multi-disciplinary service, tailored to the person in question, and draft a PAI and a PEI based on the bio-psycho-social model.

***COURSE CONTENT***

Outline of epidemiology; principles of neurology; neurological semeiology for non-neurologists; main neurological pathological frameworks of adults and children; disability due to neurological pathology and more generally to chronic disease; presentation of clinical cases, definition of a functioning and disability profile with ICF classification. Introduction to ICD, ICHI, WHO-DAS 2.0, a functioning and disability assessment instrument and MDS Model Disability Survey instrument. Introduction to the principles of disability management, with particular attention to the world of work and employment. At the end of the course, students will be able to use the ICF language, code with ICF (use of ICF checklists and related tools), and evaluate barriers and facilitators in the design of treatment and care pathways.

***READING LIST***

M. Leonardi, *Neurologia per non-neurologi,* Cusl, 2013.

ICF-CY, *Classificazione internazionale del funzionamento, della disabilità e della salute-Versione Bambini e Adolescenti*, Erickson, Trento, 2007, Complete version.

ICF in English available on the WHO website: [*https://www.who.int/standards/classifications/international-classification-of-functioning-disability-and-health*](https://www.who.int/standards/classifications/international-classification-of-functioning-disability-and-health)

ICF in Italian available on the Italian Portal of Classifications [*https://www.reteclassificazioni.it/portal\_main.php?&portal\_view=home*](https://www.reteclassificazioni.it/portal_main.php?&portal_view=home)

World Health Organization, *How to use the ICF: A practical manual for using the International Classification of Functioning, Disability and Health (ICF). Exposure draft for comment. October 2013,* WHO, Geneva, Available ONLINE for free: http://www.who.int/classifications/drafticfpracticalmanual.pdf

Additional material provided by the tutor during the course.

***TEACHING METHOD***

Lectures, monitored practical work, exercises involving ICF Classification.

***ASSESSMENT METHOD AND CRITERIA***

The examination is in two parts, written and oral; both are compulsory.

The written test is composed of multiple choice questions and open-ended questions on topics regarding ICF and neurological disorders studied during the course, it will be followed by oral evaluation that will focuss on questions concerning the neurological diseases studied and on a practical exercise carried out on an exemplary clinical case to be coded with ICF.

The examination dates will be posted on the lecturer’s webpage and on Blackboard.

***NOTES AND PREREQUISITES***

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| Being it an introductory course, there are no prerequisites in terms of course content, although a basic knowledge of the anatomy of the nervous and peripheral system may help students to better understand the topics covered. |

Further information can be found on the lecturer's webpage at http://docenti.unicatt.it/web/searchByName.do?language=ENG or on the Faculty notice board.