



Neuroradiologie



Formation en Europe

formation codifiée



European Union of Medical Specialists
Section Radiology | Division Neuroradiology



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UEMS Charter on Clinical Neuroradiology and Interventional Neuroradiology

Below you will find the UEMS Council officially accepted Document, Naples 8 Oct 2011

[Charter on Clinical Neuroradiology](#)

and the Document

[Charter on Interventional Neuroradiology](#)

accepted

UEMS Division of Neuroradiology, in their meeting 2011-02-04

UEMS Section of Radiology in their meeting 2011-03-05

UEMS Section of Neurosurgery in their meeting 2011-05-07

UEMS Section of Cardiology 2011-02-24

UEMS Section of Neurology 2011-03-15

Documents



[UEMS recommendations CNR OFFICIAL 2011-10-08.pdf](#)



[UEMS recommendations INR 121212.pdf](#)

Last updated: Wednesday, December 12, 2012

offre de formation ESNR: 3 niveaux

You are here : ESNR • Diplomas & Exams

1st Level:

ESOR - Galen Foundation Courses in
Neuroradiology

2nd Level:

EDINR - European Diploma in
NeuroRadiology based on the
Pierre Lasjaunias Course in
Neuroradiology, Diagnostic and
Interventional

3rd Level:

European Diplomas of Higher
Qualification in:

- Interventional
Endovascular
Neuroradiology
- Interventional Spine
Neuroradiology
- Advanced Diagnostic
Neuroradiology
- Paediatric
Neuroradiology
(EDIPNR)
- Head & Neck
Radiology

Eligibility for the European Diploma in Neuroradiology (EDINR)

The ESONR Committee has to ensure that a candidate fulfills all requirements before participating in the final examination. The decision of the ESONR to accept a candidate for the examination is based on a complete application form, documentation and records. Those who take the examination agree that they are bound by the Committee's rulings regarding credentials and examination scores.

The requirements to be eligible to take part in the final examination for the European Diploma of Neuroradiology (EDINR) are:

- The candidate is a certified radiologist or neuroradiologist (see note 1 and 4)
- Candidates still in a neuroradiology training post may sit the examination in their final year of training (see note 4)
- The candidate have completed all four modules of the Pierre Lasjaunias European Course of Neuroradiology (ECNR) and passed the written examinations associated with each of these modules
- Completion of application form
- Payment of examination fee
- Candidate is a member of ESNR

Additional notes:

1. The candidate must be a **certified radiologist**. In other words, he/she must have completed their radiology training according to their local national regulations. In addition they should have had a minimum of **2 years of specialist training or adequate clinical experience in neuroradiology**. Adequate clinical experience in neuroradiology is defined as working >50% of his/her clinical practice in neuroradiology. Proof of completion of specialist radiology training by the national certifying body should be submitted with the application.

FINAL EXAMINATION FOR THE EUROPEAN DIPLOMA IN NEURORADIOLOGY (EDINR)

Introduction

A new format for the final examination for the European Diploma in Neuroradiology (EDINR) will be applied in 2013. These rules explain the entry requirements and the examination process. Additional notes will clarify important points. From 2013 those eligible candidates who are successful in the final examination will be awarded the European Diploma of Neuroradiology (EDINR).

The development of Neuroradiology as a speciality within Europe continues to evolve. The final examination for the European Diploma in Neuroradiology (EDINR) is organized by the European School of Neuroradiology (ESONR) Committee. The final examination leading to the European Diploma in Neuroradiology has evolved over the last few years. This process of evolution is still ongoing. The goal of the ESONR Committee is to provide guidance to potential candidates and to administer the final examination for the European Diploma in Neuroradiology (EDINR).

The European Society of Neuroradiology (ESONR) committee is not an official certifying body yet. However, the ESNR-endorsed qualification confirms proof of additional training in addition to any national qualifications. Nonetheless, the European Diploma in Neuroradiology (EDINR) represents a standard of Neuroradiology training across Europe through attendance at the Pierre Lasjaunias European Course of Neuroradiology (ECNR) and proof of understanding by passing the various components of the individual course examinations as well as of the final examination, objective high quality test of knowledge at the end of training and certificate of excellence.

There will be overall three components to the examination (written knowledge examination with multiple choice questions (MCQs) at individual course modules, final written examination with short cases and a final oral examination), further details of which are explained later in this document. Briefly, these will consist of a written multiple-choice questions examination and an oral examination.

The formal annual examination for the EDINR will take place one day before the beginning of the Annual Scientific Meeting of the European Society of Neuroradiology. This is necessary in order to bring together both candidates and examiners.

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European Diplomas of Higher Qualification in:

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- Interventional Spine Neuroradiology
- Advanced Diagnostic Neuroradiology
- Paediatric Neuroradiology (EDIPNR)
- Head & Neck Radiology

European Advanced Courses of Higher Qualification in

Interventional Endovascular Neuroradiology,

Interventional Spine Neuroradiology,

Advanced Diagnostic Neuroradiology,

Paediatric Neuroradiology,

Head & Neck Radiology

- Duration and programmes of the courses may differ.
- Courses organized by the ESNR (i.e. the Interventional Courses) are open only to ESNR Full Members who have completed the ECNR and are ESNR certified as “Fellow in Neuroradiology” as specified in the rules above.
- Courses organized with other associations (i.e.: European Society of Paediatric Radiology, American Society of Spine Radiology) will, of course, not require ESNR Full Membership as a prerequisite for participation. Only a certificate of attendance will be delivered.
- Only ESNR Full Members certified as Fellow in Neuroradiology, will be allowed to undergo the examination for ESNR Certification of:
 - Higher Qualification in Interventional Endovascular Neuroradiology
 - Higher Qualification in Interventional Spine Neuroradiology
 - Higher Qualification in Advanced Diagnostic Neuroradiology
 - Higher Qualification in Paediatric Neuroradiology
 - Higher Qualification in Head & Neck Radiology



ESONR course of Higher Qualification in Interventional Endovascular Neuroradiology



1ST CYCLE STUDENTS
2009-2010

The European School of Neuroradiology (ESONR) was founded by the ESNR in order to organize the training pathway in Neuroradiology, and to deliver the European Certification of Neuroradiology in the different branches of this discipline.

The ESONR Course of Higher Qualification in Interventional Endovascular Neuroradiology is an essential part of this training. The complete cycle includes three 3 days courses: Aneurysms, cerebral ischemia and Stroke, Arterio-Venous Malformations and Dural Fistulas, Spinal cord and Cervico-Facial Vascular Diseases.

These ESONR courses are mainly focused on practical aspects of INR. The spirit of these sessions is to complement the Pierre Lasjaunias European Course in Diagnostic and Interventional Neuroradiology with theoretical lectures, practical sessions as workshops (cases discussions, video demonstrations, PP presentations...) and hands-on training on simulators or animals. The number of students is strictly limited to 24 to allow smooth development of these courses and proper interactivity. After the complete cycle and adequate training, students should sit the examinations for the certification of «Higher Qualification in Interventional Endovascular Neuroradiology».

The ESNR Interventional Committee is pleased to welcome you in this course. Serge Bracard (Chairman) Mario Muto, Georges Rodesch, Robin Sellar, Michael Söderman, Pedro Vilela.



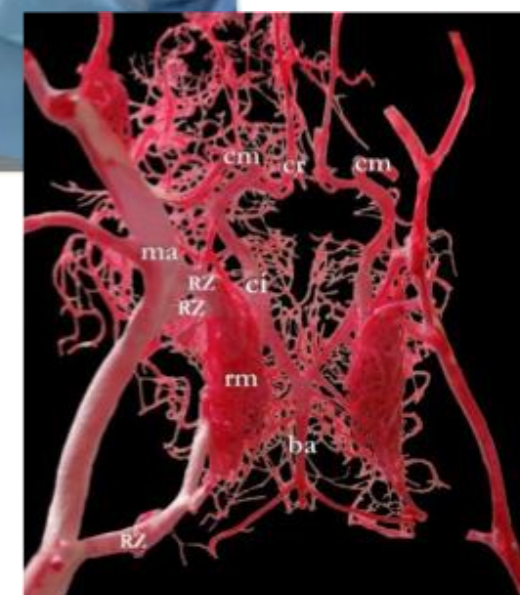
VIRTUAL REALITY



WORKSHOPS



LECTURES



5th Cycle of the ESNR Advanced Course of Higher Qualification in Interventional Neuroradiology (ACHQ-INTR)

The aim of the courses is that the students should acquire basic knowledge about:

- Functional neurovascular anatomy
- Neurovascular pathology
- Management based on knowledge of anatomy and pathology

Course 1

Lisbon, Portugal, May 5-9, 2014

Topic: Functional Neurovascular Anatomy

Format: one full week (24+24 students) with examination

Course 2

a. Stockholm, Sweden, June 2-4, 2014

b. Bern, Switzerland, September 8-10, 2014

Topic: arterial stenosis and stroke

Format: three full days (12 students each)

Course 4

Hamburg, Germany, January 26-29, 2015

Topic: Aneurysms and misc. + examination

Format: three full days and the examination before lunch day 4 (24 students from the cycle)

Course 3

a. Naples, Italy, October 6-8, 2014

b. Limoges, France, November 17-19, 2014

Topic: DAVS, AVM and spine

Format: three full days (12 students each)

autres cours

The screenshot shows the ESMINT website with the following content:

- Header:** ESMINT logo, "European Society of Minimally Invasive Neurological Therapy", navigation menu (HOME, MEMBERS, ABOUT, JOIN, EVENTS, TRAINING & EDUCATION, CASEBOOK, DEVICE DIRECTORY, RESEARCH, CONTACT), search bar, and social media icons.
- Left Sidebar:** "TEACHING COURSE" menu with years 2013-2008; "Sponsors" section including Stryker, Penumbra, BALT, and NeuroNews.
- Main Content:** "6th ESMINT Teaching Course" banner, dates (7-11 December 2013), location (Universitat Pompeu Fabra, Barcelona, Spain), and a link to download presentations and read course notes. It lists course organizers (Prof. Dr. med. Isabel Wanke and Prof. Dr. med. Daniel Rüfenacht), main topics (Aneurysm - Stroke - AV Fistula), course topics, venue (Universitat Pompeu Fabra), and a brief description of the course.
- Right Sidebar:** "EJMN JOURNAL" announcement, "Latest Articles" section with three article titles and dates.

- cours commun ESNR ESMINT en gestation

autres



Zurich Course on Diagnostic and Interventional Neuroradiology

22 - 27 August 2014

University Hospital of Zurich, Switzerland

The screenshot shows the LINNC ONLINE website. At the top, there is a navigation bar with the LINNC ONLINE logo and a search bar. Below the navigation bar, there is a banner for the "JUNE 23-25, 2014 PARIS - FRANCE" event at the Carrousel du Louvre. The main content area is divided into several sections: "MY DASHBOARD" with links to "EDITORIAL TEAM", "VIDEOS", and "VIDEOS & SLIDES"; "Read & Share" with a featured article titled "I'm a poor lonesome physician to take a therapeutic decision!" and a "Read more" link; "Exclusive interviews" with three video thumbnails for Prof Peter K. Nelson, Prof Jose Suarez, and Dr Rodrigo Rivera; "Call for Clinical Case" with a "Submit now!" button; and "Poll" with the question "Where would you like to see LINNC US take place next year?". There are also "Quick links" at the bottom left and a "Literature review" section at the bottom.

The screenshot shows the NeuroIMC website. At the top, there is a banner for the "NEUROIMC NEUROINTERVENTIONAL MASTER COURSE" with a sunset background and the text "Organised by: Dr. Luis López-Ibor". Below the banner, there is a navigation bar with links to "Home", "IV NeuroIMC", "Past editions", and "Contact". The main content area is divided into several sections: "welcome to NeuroIMC website" with the text "IV NeuroIMC // January 16-17th 2015" and "Neuro Interventional Radiology Master Course"; "BEYOND FRONTIERS IN NEUROINTERVENTIONAL RADIOLOGY"; "HOSPITAL UNIVERSITARIO CLINICO SAN CARLOS" with a photo of the hospital and the text "Madrid, Spain January 16-17, 2015"; "Dear friends & colleagues," with a paragraph of text; "Preliminary faculty" with the text "IV NeuroIMC // January 16-17th 2015"; and "Contact Us" with the text "Hospital Clínico San Carlos" and "info@neuroimc.com". There is also a logo for "FUNDACION JUAN IBOR LOPEZ-IBOR" and a photo of Dr. L. LOPEZ-IBOR.

Exchange Programme for Neuroradiology Fellowship

The need to sufficiently qualify further young radiologists/neuroradiologists to render confident diagnosis in central nervous system imaging (CNS) using state-of-the-art CT and MRI systems and the new development of interventional neuroradiology, led the European Society of Radiology (ESR) and the European Society of Neuroradiology (ESNR) to take the initiative in establishing an exchange programme for fellowships or subspecialisation training in neuroradiology.

Aim

Recent advances in diagnostic and interventional neuroradiology have rapidly expanded the range of applications of this subspecialty. The programme offers an opportunity to complement subspecialisation training in neuroradiology or an existing structured fellowship programme, through exchange, in this field of radiology. Through three months of training the trainee will be provided with intense modular training in neuroradiology and will be supervised by a specialised tutor in a pre-selected, highly esteemed, academic training centre in Europe.

Number of available places

During 2013, five exchange programmes will be offered, organised through ESOR, and the successful applicant will receive a grant jointly provided by ESR/ESOR and ESNR.

Eligibility

1. These exchange programmes are applicable radiologists within three years after certification, who desire to subspecialise in neuroradiology.
2. Basic knowledge of current clinical practice in radiology with regard to CT, MRI and basics of angiography. Competence in producing a radiological report, in communication with clinicians and patients, and knowledge of the principles of administration and management applied to a clinical department with multi-disciplinary staff and high-cost equipment is essential. Understanding the medicolegal implications of uncertainty and errors in diagnostic radiology is necessary. A clinical background in other disciplines, which has been achieved through clinical experience and training prior to entering the fellowship. Clinical experience in neurology, neurosurgery is advantageous.
3. Applicants must be proficient in English.
4. ESR and ESNR membership fees for 2013 must be settled.

certification, qualification initiale

- neuroradiologie : Portugal,
- radiologie
- European Diploma in Neuroradiology de l' European School of Neuroradiology : n' est pas un diplôme d' exercice, pas reconnu
- Neuroradiologie Interventionnelle: idseule la France a un arrêté de compétences...

Requalification/ DPC

WFITN recommendations for certification and maintenance of competence in Interventional Neuroradiology

(Therapeutic NeuroIntervention/ Endovascular Neurosurgery)

Organizing Committee : Luc Picard, Serge Bracard, Georges Rodesch

WFITN Executive Committee: Serge Bracard, Winston Chong, Darren B. Orbach, Luc Picard, Sirintara Pongpech, Jurgen Reul, Georges Rodesch, Michaël Soderman, Allan Taylor, René Van Den Berg.

Participants in the different Seminars (2013 _ 2014): Alex Berenstein, Alessandra Biondi, José Guilherme Caldas, Saruhan Cekirge, In Sup Choi, Christophe Cognard, Eduardo Da Costa, Olof Flodmark, Massimo Galluci, Toshio Hyogo, Anil Karapurkar, Axel de Kersaint Gilly, Luis Lemme Plaghos, Marco Leonardi, Ling Feng, Pedro Lylyk Michel Mawad, Joao Melo Neto, Mario Muto, Ronie Piske, Jean Raymond, Daniel Roy, Gerhard Schroth, Dae Sul Chuh, Istvan Szikora, Karel Terbrugge, José Tevah, Anton Valavanis,

sous presse dans Interventional Neuroradiology