UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Knowing Physiology, Diagnosis and Treatment Basics of Postural Defects

2425-3-I0101D129

Aims

Develop in the student the competence of promoting health and care of people with postural alterations-postural vices

Contents

Physiology of posture, major changes in posture, diagnosis and therapeutic approach

Detailed program

Introduction to posturology
Physiology and main postural defects
Diagnostic and therapeutic approach
Visit to a dedicated clinic

Prerequisites

Enrolment in the third year of the Degree in Nursing

Teaching form

The lesson takes place in the dispensing mode in presence through frontal lesson and practical demonstration

Textbook and teaching resource

Aubonnet R, Shoykhet A, Jacob D, Di Lorenzo G, Petersen H, Gargiulo P.Physiol Meas. (2022) Postural control paradigm (BioVRSea): towards a neurophysiological signature.
3;43(11). doi: 10.1088/1361-6579/ac9c43.

Baudry S, Penzer F, Duchateau, (2014) Vision and proprioception do not influence the excitability of the corticomotoneuronal pathway during upright standing in young and elderly adults. J.Neuroscience ;268:247-54. doi: 10.1016/j.neuroscience.2014.03.026.

Efstathiou MA, Giannaki CD, Roupa Z, Hadjisavvas S, Stefanakis M.. (2022) Evidence of distorted proprioception and postural control in studies of experimentally induced pain: a critical review of the literature. Scand J Pain; 22(3):445-456. doi: 10.1515/sjpain-2021-0205.

Henry M, Baudry S. (2019) Age-related changes in leg proprioception: implications for postural control. J Neurophysiol,122(2):525-538. doi: 10.1152/jn.00067.2019.

Moon KM, Kim J, Seong Y, Suh BC, Kang K, Choe HK, Kim K.. (2021) Proprioception, the regulator of motr function, BMB Reports;54(8):393-402. doi: 10.5483/BMBRep.2021.54.8.052.

Pollock AS, Durward BR, Rowe PJ, Paul JP..(2000) What is balance?; Clin Rehabil 14(4):402-6. doi: 10.1191/0269215500cr342oa.

Proske U, Gandevia SC. (2012), The proprioceptive senses: their roles in signaling body shape, body position and movement, and muscle force. Physiological reviews; 92(4):1651-97. doi: 10.1152/physrev.00048.2011.

Semester

second semester

Assessment method

Frequency

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING