



School of Medicine

**ANNUAL REPORT
2017–2018**

ANNEX V – Post-graduation-Report Academic Year 2017-2018

University of Minho

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1. Master and PhD programs

The present report includes the information related to the academic year 2017/2018 (September 2017 - July 2018).

With respect to formal degrees, the School of Medicine (EM) presently offers a Master in Health Sciences and 3 PhD degrees: in Health Sciences (including a track with industry partners), in Medicine (including a track, the MD/PhD, in which medical students start the PhD before finishing the medical degree) and in Aging and Chronic Diseases (PhDOC).

While there are no scholarships for the Master degrees, PhD students can get scholarships from the Portuguese Science Foundation (FCT, either on a national call for individual scholarships or by applying to funded FCT-PhD programs), from other national sources included P2020 specific calls, and also from Marie Curie training networks and other international funded projects.

In 2017/2018, the EM enrolled students supported by the following programs:

- FCT MD/PhD program awarded to the EM (in which medical students start the PhD before finishing the medical degree), in its 5th edition.

- FCT-PhD inter-institutional program in Aging and Chronic Diseases, a joint program with the Medical School of the University of Coimbra and the Faculty of Medical Sciences, New University of Lisbon; in its 5th edition.

- FTC PhD program in Health Sciences (Applied), awarded to the EM, which is a program affiliated with companies and spin-offs (BIAL, BNML Enlightenment Eurotrials, iCognitus, iSurgical3D, José de Mello Saúde, Têxtil Manuel Gonçalves and Stematters); in its 3rd edition.

- FCT national call for scholarships.

Marie Curie-Skłodowska Innovative Training Network, H2020-MSCA-ITN-2016ITN, ESR14.

- The PGCD, Graduate Program Science for Development (Gulbenkian/PALOP).

- Protocol SENESCYT, Inter-Institutional Cooperation Agreement between the Secretaría de Educación Superior, Ciencia, Tecnología e Innovación da República do Equador and the University of Minho.

In the academic year 2017/2018 (September 2017/July 2018), 30 new students enrolled in our PhD programs (21 in Health Sciences, of which 9 in the PhDiHES track, and 9 in Medicine of which 2 in the MD/PhD track), and 18 enrolled in the Master program in Health Sciences. On the other hand, 33 students successfully completed their programs: 19 PhD students (9 in Medicine, 8 in Health Sciences and 2 in Aging and Chronic Diseases), and 14 Master students.

During the academic year of 2017/2018, the EM had a combined total of 40 Master and 158 PhD students. Of the latter, 68 were enrolled in the Health Sciences (of which 26 in the PhDiHES track), 27 in the PhDOC and 63 in the Medicine degrees (of which 23 in the MD/PhD track).

To provide the opportunity for potential candidates to be aware of the opportunities provided by the EM/ICVS in advanced training, a specific OPEN DAY took place on April; this initiative counted with about 20 participants external to the EM/ICVS.



2. Advanced courses

The postgraduate offer of EM continues its mission to provide the scientific community with opportunities for career development and advanced training, by presenting courses and workshops intended for medical doctors and researchers in the biomedical sciences.

2.1. Courses offered

From September 1st 2017 until July 31st 2018, the international postgraduate program offered 40 courses and workshops (listed below), some of which are part of the formal Master and PhD training programs. One thousand, three hundred and seventeen participants attended these courses.

Following is the list of courses offered in the academic year 2017/2018:

FETAL AND NEONATAL ENDOSCOPIC SURGERY

Jorge Correia-Pinto, Tiago Henriques-Coelho
September 4-6, 2017 ::: 9th Edition

HYPOSPADIAS REPAIR

Jorge Correia-Pinto, Ruben Lamas-Pinheiro
September 7-8, 2017 ::: 1st Edition

FUNDAMENTALS IN NEUROSCIENCE

Tiago Gil Oliveira, Fernanda Marques, Hugo Almeida
September 11-29, 2017 ::: 10th Edition

GYNECOLOGICAL LAPAROSCOPIC SURGERY

Hélder Ferreira, João Bernardes, Cristina Nogueira-Silva
September 21-23, 2017 ::: 9th Edition

CAPSULE ENDOSCOPY TRAINING PROGRAM

José Cotter, Bruno Rosa
September 25-27, 2017 ::: 2nd Edition

ADVANCED EMR AND ESD WORKSHOP

Carla Rolanda, Mário Dinis-Ribeiro, Arjun Koch
September 28-29, 2017 ::: 2nd Edition

FUNDAMENTALS IN IMMUNOLOGY AND INFECTION

Jorge Pedrosa, Egídio Torrado, Paula Ludovico
October 2-20, 2017 ::: 9th Edition

BILIARY LAPAROSCOPY

Jaime Vilaça, Daniela Sá Leão, Jorge Correia-Pinto
October 9-11, 2017 ::: 9th Edition

THERAPEUTIC ENDOSCOPY

Carla Rolanda, Ana Célia Caetano, Jorge Correia-Pinto
October 12-13, 2017 ::: 10th Edition

FUNDAMENTALS IN GENETICS, DEVELOPMENT AND NEOPLASIA

Fátima Baltazar, Bruno Costa, Rute Moura, Sandra Costa
October 23 - November 10, 2017 ::: 9th Edition

EVALUATION AND TREATMENT OF INFERTILE COUPLE

Rui Miguelote, João Luís Silva Carvalho, Isabel Reis
November 6, 2017 ::: 1st Edition

MASTER CLASS SKILLS LAB FOR LIVE ANIMAL MODEL (PEDIATRIC LAPAROSCOPY)

Jorge Correia-Pinto, João Moreira-Pinto
November 8-9, 2017 ::: 2nd Edition

BASIC LAPAROSCOPY FOR RESIDENTS

João Nuno Torres, Vera Trocado, Paulo Mota, Jorge Correia-Pinto
November 10-11, 2017 ::: 13th Edition

RESEARCH METHODOLOGIES

Manuel João Costa
November 13-30, 2017 ::: 9th Edition

ARTERIAL STIFFNESS AND EARLY VASCULAR AGING

Pedro Cunha, Jorge Cotter, Nuno Sousa
November 15-17, 2017 ::: 6th Edition

MINIMALLY INVASIVE SPINE SURGERY

Rui Duarte, Bruno Santos, Pedro Varanda
November 17-18, 2017 ::: 6th Edition

SONOANATOMY APPLIED TO PERIPHERAL NERVE BLOCKS

José Miguel Pêgo, António Melo, Ronald Silva
November 23-25, 2017 ::: 12th Edition

BIOINFORMATICS IN HEALTH SCIENCES

Nuno Osório, Bruno Costa

December 4 - January 5, 2018 ::: 9th Edition

FOOT AND ANKLE SPORTS MEDICINE

Hélder Pereira, Bruno Pereira, Manuel Vieira da Silva, Jorge Correia Pinto

December 15-16, 2017 ::: 3rd Edition

BIostatISTICS IN HEALTH SCIENCES

Patricio Costa

January 8-28, 2017 ::: 8th Edition

RESPIRATORY DISEASES

Jaime Correia de Sousa, Pedro Fonte

January 12 - March 2, 2018 ::: 3rd Edition

ETHICS IN CLINICAL PRACTICE - STRATEGIES FOR HUMANIZATION IN HEALTH CARE

Cecília Leão, João Bessa, Miguel Julião, Nadine Santos

January 16-25, 2018 ::: 2nd Edition

PREMIUM CATARACT SURGERY

Fernando Silva

January 20, 2018 ::: 8th Edition

ERCP - THE ESSENTIALS

Luís Lopes, Jorge Canena, Carla Rolanda

January 26-27, 2018 ::: 2nd Edition

LABORATORY ANIMAL SCIENCE

Margarida Correia Neves, Magda Castelhana-Carlos, Alice Miranda

January 29 - March 9, 2018 ::: 13th Edition

HANDS-ON THE RODENT BRAIN

Ioannis Sotiropoulos, João Oliveira

February 19 - March 9, 2018 ::: 2nd Edition

PROGRESS TEST: INTEGRATING ASSESSMENT, FEEDBACK AND LEARNING

Manuel João Costa

February 23, 2018 ::: 1st Edition

EPIDEMIOLOGY

Jaime Correia de Sousa, Luís Figueiredo, Pedro Teixeira

March 12 - April 12, 2018 ::: 1st Edition

BEING A BIO-ENTREPRENEUR

Bruno Costa, Luísa Pinto, Patrícia Patrício, Joana Palha

April 3-20, 2018 ::: 4th Edition

PSYCHIATRY AND MENTAL HEALTH

Pedro Fonte, Pedro Morgado, Pedro Teixeira

April 6 - May 26, 2018 ::: 4th Edition

TRANSFORMATIONAL LEADERSHIP IN HEALTHCARE

Pedro Morgado, Alberto Abreu da Silva, Diogo Fernandes da Silva, Isabel Azevedo

April 28 - June 16, 2018 ::: 2nd Edition

NANO-BIOENGINEERING FOR MEDICINE

António Salgado, Bruno Costa, Bruno Silva

April 30 - May 19, 2018 ::: 1st Edition

BASIC LAPAROSCOPY FOR RESIDENTS

João Nuno Torres, Vera Trocado, Paulo Mota, Jorge Correia-Pinto

May 4-5, 2018 ::: 14th Edition

GYNECOLOGICAL LAPAROSCOPIC SURGERY

Hélder Ferreira, João Bernardes, Cristina Nogueira-Silva

May 24-26, 2018 ::: 10th Edition

FUNDAMENTALS IN ARTHROSCOPY

Nuno Vieira Ferreira, Manuel Vieira da Silva

June 7-8, 2018 ::: 9th Edition

AROUND THE NOSE: ENDOSCOPIC SINUS SURGERY AND TRANSNASAL ENDOSCOPIC SKULL BASE

Fausto Fernandes, Francisco Moreira da Silva, Rui Fonseca, Jorge Correia-Pinto
June 14, 2018 ::: 5th Edition

AROUND THE NOSE: FUNDAMENTALS IN RHINOSEPTOPLASTY

Fausto Fernandes, Francisco Moreira da Silva, Rui Fonseca, Jorge Correia-Pinto
June 15, 2018 ::: 5th Edition

AROUND THE NOSE: SURGERY FOR SNORING AND OSAS

Fausto Fernandes, Francisco Moreira da Silva, Carlos Matos, Jorge Correia-Pinto
June 16, 2018 ::: 5th Edition

APPLIED CLINICAL PSYCHOPHARMACOLOGY

João Bessa, Pedro Morgado, Luís Correia, Daniela Freitas
June 18-22, 2018 ::: 1st Edition

EVALUATION AND TREATMENT OF INFERTILE COUPLE

Rui Miguelote, João Luís Silva Carvalho, Isabel Reis
June 22-23, 2018 ::: 2nd Edition

Detailed information on the courses is available at www.med.uminho.pt/en/post-graduation/courses.

2.2. Participants

Figure 1 presents the professional background distribution of the 1317 participants. Similar to previous editions, the vast majority of the participants were medical doctors (81%), which reflects the commitment of EM in pursuing continuous medical education as well as the acceptance of the medical community, not only in the country but also abroad.

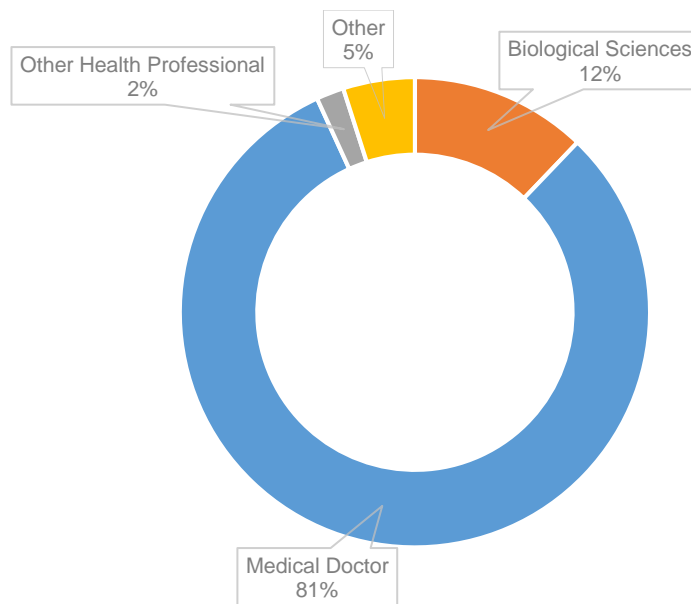


Figure 1 - Background distribution of the participants (“Other Health Professionals” include participants having as background pharmacy, psychology or clinical analysis and public health; “Others” include participants having as background polymer, biotechnological, biological, food technology or chemical engineering).

Figure 2 presents the institutional origin of the participants.

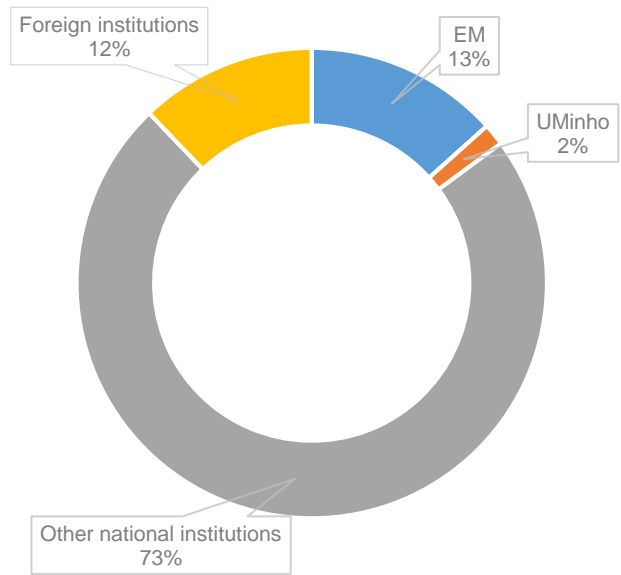


Figure 2 – Participants’ affiliation.

The great majority of the participants (85%) belong to Institutions other than the University of Minho, of which 12% originate from foreign institutions; showing the ability to attract interest from outside our own institution and country.

2.3. Global assessment

A questionnaire was filled by 899 out of the 1317 total participants (68% response rate), to evaluate several aspects of each course. The overall evaluation provided the results presented in Figure 3; 86% of the participants considered the courses very good or excellent.

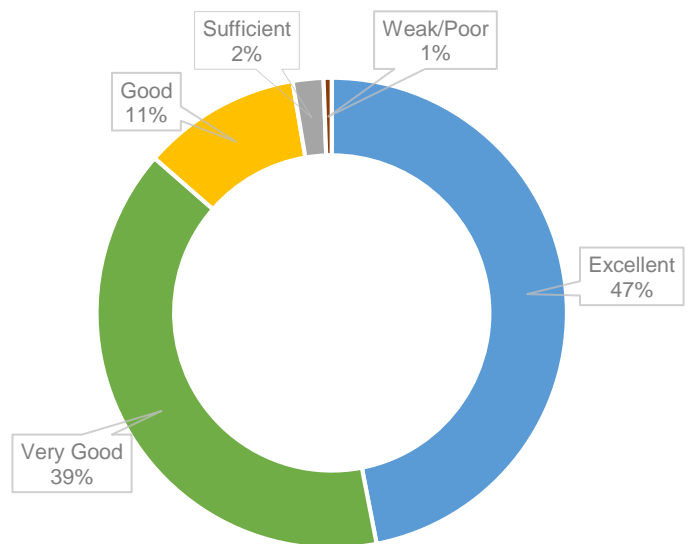


Figure 3 – Evaluation results.

3. Courses for residents

The EM, in collaboration with its Alumni association, has been offering since 2011 hands-on introductory and advanced courses addressing specialized competencies for residents in various medical specialties. These courses are highly valued by residents from all over the country and many are endorsed by the respective specialty boards. The following took place in the 2017/2018 academic year.

3.1. InAnesthesia

"InAnesthesia" is an intensive training program, nationwide, addressed to all newly admitted residents in anesthesiology. It is recognized by the Anesthesiology College of Portuguese Medical Association (Ordem dos Médicos), the Portuguese Anesthesiology Society and CAR – Portuguese Regional Anesthesia Club (ESRA). The course is divided in two modules. The first, "InAnesthesia - Introduction to Clinical Anesthesiology" occurs in the first week of the internship work. It consists of five intense days focused on the theoretical basis for clinical practice of Anesthesiology, and on training of specific skills in high-fidelity simulators (monitoring, arterial and venous catheterization, airway manipulation, induction general anesthesia and regional anesthesia). Participants also they contact with simulated patients to learn the clinical interview technique and how to handle the patient who will be anesthetized. The second, "InAnesthesia - Advanced Simulation" is a 3-day program, aimed at all Anesthesiology resident, regardless of the degree of training, where they are exposed to complex situations based on real cases and they are trained in various techniques and team management as well as communication issues in crisis situations.

In 2018 the InAnesthesia courses had its 8th edition, with a total of 142 participants and more than 90 trainers. ("InAnesthesia - Introduction to Clinical Anesthesiology - 80 - all residents admitted to anesthesiology; "InAnesthesia - Advanced Simulation" with a total of participants - 62). Participants rated the introductory course as very good (42%) or excellent (58%) and the advanced course as very good (43%) or excellent (55%).

3.2. iPsychiatry

iPsychiatry – Introduction to Psychiatry" is an advanced course addressed for residents beginning their specialization in Psychiatry. The innovative program was designed to combine clinical seminars in areas like psychopathology, psychotherapy and psychopharmacology, with practical sessions with standardized patients in our clinical skills laboratory, in which the residents have the opportunity to practice and develop skills related with communication, clinical interview and management of psychiatric emergencies.

In 2017/2018 the course had its 6th edition, with the participation of 75 residents, which corresponds to 100% of the national residents admitted in Psychiatry, in addition to the participation of international residents in Psychiatry. This year the course benefited from the support of the Portuguese Medical

Association (*Ordem dos Médicos*) with the participation of the President of the National Psychiatry College to welcome the new residents. Both the clinical seminars and the practical training were highly rated by the participants (clinical seminars: 26% very good, 64% excellent; practical sessions: 4% good , 31% very good, 65% excellent).

3.3. Courses in clinical communication

The Alumni Medicina is concerned with providing specialized courses in Clinical Communication skills that teach health professionals how to better communicate with their patients. Since communication skills have a strong influence on the quality of healthcare delivery, these courses focus on the training of communication in specific settings.

In 2017/2018, 2 courses on clinical communication, aimed at clinicians (46 participants) were offered.

4. Sponsors

In 2017/2018 we obtained financial support from several companies: Biotecnómica, Enzifarma, LusoPalex, Karl Storz and Medtronic. We are grateful to our sponsors for the helpful contribution for this international program of courses and workshops in biomedical sciences.

In recognition of the support by our sponsors, the EM/ICVS decided to establish particular categories of recognition, based on the annual commitment of the sponsors (diamond, platinum, gold, silver and bronze), which are now presented in the main hall of the EM/ICVS. All sponsors were invited to participate in the day of the ICVS, on April 6th, in which a specific mention on the relevance of their support was publically acknowledged.