



**MASTERS IN HANDS-ON SURGICAL APPROACHES TO THE ANTEROLATERAL SKULL BASE,  
RECONSTRUCTION AND INDICATIONS A.A. 2018/2019**

**Course Directors**

Prof. Talacchi Andrea

**Level: II**

**Duration:** one year

**Posts (MIN/MAX):** 8/16

**Registration fee: € 4.016,00**

€ 50,00 at application

€ 2.016,00 at the time of enrollment (15/11/2018)

€ 2.000,00 30/04/2019

**CFU:** 61

**Internship:** Yes

**Teaching language:** English.

**Minimum presence:** 80%

**Registration time window:** from 08/08/2018 to 28/10/2018

**Further information (teaching):**

Referent for didactics: Aurel Hasanbelliu [aurelbelliu@yahoo.it](mailto:aurelbelliu@yahoo.it)

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**Administrative and technical information:**

U.O. Master e Corsi di perfezionamento e di aggiornamento professionale

Via San Francesco, 22 – 37129 Verona

Tel. +39 045 802 8767 (info on background career) from Monday to Friday from 10.00 until 12.00

Tel. +39 045 802 8023 (general info) from Monday to Friday from 10.00 until 12.00

e-mail: [segreteria.master@ateneo.univr.it](mailto:segreteria.master@ateneo.univr.it)

**CAREER OPPORTUNITIES**

1. Knowledge: Upon completion of the course, participants will be able to pursue a career in a specialist area in basic (anatomy) or clinical (neurosurgery, maxillofacial surgery, otorhinolaryngology) medicine.
2. Skills: Upon completion of the course, participants will be able to demonstrate clinical skills in performing and managing surgical interventions: formation of the treatment team, surgical planning and follow-up, design and develop continuing medical education programs.
3. Competencies: Upon completion of the course, participants will have a thorough knowledge of theoretical and practical requirements for engaging in collaborations and improving outcomes in patients with anterolateral brain diseases.

**LEARNING OBJECTIVES**



Upon completion of the course, participants will be able to apply their theoretical and practical competencies to surgical approaches to the anterolateral skull base for the treatment of brain diseases.

Specifically:

- Acquire anatomical knowledge about simple and complex approaches
- Understand functional changes
- Understand clinical applications
- Acquire a range of views and techniques from specialists from different surgical disciplines
- Determine the best technique for treating similar pathologies in each case
- Perform surgical techniques on the cadaver using advanced technologies
- Experiment with microsurgical and endoscopic techniques
- Watch live or recorded activities and discuss cases with the experts
- Appreciate the importance of reconstruction associated with the surgical technique
- Acquire competence in evaluating clinical outcome
- Discuss potential clinical complications associated with the surgical technique
- Learn from the experience of international specialists
- Create a sharing environment that fosters long-term collaboration

### **ADMISSION REQUIREMENTS**

A successful applicant for admission to the master's course will:

- Hold a medical degree and medical board certification to practice medicine and/or surgery or
- Hold a medical degree awarded by a recognized university outside Italy, equivalent by level, nature, content, and academic rights to an Italian degree required for application to the course.

Such applicants will attach and present the following original documents:

1. Medical degree diploma with legalized translation and a declaration of value issued by the Italian consulate of the country where the diploma was obtained.
2. A decree by the Ministry of Health confirming the equivalence of professional qualification to practice medicine in Italy.

Non-EU nationals residing in Italy will need to upload their permit to stay in Italy, which is valid and states the reason it was issued. Non-EU nationals not residing in Italy will need to upload their study visa and postal receipt of their request for permit to stay in Italy. On receipt of the permit, they will present a photocopy of the permit with their application.

Applications will be accepted only for the full one-year master's course.

### **EVALUATION CRITERIA FOR ADMISSION**

Should the number of applicants exceed the number of places available, the Scientific Committee will issue a second participants' roster based on the applicant's CV graded as follows: medical degree and postgraduate studies (if completed) (10 points); training experience or scientific publications or motivational aspects for participating on the course (10 points).

### **PERIOD OF CONDUCT AND SITE**

December 2018 - December 2019

ICLO Verona srl - Via Evangelista Torricelli 15/A - 37135 Verona – Italia

AOUI (Azienda Ospedaliera Universitaria Integrata) Verona - Piazzale Stefani 1 - 37128 Verona - Italia

### **INFORMATION CONCERNING THE PERFORMANCE OF DIDACTICS**

The Master Course offering is designed as part of a continuing professional development program in which the achievement of theoretical knowledge and practical skills is certified. Participants will receive bibliographies and Web links for the distance learning components of the course and a cadaver head on which to work, which will be kept at the ICLO.



At the end of the course an interview will be conducted in small groups on clinical cases to evaluate diagnostic classification, choice of surgery, surgical planning and considerations to prevent complications.

During the year, participants will take part in continuing professional development activities via e-learning of lesions, clinical cases, conferences, seminars, and, importantly, surgical fellowships at Verona and at the Faculty's facilities (Milano, Bologna e Napoli), as requested and as possible in operative scheduling at the surgical services of the departments of neurosurgery, maxillofacial surgery, and otorhinolaryngology.

The Master comprises also three full-immersion 3-day modules conducted every quarter year. The three courses will be held in Verona at the ICLO on three weekends, Friday through Sunday (dates to be announced in June 2018) to accommodate participants' work schedules. Activities will include multimedia lectures that are propedeutic to the cadaver practicals; much of the individual work in the dissection lab will be tutor guided step by step, following practical demonstration of a procedure. Participants will work in pairs and alternate with the principal operator in carrying out the procedure. Sessions will include presentation of recorded and live events, clinical case discussions, and exemplary cases. The course faculty will be selected based on their clinical and

1 Course - Transcranial approaches: pterional and derived approaches. The course will address transcranial approaches to the anterior and middle cranial fossa, the pterional and other derived approaches, orbitozygomatic, fronto-orbital, zygomatic, and minimally invasive approaches, the intracranial areas that can be exposed, including the plenum sphenoidale, the tuberculum sellae, the sellar and parasellar region, the cavernous sinus; the cerebral areas that can be exposed, including the frontobasal, hypothalamic, temporomesial structures, fissures and cisterns.

2 Course - Medial subfrontal approaches: The course will primarily address endoscopic transnasal approaches to the skull base for the treatment of intracranial frontobasal, ethmoidosphenoidal lesions, including the sellar turcica, and parasellar region, and the clival region including the atlo-occipital joint. Various treatment options will be explored and discussed. Particular attention will be devoted to reconstruction techniques.

teaching experience; the course will have a tutor to participant ratio of 1:2. At least one expert of international renown will be invited to teach on the course.

3 Course - Guided dissection of the anterolateral skull base, including the orbit. A brief theoretical exposition on surgical approaches to the orbit will round up the range of techniques that can be performed. This course will be mainly conducted in the laboratory so that participants can refine their techniques and develop their interests.

### **PROJECT WORK, COURSE WORK ASSESSMENT, FINAL EXAMINATION**

Verifications will take place continuously.

At the end of the course an interview will be conducted in small groups on clinical cases to evaluate diagnostic classification, choice of surgery, surgical planning and considerations to prevent complications.

Active participation will be taken on consideration for the final judgment