

AHED - Advanced Health Education
Rua Manuel Joaquim Avelar, 118 - Piso 2
2750 - 421 Cascais
phone +351 911 191 954
info@ahed.pt >> ahed.pt



/ MULTIPROFESSIONAL CARE
INTEGRATION CHALLENGES

NEUROREHABILITATION / MOTOR SKILL LEARNING AND NEUROPLASTICITY IN THE NEUROLOGICAL PATIENT

20-I16



Advanced
Health
Education

by NOVA Medical School



NEUROREHABILITATION

MOTOR SKILL LEARNING
AND NEUROPLASTICITY
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COURSE COORDINATOR >> António Fernandes Lopes, PT, MSc
Hugo Santos, PT, MSc

COURSE PRESENTATION

In recent years there has been significant progress in understanding the neural substrates that support motor learning, both in normal situations and in neurological diseases.

Technological and scientific advances in neuroimaging have provided a new insight into the functional reorganization associated with acquisition, consolidation, and retention of motor skills.

The extent of cortical neuroplastic changes have been shown to be a key neurophysiological characteristic for the level of functional recovery after brain injury. Thus, intervention strategies that attempt to maximize cortical reorganization, based on the neurophysiological principles of neural plasticity, provide the greatest potential for successful rehabilitation in improving motor and cognitive functions following central nervous system injury.

This course aims to review the most recent evidence on the neuroplastic changes that occur in association with motor and cognitive disorders due to neurological damage. In addition, the essential role of motor skills training will be discussed in order to guide the clinician in optimizing the rehabilitation strategies of neurologically injured individuals. We will also analyse the evidence showing that functional and structural plasticity of the nervous system occurs at different spatial and temporal scales.

LEARNING OBJECTIVES >> KNOWLEDGE AND SKILLS TO DEVELOP

- 1 To review and to deepen the behavioural and neurobiological principles that support the neuroplastic changes associated to the mechanisms of learning and recovery of the function after neurological injury.**
- 2 To define and discuss the practice parameters that effectively stimulate neuroplastic changes and motor learning.**
- 3 To highlight methods that promote positive neuroplastic changes.**
- 4 To discuss how neurorehabilitation should be organized to optimize the recovery of motor function.**

TARGET AUDIENCE

Course for all health professionals working in the area of neurorehabilitation

ADMISSION CRITERIA

>> Curriculum vitae including certificate of academic qualifications or professional certificate, a proof of professional practice in the area of neurorehabilitation and a letter of motivation for the theme of the course.

ATTENDANCE REQUIREMENTS

100% attendance is mandatory for issuing attendance certificate and CME credits and/or ECTS

MAX. ATTENDEES

>> 48

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AGENDA

2020 / NOVEMBER

NOV 27TH

4:00 pm - 8:00 pm

@ Escola superior de Saúde de Alcoitão

- >> What is the physiology that supports the neuroplastic changes?
- >> The principles of experience-dependent neuroplasticity
- >> The neuroplastic changes associated to the different phases of the neurological lesion
- >> [Re-] Acquisition of motor skills
Translating the principles of neuroplasticity into clinical practice

NOV 28TH

9:00 am - 6:00 pm

@ Escola superior de Saúde de Alcoitão

- >> The contribution of cognition in motor [Re-]learning
- >> The contribution of sensitivity to motor [Re-]learning
- >> How can we handle neuroplasticity positively?
- >> Neurorehabilitation organization to optimize results
- >> Clinical cases discussion

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FACULTY

- >> Ana Vieira, PT, PhD
- >> Hugo Santos, PT, MSc
- >> Isabel Baleia, PT, MSc
- >> Patrícia Almeida, PT, PhD

CREDITS >> 1.5 ECTS

DURATION >> 12 HOURS

"The Neurorehabilitation: Motor skill learning & Neuroplasticity in Neurological Patients, Lisbon, Portugal, 27/11/2020-28/11/2020 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **10 European CME credits** (ECMEC®s).



Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity."

PRICE >> 520€

INCLUSIONS AND EXCLUSIONS IN PRICE

The price published for each course includes teaching fees, space rental, certificate of attendance, and materials used during the course. The price of the course doesn't include hotel accommodation, lunches, and dinners on course days, nor any other items unless specifically mentioned. Prices of courses published by AHED are exempted of VAT. Other items priced by AHED apart from courses may however include VAT.

APPLICATION, ADMISSION AND REGISTRATION

When applying for a course at AHED – Advanced Health Education, the applicant subjects personal and professional data that will be verified and assessed to check that admission criteria for that specific program are met. Once an application is approved, registration in the course is admitted and will require payment of the price published for the course.

APPLICATION FEES

Application fees are as follows:

- 100 € for courses priced above 1000 €
- 50 € for courses priced below equal to 1000 €

Application fees are non-refundable.

COURSE REGISTRATION FEES

The registration stage is considered completed when the total price of the course is received by AHED.

PAYMENT OPTIONS

Payment options for application and registration include credit card (Visa, MasterCard), wire transfer in Euro, and Multibanco.

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EARLY BIRD

Application fees will be discounted from the course price for registrations completed 90 calendar days before the date of the course.

For additional information, please go to in Terms and Conditions at ahed.pt

APPLICATION DEADLINE >> OCTOBER 27TH 2020

INSTITUTIONAL PARTNERSHIPS



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