

Faculty of Medicine  
Department of Medical, Surgical and Advanced Technologies "G.F. Ingrassia"

ADVANCED TRAINING COURSE IN  
**NEUROENDOVASCULAR INTERVENTIONS**  
(DIAGNOSTIC ANGIOGRAPHIC procedures – Part I)  
(INTERVENTIONAL procedures – Part II)

A.Y. 2019/2020

**DIRECTOR:** Prof. Simone PESCHILLO

**HONORARY DIRECTORS:** Prof. Roberto DELFINI and Prof. Guido GUGLIEMI

### **1 - Purpose**

The endovascular treatment of cerebral and spinal vascular diseases has greatly increased over the last few years.

Most cerebral aneurysms today are treated using the most sophisticated endovascular techniques based on the type of aneurysm itself (fusiform / saccular, small / medium / large, broad collar, broken / not broken), with the help of coils, coils and balloons, stents and flow diversion stents.

The same approach concerns the treatment of arteriovenous malformations (AVM) and spinal and intracranial dural fistulas, in which endovascular treatment is always the first therapeutic option.

Furthermore, the results of the most recent studies dealing with endovascular treatment of ischemic stroke have demonstrated the advantage of this type of treatment in selected patients, particularly in those with occlusion of the large cerebral vessels (ICA, MCA and basilar artery).

Owing to the relatively young age of this super-specialization, no clear training program has so far been established for medical staff working in this field, in order to guarantee appropriate care and treatment.

In the light of the above, it is clear that to maintain an elevated level of the procedures involved in endovascular treatment, a common training program with the necessary detail and certification is required

Consequently, institution of this Course derives not only from the need to maintain a high standard of academic and practical training but also from the recent re-organization the "**Stroke Network**" in the Italian health system; in particular, hospitals have been divided into "HUB" and "SPOKE" centers: "HUB" hospitals are second level centers collecting all patients who require endovascular treatment for cerebral and spinal pathological conditions.

The Course is clearly designed to fulfil not only educational but also caring requirements; in particular, this is focused on endovascular treatment of ischemic stroke and brain aneurysms.

Its aims are to establish a common training program capable of providing medical staff with a wide basic knowledge in both clinical Neuroscience and competence in the procedures related to clinical activity in **NEUROENDOVASCULAR INTERVENTIONS**.

The Course is targeted at physicians who comes from Neuroscience field and interested in developing a real professional basis in the field of endovascular treatment of **cerebral and spinal pathologies (specialists and residents in Neurosurgery, Neurology and Neuroradiology)**.

a) The specific intervention / contribution of experts and operators with documented experience working in public and private Hospitals and Research Institutions: in particular, specialists in endovascular treatment of cerebral and spinal vascular pathologies from the following structures will take part:

1. Vittorio Emanuele General Hospital - Catania
2. Niguarda Hospital - Ca 'Granda - Milan
3. San Camillo Hospital - Rome
4. Santa Maria alle Scotte general hospital - Siena
5. Cannizzaro Hospital - Catania
6. Pope John XXIII Hospital – Bergamo
7. Ospedale Bellaria - Bologna
8. San Gerardo Hospital of Monza - Monza

In order to allow all participants to have a broad case-pathology mix, it was decided to divide the participants into centers of national importance.

During the course the participants will have to perform a minimum of procedures as an operator.

The final exam, which will focus on a theoretical and practical simulator test, will be held at the University of Catania.

## 2 - Admission requirements

All Course participants must have a first-level degree, specialist degree or teaching degree in MEDICINE AND SURGERY: preference will be given to specialists in Neurosurgery, Neurology or Radiology and to residents in one of these specialties.

Students with academic qualifications obtained in foreign Universities, previously acknowledged as equivalent for admission purposes and/or in the context of inter-university cooperation and mobility programs can also apply for admission.

Admission will not be granted to candidates who do not possess the qualifications requested; candidates with foreign qualifications must obtain a declaration of equivalence before applying. The qualifications requested must be possessed on the last day valid for application. The declaration of equivalence of foreign qualifications must obligatorily be attached to the application form.

**Foreign attendees must speak fluent English.**

To be admitted to the Course candidates will be submitted to an interview; the teaching board will evaluate the outcome of the interview and the qualifications of candidates and establish a list on the basis of the pre-established criteria.

**Completing the 6 months DIAGNOSTIC ANGIOGRAPHIC PROCEDURES module or, in alternative, providing an equivalent training from another Institution, is a prerequisite for entering the interventional module.**

Candidates may come from Neuroscience field (Neurosurgery, Neurology, Neuroradiology).

Priority assessment will be given to previous experience as a Neurointerventionist.

There is no incompatibility between participation in an advanced training course and other academic studies.

## 3 - Number of places available

The Course will be activated when the minimum quota of 5 participants is reached. The maximum number of participants will be 14.

## 4 - Duration and organization of training activities

The lectures will be held by national and international teachers who work in centers of the highest European, American, South American, Indian and Japanese levels.

Headquarters of the lectures will be the University of Catania. Some lessons can also be held online via videoconference.

The Advanced Training Course lasted 6 months + 6 months (total 12 months) with a didactic / practical commitment of 360h (14h / week for 26 weeks) total hours, of which 24h are reserved for lectures (40h = 5 CFU) and 340h reserved for vocational training (340h = 17 CFU [20hx15 CFU = 340h]).

Within the training activities of the Advanced Training Course there is a didactic / practical training internship at the institution:

1. INTERVENTIONAL NEURORADIOLOGY - NIGUARDA HOSPITAL - CA 'GRANDA - MILAN;  
or
2. INTERVENTIONAL NEURORADIOLOGY - SAN CAMILLO HOSPITAL - ROME;  
or
3. INTERVENTIONAL NEURORADIOLOGY - POLICLINICO SANTA MARIA AT THE SCOTTE - SIENA;  
or
4. INTERVENTIONAL NEURORADIOLOGY - CANNIZZARO HOSPITAL COMPANY - CATANIA;  
or
5. ENDOVASCULAR NEUROSURGERY - POLICLINICO VITTORIO EMANUELE - CATANIA  
or
6. INTERVENTIONAL NEURORADIOLOGY - SAN GERARDO DI MONZA HOSPITAL  
or
7. INTERVENTIONAL NEURORADIOLOGY - BELLARIA HOSPITAL

for a total of 360h hours.

Lessons will start on 11/1/2019 and will end in 04/30/2020.

The frequency of 85% of the activities included in the Higher Education Course entitles you to the certificate of attendance and allows the possible recognition of 20 university formative credits within a Master's course, as long as it is consistent with the contents of the course itself. In the event of non-attendance, or other behavior that is in any case reprehensible, the Director may decide not to issue the certificate of attendance for the Advanced Training Course. In this case the paid registration fees will not be refunded.

## 5 - Course enrollment and registration

Enrolment will be effective on payment of the registration fee according to the modalities and end-dates detailed in the initial announcement.

In exceptional cases, via prior authorization by the University Accounts Dept., it is possible to accept payment of the fee for a participant made by a third party by bank transfer, specifying the code attributed to the Course and the matriculation number of the participant.

### Grants and funding from external bodies

The teaching board has the faculty to offer grants to cover the registration fees of students admitted to the Course, even using funding from public and/or private Institutions or Societies.

In the event of low attendance, poor performance or reprehensible behaviour, the board of teachers can decide to suspend or expel the participant and interrupt the payment of any grants. In such cases the registration fee cannot be refunded.

Students who have paid and have attended the Course as established by the program, will receive an "Attendance certificate" signed by the Course Director at the end of the course.

### Registration fee

The fee for participating in the NEUROINTERVENTISTICS for each Course module is € 3,000 (three thousand euros) (6000€ for the entire Course, I&II). The fee can be paid in one or two installments, according to the modalities specified in the initial announcement. The board of teachers can offer grants for payment of the fee on behalf of participants, even using funds from public and/or private Institutions or Societies.

The fee can only be refunded if the course is not activated.

### For information on teaching contact:

Prof. Simone Peschillo

[simone.peschillo@unict.it](mailto:simone.peschillo@unict.it)

### ADVANCED TRAINING COURSE SECRETARY:

Centro Orientamento Formazione & Placement

Via San Nullo 5/I - Catania

[cs.cof@unict.it](mailto:cs.cof@unict.it)

tel. +390957307032

### 5.1 Presentation of the application for admission

To enroll in Advanced Training Course candidates must observe the following methods:

1- Complete the application for admission to the Advanced Training Course on plain paper, using the form attached to this announcement (Annex 1).

The application form must necessarily include:

- Photocopy of a valid identity document, duly signed and legible (Identity Card / Car License / Passport);
- Self-certification of the university degree obtained;
- Photocopy of the "Declaration of Value" (for those who have obtained a university degree abroad);
- Declaration of consent for the processing of personal data (Annex 2);

**-Copy of the professional liability insurance covering the entire duration of the course;**

### **C.V.**

**-Any certified experiences in the Neuro-interventional field**

**-Authorization to attend the assigned course for 1 year full-time.**

**The application form, signed by the candidate and accompanied by the attachments, must be received by and no later than 09/20/2019 by sending the application with all the attachments scanned to the following e-mail address: [cs.cof@unict.it](mailto:cs.cof@unict.it)**

**Applications submitted after the deadline will not be accepted.**

### 5.2 Ranking of the admitted

The secretariat of the Advanced Training Course verifies the admission requirements and fixes the date of the interview is 10/07/2019 in Catania or via videoconference.

To follow will be published a list / ranking of the participants admitted to the Advanced Training course by 10/15/2019. After the ranking has been published, it is possible to enroll in the course and pay the enrollment fee.

### **6 - Registration fee for the Advanced Training course**

Participation in the Advanced Training Course includes an amount of € 3,000 (three thousand euros, 00) no later than 10/25/2019. The Academic Board has the faculty to announce scholarships for the payment of registration fees in favor of students admitted to the Advanced Training Course, including funds from public and / or private bodies and companies.

The registration fee can be reimbursed only if the course is not activated. In this case the student, to obtain reimbursement, must apply to the Director of the Advanced Training Course.

Attachment 1  
REQUEST FOR ADMISSION TO THE HIGHER EDUCATION COURSE

.....  
To the Director of the Advanced Training Course  
Prof .....  
University of Catania  
At.....  
Square / Via .....  
Postal Code ..... Catania  
The undersigned .....  
.....  
fiscal Code .....  
.....  
born in ..... the ..... nationality .....  
..... resident .. ..... Street ...  
..... CAP ..... Telephone  
..... Fax .....  
mobile ..... e-mail. ....  
.....  
Serial number: ..... (if present) Financing Body .....  
P. IVA ..... Address  
.....  
in possession of the following university degree: .....  
.....  
awarded the day ..... at the University / Institute. ....  
..... with the following vote  
.....asks to be admitted to the Advanced Training Course in .....  
.....  
established in the Faculty / Department .....  
.....  
of the University of Catania, for the academic year 2019/2020.  
To this end, attach to this:  
Photocopy of a valid identity document, duly signed and legible (Identity Card - Car License -  
Passport);  
Self-certification of the university degree obtained;  
Copy of the professional liability insurance covering the entire duration of the course;  
Photocopy of "Declaration of Value" (for those who have obtained a university degree abroad);  
Declaration of consent for the processing of personal data (Annex 2);  
C.V.  
Any certified experiences in the Neuro-interventional field  
Authorization or letter to attend the assigned course for 1 year full-time.  
The undersigned declares to have read and to approve at every point the call for admission to the  
Advanced Training Course, to be in possession of all the requisites therein and to be aware that,  
pursuant to Legislative Decree 445/2000, the issue of false or incomplete declarations constitutes a  
criminal offense.

Date Handwritten

signature of the candidate

## Attachment 2

Information pursuant to Legislative Decree 196/2003 - Code regarding personal data  
Purpose of data processing Pursuant to Article 13 of Legislative Decree 196/2003, the data you provide will be treated in the indispensable measure for the purposes connected with enrollment and attendance of the High Education course.

Processing methods and interested parties

The processing will be carried out using both manual and computerized methods. The data may be communicated to public or private institutions or bodies if it is strictly necessary for the purpose of carrying out the educational activities of the course.

Nature of data provision and consequence of a possible refusal

The provision of data is mandatory, and any refusal to provide such data makes it impossible to proceed with enrollment in the course and management of related procedural activities, as well as educational activities.

Owner and manager of data processing

The data controller is the University of Rome in the person of its legal representative, the Magnificent Rector, domiciled for the office at the University's headquarters. Responsible for data processing is the Director of the Higher Education course.

Rights pursuant to art. 7 of Legislative Decree 196/2003 - Right to access personal data and other rights

The interested party has the right to obtain confirmation of the existence or not of personal data concerning him, even if not yet recorded, and their communication in intelligible form.

The interested party has the right to obtain the indication:

- a) the origin of personal data;
- b) the purposes and methods of processing;
- c) the logic applied in the case of processing carried out with the aid of electronic instruments;
- d) of the identification data concerning the data controller, data processors and the designated representative pursuant to Article 5, paragraph 2;
- e) the subjects or categories of subjects to whom the personal data may be communicated or who can learn about them as appointed representative in the State, managers or appointees.

- The interested party has the right to obtain:

- a) updating, rectification or, when interested, integration of data;
- b) the cancellation, transformation into anonymous form or blocking of data processed in violation of the law, including those for which conservation is not necessary in relation to the purposes for which the data was collected or subsequently processed;
- c) the attestation that the operations referred to in letters a) and b) have been brought to the attention, also with regard to their content, of those to whom the data have been communicated or disseminated, except in the event that such fulfillment occurs it proves impossible or involves a manifestly disproportionate use of resources with respect to the protected right.

- The interested party has the right to object, in whole or in part:

- a) for legitimate reasons to the processing of personal data concerning himself, even if pertinent to the purpose of the collection;
- b) to the processing of personal data concerning him for the purpose of sending advertising materials or direct sales or for carrying out market research or commercial communication.

Signature for acceptance