

School of Health Sciences

A N N U A L R E P O R T
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University of Minho

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Universidade do Minho
Escola de Ciências da Saúde



School of Health Sciences

ANNUAL REPORT

2010 – 2011

University of Minho

September 2011

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COMPLEMENTARY PEDAGOGICAL AND SCIENTIFIC REPORTS

(Available in separate reports)

- Snapshot Medical Degree-Assessment of the Academic Year 2010-2011
- Post-graduation Report 2010-2011
- ICVS Annual Report 2010

1. INTRODUCTION

The School of Health Sciences (ECS) has celebrated in 2010-2011 its tenth anniversary. This milestone represented an important moment of internal assessment and external accountability. Overall, we are proud to say that we have achieved our goals and mission. This feeling of achievement is, however, accompanied by a sense of increased responsibility and the need to pursue continuous improvement in the next decade, to consolidate further this academic project. In parallel, we have graduated the fourth and fifth cohorts of medical students in 2010 and 2011, respectively.

In 2010-2011, and in agreement to our commitment to set the benchmark of quality at the highest international level, the ECS has promoted several important educational and research initiatives. At the educational level, the collaborative effort with the National Board of Medical Examiners (NBME-USA) was pursued so that every Minho' medical students could again participate in an international experience of assessment of clinical knowledge (along with Medical Schools from several other countries in the world). Additionally, and for the first time in 2010, we participated, in collaboration with the NBME, in the setting of a basic science exam; the experience was repeated in 2011. The performance of students in these exams was very positive, which reassured the quality of the educational programme at an international level. These results are in accordance with a highly satisfactory performance of our graduates at the national selection examination (again significantly above mean national scoring in 2010). Of notice, we also presented, and got approved by *Fundação Calouste Gulbenkian*, a project to launch a practical skill laboratory, in which an innovative approach will be set up for the acquisition and training of laboratory skills for medical students.

In order to permanently adjust the curriculum to clinical practice realities, we have introduced small, but relevant, changes in the curriculum. To expand the time for learning and training of medical semiology, we have expanded the duration of 2 curricular units in the 3rd year of the programme. In addition, and to increase the time and number of clinical electives in the 5th year of the medical degree, we have augmented the time of this curricular unit; this move, in parallel with the establishment of protocols with several day – units in affiliated hospitals and with the National Institute of Forensic Medicine, will now allow new rotations for the students to will increase their contact with expanding realities in clinical practice such as ambulatory surgery.

Also relevant is the fact that the Pedagogic Council has approved by unanimity the new Assessment Regulation. This important step is a clear demonstration of the interplay and partnership of students and faculty members in the development of this project. Additionally, and also by unanimity the

Pedagogic Council and, subsequently, the Scientific Council have approved a “New Pathway” for the Medical Degree for students holding a bachelor or “licenciatura”; this proposal was approved by the University of Minho and by the National Accreditation of Higher Education Agency (A3ES) in April 2011. The selection of students for this “New Pathway” using innovative parameters, took place between May and September 2011 and the 18 new medical students have initiated their pedagogical activities in 19 September 2011.

At the external level it is important to mention that the ECS is now coordinating the Board of Portuguese Medical Schools. In this context, we have been taking an active role in the proposal of a new exam for the assessment to Medical residencies, but also in several proposals to adjust the assessment to Medical Schools, to coordinate efforts in post-graduation activities and in the recognition of medical degrees. Overall, these cooperative efforts have provided a coordinated action and position for the Medical Schools in Portugal, and the ECS is proud to be taking an important role in this taskforce. At the international effort, we are very proud to announce that the ECS has been included in the founding members of the European Board for Medical Assessment (EuroBMA).

Regarding research activities, the Life and Health Sciences Research Institute (ICVS) is the Research Unit fully integrated in the ECS, formally recognized by the Portuguese Foundation for the Science and Technology (FCT) in 2003. The ICVS was created to develop high profile biomedical, translational and clinical research on: (i) *Microbiology and Infection*, (ii) *Neurosciences* and, (iii) *Surgical Sciences*, assuming a relevant impact at the national and international levels, as highlighted by the maximum grade of “Excellent” granted by the FCT’s International Evaluation Panels in 2003 and in 2008.

In 2010, according to the *ICVS Overall Report*, 89 papers were published in international peer-reviewed journals, with an average impact factor of 4.9. The ICVS publications included five papers in journals with impact factor above 10 of which two papers in highly recognized journals with an impact factor above 20. In addition, the work developed at the ICVS in 2010 resulted in the conclusion of nine PhD theses.

Additionally, since the beginning of 2011, more 80 papers were published or accepted for publication, with an average impact factor of 4.3. These publications included 4 papers in journals with impact factor above 10, including one paper in *Nature*. Moreover, the work developed at the ICVS from January until September 2011 resulted in the conclusion of 4 PhD and 5 Master theses; until the end of 2011, 3 additional PhD and 6 additional Master theses are expected to be defended.

Following the efforts of the ICVS to promote an application for the FCT status of “Laboratório Associado” (LA), a formal submission was delivered in partnership with the 3B's Research Group- Biomaterials, Biodegradables and Biomimetic, aiming at establishing the first LA centred in the University of Minho. As a result of this process, a new LA (*ICVS/3B's-PT Government Associate Laboratory*) was created in Portugal by the Ministry of Science, Technology and High Education, in March 2011. This represents a historic achievement for the ECS/ICVS.

The *ICVS/3B's-PT Government Associate Laboratory* focuses its research in the interface Health – Sciences/Technologies, pursuing the goal of expanding the boundaries of current knowledge and developing translational activities on innovative prophylactic, diagnostic and therapeutic solutions.

As an additional important achievement of 2010-2011, a significant amount of external/competitive funding was captured, not only from FCT, but also from the European FP7 and from International Foundations, involving a growing network of national and international scientific collaborations.

Importantly, in the spring of 2011 the third call for the formal PhD and Master programmes was successfully launched, with 18, 14 and 14 students formally selected for the Master, PhD in Medicine and PhD in Health Sciences Programs. To highlight, 4 students from our MD/PhD programme are presently developing their PhD projects and 14 students from the 1st to the 4th year of the MD curriculum participated in the summer laboratory rotations that may allow them to formally register as MD/PhD students upon completion of the 5th year of medical education.

The detailed data on the pedagogical and scientific activities in 2010 and 2011 are presented as usual in autonomous reports. The present report is intended as a summary of those activities, giving an overall view of the School's organisation and its main strategies and progresses.

Due to continuous growth of the ECS, the number of faculty and non-faculty members has also been increased. The incorporation of these new members has been in general extremely positive and their integration brought added value. This integration has been achieved in parallel with the effort to improve the scientific and pedagogic qualities of the staff. The ECS has continuously monitored the performance of every staff member in several academic domains (scientific, pedagogic and managerial); a similar monitoring policy has been put forward in what regards the non – academic staff. Importantly, and in general, these policies have now been adopted by the University.

It is of relevance to mention here the excellent interaction between the ECS and healthcare institutions with which the ECS is affiliated. There is a continuous renewal of the efforts to expand

this relevant partnership to assure the best environment for medical training and clinical care and in the last two years we have expanded our nuclear clinical clerkships in a new Hospital in Viana; with this move we have expanded our nuclear Hospitals to 3, which allows the maintenance of the low ratio students/faculty that is critical for the best clinical training.

From the financial perspective, 2010-2011 was a very difficult period for the University as a whole, and as a consequence for the Medical School. However, it is in moments of crisis that innovative solutions emerge. In parallel with a rigorous financial management, the ECS and the ICVS have significantly expanded their sources of competitive funding. This has mitigated the detrimental impact of reduced budgets and assured the conditions for the continuous development, and subsequent consolidation, of the ECS project.

In the 10th year Report we are proud of what we did! We are, however, motivated to not only keep doing it, but even to improve it!

2. PLANS AND STRATEGIES FOR 2010-2011

2.1 Objectives and Policies

The main objectives established for 2010-2011 were to consolidate the undergraduate medical programme and the ECS/ICVS infrastructures, and to open new pedagogic and scientific challenges based on our previous experiences and new demands. To achieve these aims, we focused on the:

- improvement of the pedagogic and scientific quality of the ECS project;
- adjustment of the undergraduate curriculum, based on the experience of previous editions;
- recruitment of students that, based on the specificities of the curriculum/project, apply to the undergraduate medical programme of the ECS-UM as first option;
- launching a New Pathway for medical training of graduated students (4-year programme) using our previous experience in the 6-year programme in combination with new pedagogic methods and selection tools;
- adjustment the post-graduation activities based on the previous experience of the Master and PhD programmes;
- recruitment of new staff members (faculty, non-faculty and research) that bring extra-value to the project and promoting staff development;
- strategic addition of equipment to maintain the quality of the facilities for pedagogic and research activities;
- maintaining a continuous dialogue with the national health system (Ministry, Regional and Sub-Regional Administration, Hospitals, Health Centres) partners;
- revision the School's internal regulations, adjusting them to the new legal framework, and towards increased functionally-oriented organisation;
- support of our internal and external efforts to promote the best practices in medical education and research.

2.2 Organisation and Management

At present the governing bodies of the ECS are:

Directive Board

The Directive Board meets on a weekly basis. The Directive Board manages and plans the School's in all its dimensions and monitors the on-going activities. The present composition is in Appendix I.

Scientific Council

The scope of the Scientific Council includes the scientific policy for the ECS, namely in what concerns the general guidelines for the planning and development of research, teaching and extension activities and matters related to the recruitment and promotion of the academic staff. The Scientific Council integrates part of the School academic staff with a doctoral degree. The present composition is in Appendix I.

Pedagogic Council

The main competences of the Pedagogic Council are the overview of the normal operation of the undergraduate medical degree programme and the continuous review of the curriculum. The committee also scrutinizes the actions taken as a result of the recommendations from the External Advisory Committee.

The Committee obeys to the University of Minho's regulations concerning Pedagogic Councils, with the specific adaptations required by the integrated curricular organisation and also by the structural organization into phases. The Council integrates the Course Director (President). The members of Pedagogical Council at September 30, 2011 are in Appendix I.

Scientific Areas

The ECS has implemented innovative organizational policies within the University of Minho. In contrast with the characteristic departmentalization of other Schools, the "Scientific Area" was the organizational Unit elected by the ECS. It was considered that the benefits arising from a shared administrative management with no losses in scientific autonomy suited the School objectives better; in such terms, the Department concept of territorial ownership in the curriculum is dismissed, like what had been the case on the design of the curriculum and the organization of ICVS.

The duties of the Scientific Areas are to coordinate the curricular development and delivery in the corresponding areas, and assure an implementation of the adequate educational strategies and methods. The Scientific Areas agglutinate and articulate the curricular areas in each phase of the Medical Curriculum promote the articulation between the phases, thus guaranteeing the overall coherence of the curriculum, paying attention to and eliminating omissions or repetitions. With the intention of strengthening the role of Scientific Areas Coordinators, they are elected by peers in the Scientific Area. The present Scientific Areas and respective Coordinators are listed in Appendix I.

Coordination of Post-graduate Programmes and Research

The Coordinator of the post-graduate programmes on health sciences oversees the whole postgraduate activities within the ECS. From January until September 2011 (see Post-graduation Report 2010-2011) these activities included:

- a) A programme of 13 post-graduation courses and workshops that involved 261 participants (68% medical doctors, 3% other professionals in health sciences and the remainder with a background mostly in biological sciences). Ninety three percent of the participants rated the courses as Excellent of Very Good.
- b) The admission of 28 PhD students (14 of which MDs) and of 18 Master students and the completion of 4 PhD theses and of 5 Master theses (until the end of 2011 it is expected that 3 additional PhD and 6 Master students defend their theses).
- c) The formal admission of 1 MD student with the 5th year completed in the MD/PhD program. In addition, a total of 18 students participated in 19 laboratory rotations, a pre-requisite for a future formal application to the MD/PhD programme.

The Life and Health Sciences Research Institute (ICVS) has its own governing bodies, according to the rules applying to the research units integrated in the national system of Science and Technology. The Director of the Institute liaises with the Scientific Council.

The Coordinators of Post-graduation programmes and of ICVS are in Appendix I. The coordinators of the different post-graduation courses are listed in Post-graduation Report 2010-2011.

Advisory Council of the School

Following the approval of the new Statutes of the School we have concluded the process of forming the new advisory board “The Advisory Council of the School”, with the members listed in Appendix I.

Next 9 and 10 December 2011 will take place the first meeting of the new Advisory Council of the School.

3. ARTICULATION WITH THE NATIONAL HEALTH SYSTEM

As stated in previous reports, the ECS has set up an innovative articulating strategy with the National Health System. Specifically, the following lines were developed in order to pursue the multicentre approach defined by the School.

Within the legal framework concerning the articulation between the Medical Schools and the Health Services, a legal document (*Portaria 36/2002*) establishes that the ECS is institutionally articulated, under the terms established by law, with the Regional Health Administration-North (ARS-N) and more specifically with the *Hospital de Braga*, *Centro Hospitalar do Alto Ave-Unidade de Guimarães*, *Unidade Local de Saúde do Alto Minho-Viana do Castelo/Ponte de Lima*, *Hospital Pedro Hispano (Matosinhos)*, *Hospital Joaquim Urbano (Porto)*, *Casa de Saúde do Bom Jesus (Nogueiró-Braga)* and with Health Centres in the Northern Regions of Portugal.

The results of this policy have been very positive. The first protocol established between the ECS and the Regional Health Administration-North (ARS-N), has been considered the model to be followed by all medical schools in the North of Portugal. The cooperation with the *Hospital de Braga*, the *Centro Hospitalar do Alto Ave* and *Unidade Local de Saúde do Alto Minho* developed to new dimensions, namely through a stronger involvement of health professionals in ECS. Indeed, the number of attending physicians engaged in academic and research activities has grown significantly (with some finishing their PhDs). Importantly, the level of commitment with academic activities has persisted, despite the increasing number of editions of the medical degree; the renovation of the clinical staff involved in academic activities has also progressed at a steady level. The quality of the clinical teaching continued to be recognized by students and physicians, and the presence of the students in the affiliated hospitals is well appreciated.

The cooperation with ARS-N and the Health Centres under its supervision is progressing very well in all relevant dimensions, including: (i) the practical training (*estágio*) of students in the health units; (ii) the preparation and implementation of the curricular area *Follow-up of a Family*; and (iii) the clinical area *Residence in Health Centres*.

University-Health Services Articulation

Under the scope of the protocols with the affiliated Hospitals, a School-Hospital Articulation Committee (*Comissão Mista Permanente*) was established with each of the Hospitals, including members from the ECS and from the Hospital, with the aim to coordinate and facilitate the cooperation between both institutions. A similar Committee was established with ARS-N for the articulation with Health Centres.

In accordance with the multicentre approach adopted for the clinical training of the students, the Hospital de Braga, the *Centro Hospitalar do Alto Ave* and the *Unidade Local de Saúde do Alto Minho*, as well as a network of Health Centres under ARS-N, legally (*Decreto-Lei 206/2004 de 19 Agosto*) qualify all as *Health Services with University Teaching*. The corresponding Articulation Committees have been operating on a regular basis, with the composition presented in Appendix I.

The Articulation Committees are appointed to decide on matters of relevance for the articulation between the School and the Health Services. The established Committees have adopted an Articulation Protocol that proved to be very efficient and became a central piece for the development of an efficient inter-institutional collaboration. This Protocol defines the model of cooperation (namely the Clerkship coordinating groups) in what concerns the clinical training of the medical students. These regulations cover the basic guidelines for the participation of the Health Services in the undergraduate clinical training, the competences and responsibilities of each of the participating institutions, and the term of office of the clinical supervisors and of the clinical tutors.

4. ACTIVITIES IN 2010-2011

4.1 Undergraduate Medical Degree Programme

A separate report - "Snapshot Medical Degree 2010-2011"- was prepared by the Medical Education Unit covering the undergraduate programme, detailing the pedagogical activities and results undertaken in the academic years 2009-2010 and 2010-2011. A brief mention to important highlights follows.

There were no general variations in the academic performance of students. The success rates in the first 3 year curricular units, was equal or higher than 82% for all but one curricular unit (equal or higher than 95% in five units). The results are very positive in particular considering that in the University of Minho, the overall success rate of courses in the 3 years is approximately 60% (exact figures will be available in January 2012). The 1st year is the one with the highest failing rates. The approval rates in courses in the later 4 years are above 90%, thus very high. The main conclusion in terms of academic performance is that students who successfully perform in the first year continue to thrive in the remaining of the curriculum.

Admissions and the Student Population

For the year 2010-2011, 129 new students were admitted via the national admissions process (113 under the general regime, 2 under the special regime for students from the Azores and Madeira Autonomous Regions and 4 under the special regimes for handicapped students, military and descendants of emigrants). Additionally, 6 new students were admitted through a special process for graduates, 2 through a special regime for athletes and 1 through a special regime for students from Portuguese speaking countries. The total number of new students was therefore 129. For the national admissions process, the lowest entrance grade point average for the new students was 185.31 out of 200 (if only the students under the general admission regime are considered, this value raises to 186.01) and there were a total of 1121 applicants for the 120 places. 71% of the students from the general admission regime choose Minho as their first option.

The gender balance of the new entrants in was 64% female and 36% male students. Regarding the provenance of students, 56% come from the District of Braga, 20% from the District of Porto district and 24% from other Districts of the Country.

The global number of undergraduate students registered in the medical programme in the current academic year (2011-2012) is of 146 in the first year, 137 in the second year, 136 in the third year, 107 in the fourth year, 81 in the fifth year and 59 in the sixth year. Additionally, 20 new students were admitted to a four year alternative curricular track for degree holders. The total number of students amounts to 686 (which represents an increment of 77 in comparison to the last report).

Specific highlights

A couple of points deserve a special reference in this 2010-2011 report.

One relates to the development of a Basic Science knowledge examination in collaboration with the NBME. Briefly, this exam combined 100 items of Step1 (Basic Sciences); it was administered in English and Portuguese (half-half) to all students from the 3rd and 4th year at the ECS on the same day and with no recommendations for prior preparation. Registrations for the exam were voluntary; 57% of the eligible students participated. Their performance was very positive and data on the impact of translation was also recorded and presented in an international conference.

4.2 Association of Medical Students-NEMUM

NEMUM is a non-profitable organization responsible for the representation of all medical students attending ECS. Our role is to play an active role in modelling students' progress throughout the years. We are determined to organize all sorts of events from conferences, workshops and short talks offering our students opportunities to further enrich their curricula and improve their scientific and medical training.

Additionally, we emphasize the importance of medical students participating actively in the local community right from the beginning, valuing their participation and encouraging healthy habits among the population.

At the same time, other activities are promoted in the fields of culture, sports and art. We truly believe in the significance of students' development as humanists, priming for common human needs and reflecting their responsibility in society.

In 2011, NEMUM is proud to announce the successful organization of the IV Minho Medical Meeting, the II Science and Medicine Conferences: Neurosciences, II Medical Education Day and Teddy Bear Hospital. NEMUM was also responsible for planning thirty research and professional exchanges in

collaboration with the ICVS, *Hospital de Braga* and the Portuguese Medical Students' International Committee.

It is also relevant to highlight NEMUM's cooperation with other institutions, in the promotion of the abovementioned goals. It has taken an active part in the discussion of important matters in reunion with other medical students' associations, as well as other organizations of the University of Minho.

For the future, we intend to continue to pursue the goals we firstly proposed but also improve the quality and diversity of our activities, increasing the participation of students and growing as an active organization in community's life.

NEMUM's executive board: André Miranda (President); Ana Raquel Dias (Int. Vice-President); José Pedro Águeda (Ext. Vice-President); Diana Oliveira (Treasurer)

4.3 Alumni Association

"Alumni Medicina (Núcleo de Antigos Estudantes de Medicina da Universidade do Minho) is a non-profitable association that includes all alumni of ECS, providing a collective voice for all its members. Dedicated to serve the best interests of the alumni, students and faculty, our association is raising the basis to support, in a short-term, the ECS project.

In 2011, *Alumni Medicina* has already been organizing medical talks and short courses. This year we organized two seminars about Ambulatory Therapeutics for Infectious Diseases and Ambulatory Therapeutics in Ophthalmology. We also organized a short course on "Vascular Access for Dialysis" for young residents of several medical specialties.

Alumni Medicina also closely cooperated with ECS Medical Education Unit to organize the 2nd *Med Day* that took place on May 7th. The Med Day continued its mission as an opportunity for the Alumni to get back in touch with the ECS, promoting a place not only for workshops but also for leisure activities such as the 3rd annual meeting occurred on December.

2011 was also the year to continue supporting the ECS medical students with financial difficulties. In total, fifteen students were engaged in the programme during the academic year 2010/2011.

To honour the contribution of Professor Pinto Machado for the development of the school, *Alumni Medicina* participated actively in the Tribute organized by ECS and offered around fifty books on literature and humanities to the School Library.

At the moment, efforts are being made to improve the number and quality of the courses and workshops promoted by *Alumni Medicina*, which were a success. Furthermore, efforts in fund raising are about to be made, in order to achieve further educational support and scientific programmes at the ECS.”

Pedro Morgado (President)

4.4 Post-graduation

The School continues to envision post-graduation in two perspectives: that of formal training for a degree and that of voluntary professional improvement. In the spring of 2011 enrolled for the 2011-2012 academic year, 18, 14, and 14 students, respectively for the Master Programme in Health Sciences and for the PhD Programmes in Medicine and in Health Sciences.

Still with respect to doctoral programmes, it has been the ECS’s believe that synergies with other institutions are valuable for promoting national collaborations and to endorse excellence in science. In accordance, the School collaborated in a successful multi-institutional application to the *Fundação Calouste Gulbenkian*, for an inter-institutional PhD programme in Aging and Degeneration of Complex Biological Systems, with the partnership of Faculty of Medicine (*Universidade de Coimbra*) and Faculty of Medical Sciences (*Universidade Nova de Lisboa*) that promotes interaction among the involved institutions, including the presence of the enrolled students in each institution for a period of two months, in the first year.

At the same time, the ECS continues to promote courses in cutting-edge subjects in medicine and in biological sciences. From January to September 2011 these courses counted with 261 participants, of which 68% medical doctors. It is of notice the number of participants originating from international institutions (19%) and from national institutions outside the University of Minho (63%), some of which are within European networks and/or with the support of international societies.

The School’s intention to promote clinical research is continuing, not only by enrolling MDs in translational research projects and clinical projects, but also by continuing to involve the participation of undergraduate students in laboratory rotations within the “Option projects” and

within the MD/PhD programme. To highlight in 2011 an additional student formally enrolled in the MD/PhD programme, which totalizes 4 students presently developing their PhD theses to add to the two students that successfully defended in 2010.

4.5 Research

As referred above, the ECS research activities are developed in the ICVS, a Sub-Unit fully incorporated within the School. The essential points of the ICVS activities in 2010-2011 are summarised hereafter.

Following the three contracts signed with the Government since 2000 for the infrastructural funding of the ICVS, involving a total amount of 4.2 million €, a remaining amount of approximately 0.9 million € was not transferred to the ECS. The ICVS will request this remaining sum for equipment to be installed in the animal facility wing to be constructed adjacent to the ICVS building.

Following the guiding principles of the previous years, the ECS maintained the effort of allocating as many resources as possible to the ICVS research projects, through the support of the Research Domain activities and through the reinforcement of scientific equipment and laboratories.

A detailed description of the 2010 ICVS activities and achievements is reported in the "ICVS Annual Report 2010". In this section of the ECS report, we summarise the main achievements of 2010 as well as the progresses registered during the period January-September 2011.

In 2010, it is to highlight the successful integration of a significant number of PhD researchers, totalizing 208 researchers [50 PhD researchers and 158 post-graduation students (87 PhD students, 37 Master students and 34 associate researchers)], supported by 18 members of the non-academic staff (5 in administration and 13 in the laboratories, with their salaries supported by the School).

The numbers of investigators substantially increased until September 2011, representing an increasing capacity of ICVS to recruit research staff, attaining 256 researchers [58 PhD researchers and 198 post-graduation students (106 PhD students, 49 Master students and 43 associate researchers)].

The strategy of the ICVS has been to implement a sustained increase in scientific productivity within multidisciplinary Research Domains, reflected in the increase of publications as well as average Impact Factor (IF). As a result, 89 articles were published in 2010 in international peer-reviewed journals (average impact factor: 4.9) including five papers in journals with IF above 10 of which two

papers in journals with IF above 20. Additionally, since the beginning of 2011, more 80 papers were published or accepted for publication (IF: 4.3). These publications included 4 papers in journals with IF above 10.

The work developed at the ICVS in 2010 resulted in the conclusion of nine PhD theses. Additionally, from January until September 2011 more 4 PhD and 5 Master theses were concluded; until the end of 2011, 3 additional PhD and 6 additional Master theses are expected to be defended.

Regarding the scope of the ICVS research, the priority in 2010 has been the reinforcement of the translational and clinical activities through the fostering of key partnerships in the Minho region. Among the collaborating institutions, we highlight the network of affiliated Hospitals in which dedicated clinical research takes place in the context of *Clinical Academic Centres* and the *3B's Research Group*, in addition to several other research units of the University of Minho.

In 2010-2011, we have greatly reinforced the diversification of the ICVS funding sources. Importantly, we successfully applied for three EU-FP7 Grants (in addition to three on-going EU-FP7 projects), involving preclinical and clinical studies, as well as for a multicentre clinical consortium in the context of the *Health Cluster Portugal* (HCP/QREN). In addition, 27 FCT funded projects with a clinical and translational scope were initialized (15 began in 2010 and 12 in 2011). We also got important contracts from industry, both at national and international level, namely with the following companies: *BOEHRINGER Ingelheim Pharma GmbH & Co. KG*; *New Textiles, Lda.*; *Novartis Farma-Produtos Farmacêuticos SA*; *Tecnimede-Sociedade Técnico Medicinal, SA*.

The combined teaching and research expertise of the ECS/ICVS PhD staff contributed to the successful training of medical students, promoting the interaction between different fields of biomedical research and medical education, reflected, just in 2010-2011, in the context of: (i) 34 projects in the Curricular Area "Option Projects" and; (ii) 21 rotations in the MD/PhD programme (in collaboration with the Thomas Jefferson and Columbia Medical Schools).

In conclusion, the ICVS results reported for 2010 and for the period January-September 2011 represent a sustained increase in the quality and impact of the ICVS scientific productivity which was recognized by the new status of *Laboratório Associado*. Additionally, the increasing interaction of ICVS with international high profile research institutions resulted in the increasing number of international funded projects, both in the context of the European FP7 and of International Foundations and Companies.

An important development in the near future will be the recruitment of fulltime researchers in the context of the *Laboratório Associado*. An application has been delivered and the results will be known in the beginning of 2012. Presently, the major remaining difficulty of ICVS is related with funding for the construction of the originally planned Animal Facility wing.

4.6 Human Resources

Academic Staff

As stated in former reports, the School is paying careful attention to the recruitment and promotion of academic staff. For that purpose, the ECS has established its own benchmarks/recommendations for academic progression, which was known by all the members of the faculty (and by those that express their interest in joining the faculty); interestingly, this strategy was an anticipation of the current regulation for the Universities in Portugal. Applying such policy, one decade after the start of this project, we have witnessed the expected and sustainable progression of the Faculty. Presently, the faculty is composed by 37 (47.44%) of PhDs in the faculty, of which 6 are Full Professors, 8 are Associate Professors and 23 are Assistant Professors. Moreover, the number of potential candidates with relevant scientific qualifications is high, which certainly is a consequence of the external perception of the quality of the ECS project.

It is important to be sure that the selected candidates have an adequate understanding on the institutional project and commit to contribute to the development of its specificities, namely in what concerns seven essential aspects: (i) the perspective of the programme, as a project to be constructed and developed in a participated way within the School; (ii) the student- centred learning process, in which the traditional formal lecturing loses most of its significance; (iii) the horizontal integration of the curricular contents and the modular organisation of the curriculum with the consequent transfer of management competences from individual subjects to the coordinators of the curricular areas or modules; (iv) the relevance of student's and peer assessment, permanent monitoring and quality assurance; (v) the role of the Medical Education Unit, in terms of support, coordination and monitoring in connection with the pursuit of the educational objectives; (vi) the role of research, as a crucial element for a research-based learning process, and (vii) the engagement to research activities (including submission of the research projects to the strategic guidelines and priority areas defined for the ICVS).

The Medical Education Unit has advanced with a faculty development programme to target newly admitted staff members. The programme is based on workshops, supplemented with small team activities and informal discussions that create opportunities for addressing individual issues.

In quantitative terms, there are severe administrative limitations imposed by the Government on the maximum number of full time equivalent (FTE) teaching staff that can be hired, as a function of the number of students enrolled (2010-2011, ratio 1:6.8). Thus, the standard number of FTE for the 2010-2011 academic year was of 102.

At present (September 2011), the School has a faculty of 78 members (39.75 FTE) and counts in addition with 4 visiting professors and many other collaborators, particularly related to the Clinical Residences. The full composition of the regular teaching staff is listed in Appendix II, together with their qualifications, rank and scientific area (for a matter of precision, the rank is indicated in Portuguese). The Clinical Supervisors and Tutors (considered members of the Faculty during that academic year), who supported the clinical training of the students in the Hospitals and Health Centres, in a total of around 400 clinicians, are indicated in Appendix III.

In terms of the faculty profile, it is important to highlight that 73.07% (57 out of 78) of the regular staff members are MDs.

Non-academic Staff

In Appendix I is presented the non-academic staff members, in a total of 35, and their qualifications, rank and allocation. The academic profile of the staff is above the average situation in the Portuguese higher education system (60% of the staff have a higher education degree). It also deserves to be mentioned that part of the staff is allocated to the research institute, given that the ICVS cannot hire personnel; this represents a significant effort from the ECS to guarantee the best possible conditions for the research activities in the ICVS.

The ECS is proud to say that a great care has always been given to assure that every member of the non-academic staff can also undergo educational activities that improve their qualifications. This policy has proved to be efficient and, as a consequence, a high percentage (20%) of non-academic members is/has enrolled in educational programmes to increase their qualifications since they join the ECS.

4.7 Financial Resources

Since 2000, an annual lump sum has been allocated to the ECS to cover current expenses, including salaries and small equipment. As mentioned before, all the possible saves were made in order to shift as many resources as possible to pedagogical and research equipment.

The budget allocated in 2011 was 5 683 742.26 €.

With the funding approved for ECS and ICVS, in the scope of the different contracts signed with the Ministry and FCT, several calls for tenders have been successfully conducted by the ECS staff regarding installation of scientific/pedagogical infrastructures and equipment, as well as informatics equipment, which supported the installation of the school and institute in the new building.

Regarding the FCT basal funding, the ICVS was granted 420 200.00 € over two years (2011 and 2012) through a RD&T Strategic Project contracted to the *Laboratório Associado ICVS/3B's* (PT Government Associate Laboratory). The ability to obtain external competitive funding for research projects has increased significantly in 2011. The budgets of the on-going research projects, with an average duration of three years, amount to 7.1 million € (FCT projects-4.2 million; FP7 projects-1.7 million; other national and international projects-1.2 million).

5. PLANS FOR 2012

The first goal for the near future is to assure the best possible conditions to strengthen the ECS dynamism. The project of the School is now well established and progressing as planned. According to our proposal, we will start in 2011 a New Pathway for the Medical Degree at Minho, specifically designed for students holding a Bachelor/"Licenciatura" degree; this pathway is planned to be shorter in duration (4 years), but involves a great effort from students and faculty, including complementary nocturnal pedagogic activities. This effort is a part of our care with the continuous development of the project.

This educational effort runs together with new challenges and responsibilities as an Associate Laboratory of the Portuguese Research system in a partnership with the 3Bs Research Group. In fact, it is important to highlight that this is the first Associate Laboratory that is coordinated by University of Minho and it is the first addition as Associate Laboratory in the Health Science area since the

constitution of the first Associate Labs in Portugal. Its creation constitutes the recognition of the quality of the research produced by the ICVS and 3Bs but, more importantly, it opens new perspectives for the expansion of our research activities.

In this line, we are developing new innovative collaborations with our health-care partners, namely through the creation of Clinical Academic Centres, but also by fostering new collaboration with other research partners (namely the International Nanotechnology Lab) and several industrial partners. The latter objective was tremendously driven by the Health Cluster Portugal and a very important project of QREN in which the ECS/ICVS play the coordinating role.

A final note to highlight our effort to keep increasing the national and the international visibility of the ECS/ICVS project that will hopefully impact on the recruitment of good students/researchers/academics, but also on more sustainable and diversified funding sources.

6. CONCLUSIONS

A brief analysis of the ECS's operation and development shows that once again the core strategies and goals were met in 2010-2011 in all their essential aspects. This ends the first decade of this project, in which all the major goals were met (and in several aspects even beyond our expectancies). This was only possible by combining the appropriate mixture of competence, enthusiasm, commitment and team spirit of all ECS members.

The most prominent strengths, on which the School has been building up, are the quality of the training of medical students and the reported high standards of their performance in health-care institutions as physicians; the quality of the research activities that are performed in a state-of-the-art research institute; and the innovative post-graduation activities. These have translated into a very favourable teaching and research environment at the ECS. It is our belief that the systematic monitoring of the project by a strong and informed leadership and by continuous external evaluation are the premises needed to keep the ECS/ICVS in the right track.

As a final comment, we would like to highlight the last report of the External Advisory Committee (2009) in which, as concluding remarks, one can read: "the School demonstrated a visionary strategy, a clear sense of mission, a strong leadership, the commitment of the staff to a common goal, and the motivation of the students". We believe that not only this still applies, but indeed these are the

essential ingredients that keep the ECS moving forward with the determination and the enthusiasm of all its elements.

The institutional support from the University, at all levels, has been very important to the development of the School. This is an incentive to continue to pursue with the same zeal the ideas and goals that have steered our project.

School of Health Sciences

September 30, 2011

APPENDIXES

APPENDIX I

ECS Governing, Coordination and Advisory Bodies: Members List

ECS GOVERNING AND ADVISORY BODIES: MEMBERS LIST

Directive Board

Cecília Leão, President;
Nuno Sousa, Vice-President (Director of the Medical Degree);
Jorge Pedrosa, Vice-President (Director of ICVS/3Bs);
Joana Palha, Vice-President (Director of Post-graduation).

Scientific Council

Cecília Leão, President
António Gil Castro
Fernando Rodrigues
Joana Palha
Jorge Correia Pinto
Jorge Pedrosa
Manuel João Costa
Margarida Correia Neves
Margarida Saraiva
Nuno Sousa
Paula Ludovico

Pedagogic Council

Academic Staff

Nuno Sousa (President)
João Cerqueira
Paula Ludovico
Jaime Correia de Sousa
Joana Palha
Jorge Pedrosa
João Bessa
Manuel João Costa

Students

Teresa Pinto (6thy)
Ana Luísa Sousa (5thy)
João Firmino Machado (4thy)
João Louro (3rdy)
Alberto Silva (2ndy)
Ana Isabel Sá (1sty)
Vitor Hugo Pereira (3rd cycle), PhD student
Miguel Carvalho (3rd cycle), PhD student

Scientific Area, Curricular Area and Module Coordinators

Coordinators of Scientific Areas

Biomedical Sciences: Joana Palha

Pathology: Jorge Pedrosa

Community Health: Jaime Correia de Sousa (as delegate of the President of the School)

Clinics: Nuno Sousa

Coordinators of Curricular Unit and Modules

Curricular Unit	Coordinator
Curricular Module	
Introduction to the Medical Degree	MANUEL JOÃO COSTA
Molecules and Cells	FERNANDO RODRIGUES
From Anatomy to Cellular Physiology	Paula Ludovico
Molecular Genetics Foundations	Fernando Rodrigues
Proliferation Differentiation Cellular and Death	Susana Pascoal
Functional and Organic Systems I, II and III	JOANA PALHA
Gen. Introd. and Musculoskeletal System and Skin I	Joana Palha
Gen. Introd. and Musculoskeletal System and Skin II	Armando Almeida
Digestive System	Carla Rolanda
Circulatory and Respiratory Systems I	Jorge Correia Pinto
Circulatory and Respiratory Systems II	Maria João Baptista
Urinary System	Armando Almeida
Reproductive System and Development, Growth and Ageing	Patrícia Maciel
Central Nervous System	João Bessa
Peripheral Nervous System	João Cerqueira
Endocrine System	João Sousa
Option Project I	PAULA LUDOVICO
Option Project II	ANTÓNIO GIL CASTRO
Training in a Health Centre	HELDER LANHAS
Family, Society and Health I	ALEXANDRE GOUVEIA
Vertical Domains I	CECÍLIA LEÃO
Biopathology and Introduction to Therapeutics	JORGE PEDROSA
General Pathology and Introd. to Pharmacology	José Miguel Pêgo
Genetics and Environment	Rui Reis
Immunopathology	António Gil Castro
Infectious Diseases	Margarida Correia Neves

Curricular Unit	Coordinator
Curricular Module	
Introduction to Clinical Medicine	NUNO SOUSA
Introduction to Community Health	ANTÓNIO JAIME SOUSA
Family, Society and Health II	ALEXANDRE GOUVEIA
Vertical Domains II and III	CECÍLIA LEÃO
Health Centre Residencies I and II (a)	ANTÓNIO JAIME SOUSA
Medicine I and II Residences	NUNO SOUSA
Maternal and Child Health Residence	JORGE CORREIA-PINTO
Clinical Neurosciences	NUNO SOUSA
From Clinical to Molecular Biology I and II	JOANA PALHA
Option Project III	RUI REIS
	ANTÓNIO GIL CASTRO
Optional Residencies	NUNO SOUSA
Vertical Domains IV and V	CECÍLIA LEÃO
Hospital Residencies - Final Training (a)	NUNO SOUSA
Health Centre Residency II I- Final Training (a)	ANTÓNIO JAIME SOUSA
From Clinical to Molecular Biology III	ANTÓNIO GIL CASTRO
Optional Project – Final Training	PATRÍCIO COSTA

- (a) The Clinical Coordination Group has the responsibility for the overall coordination of the clinical training programme. Each residence Coordination Group has the responsibility to the responsibility of defining learning objectives and clinical duties (skills and tasks) for the students during that Residence; they also delineate the assessment process.

School- Health Services Articulation Committees

Articulation Committee	Members from ECS	Members from the Health Service
ECS – Hospital de Braga	<i>Nuno Sousa</i> MD, PhD, Course Director <i>Cecília Leão</i> PhD, Dean	<i>Rui Raposo</i> President of the Administration Council <i>Abel Rua</i> MD, by delegation of the Clinical Director
ECS – Centro Hospitalar do Alto Ave	<i>Nuno Sousa</i> MD, PhD, Course Director <i>Maria Cecília Leão</i> PhD, Dean	<i>Jorge Cotter</i> MD, PhD, by delegation of the Clinical Director <i>Joaquim Manuel Araújo Barbosa</i> by delegation of the President of the Administration Council
ECS – Unidade Local de Saúde do Alto Minho	<i>Nuno Sousa</i> MD, PhD, Course Director <i>Cecília Leão</i> PhD, Dean	<i>Franklin Ramos</i> MD, Clinical Director <i>Domingos Araújo</i> MD, by delegation of the President of the Administration Council
ECS – ARS-N	<i>Cecília Leão</i> PhD, Dean <i>Jaime Correia de Sousa</i> MD,	<i>António Pimenta Marinho</i> MD, by delegation of the President of the ARS-N

Coordinators of Post-graduate Programmes and Research

Director of ICVS: Jorge Pedrosa

Director of the Post- graduation and of the MD/PhD program: Joana Palha

Director of the Master Program: Paula Ludovico

Coordinator of the International Postgraduate Programme 2010-2011: Patricia Maciel.

Advisory Council of the School

UMINHO/ECS Members

Rector of University of Minho (invited member)

Cecília Leão, ECS President

Nuno Sousa, ECS Vice-President

Jorge Pedrosa, ECS Vice-President

Joana Palha, ECS Vice-President

External Members

Alistair Warren (University of Sheffield, United Kingdom)

Arsélio Pato de Carvalho (University of Coimbra, Portugal)

David McFadyen (University of Edinburgh, formerly World Health Organization)

Fernando Lopes da Silva (University of Amsterdam, Holand)

Joseph S. Gonnella (Thomas Jefferson University, United States of America)

Peter V. Scoles (National Board of Medical Examiners)

Representative of *Administração Regional de Saúde, Portugal*

Representative of *Ordem dos Médicos, Portugal*

APPENDIX II

ECS Academic and non-Academic Staff - Members List

ECS Academic Staff - Members List

Name	Qualifications	Categoria (Status)
Maria Cecília L.P. Estrela Leão	PhD, <i>Agregação</i>	<i>Prof. Catedrática</i>
Joana Almeida S. Pacheco Palha	PhD, <i>Agregação</i>	<i>Prof. Catedrática</i>
Jorge Manuel Rolo Pedrosa	PhD, <i>Agregação</i>	<i>Prof. Catedrático</i>
Nuno Jorge Carvalho de Sousa	MD, PhD, <i>Agregação</i>	<i>Prof. Catedrático (s/exc)</i>
Jorge Manuel Nunes Correia Pinto	MD, PhD, <i>Agregação</i>	<i>Prof. Catedrático Conv. 100%</i>
Rui Manuel Rosário Sarmento e Castro	MD, PhD	<i>Prof. Catedrático Conv. 30%</i>
António Gil Pereira de Castro	PhD	<i>Prof. Associado</i>
Armando A.N. Pinto de Almeida	PhD	<i>Prof. Associado</i>
Fernando José dos Santos Rodrigues	PhD	<i>Prof. Associado</i>
Manuel João Tavares Mendes da Costa	PhD	<i>Prof. Associado</i>
Maria Margarida Teles de Vasconcelos C. Neves	PhD	<i>Prof. Associada</i>
Patrícia Espinheira Sá Maciel	PhD	<i>Prof. Associada</i>
Paula Cristina C. A. Monteiro Ludovico	PhD	<i>Prof. Associada</i>
João D. C. S. Espregueira Mendes	MD, PhD	<i>Prof. Associado Conv. 20%</i>
Filipa Santos Costa Pinto Ribeiro Lacerda	Lic. Biology, PhD	<i>Prof. Auxiliar</i>
João Carlos Cruz Sousa	PhD	<i>Prof. Auxiliar</i>
João José Fernandes C. de Araújo Cerqueira	MD, PhD	<i>Prof. Auxiliar</i>
João Miguel S. Bessa Peixoto	MD, PhD	<i>Prof. Auxiliar</i>
José Miguel G. Moreira Pêgo	MD, PhD	<i>Prof. Auxiliar</i>
Maria de Fátima M. Baltazar	PhD	<i>Prof. Auxiliar</i>
Adhemar Longatto	PhD	<i>Prof. Auxiliar Conv. 60%</i>
John Samuel Yaphe	MD	<i>Prof. Auxiliar Conv. 60%</i>
António Jaime Botelho Correia de Sousa	MD, MSc	<i>Prof. Auxiliar Conv. 50%</i>
Patrício Ricardo Soares Costa	PhD	<i>Prof. Auxiliar Conv. 50%</i>
Ana Raquel Franky Gomes Carvalho	Lic. PhD	<i>Prof. Auxiliar Conv. 40%</i>
Carla Rolanda Rocha Gonçalves	MD, PhD	<i>Prof. Auxiliar Conv. 40%</i>
Maria João R. Leite Baptista	MD, PhD	<i>Prof. Auxiliar Conv. 40%</i>
Pedro Alexandre L.A.G. Teixeira	MD, PhD	<i>Prof. Auxiliar Conv. 40%</i>
Rosete Maria Amorim Novais Nogueira Cardoso	MD	<i>Prof. Auxiliar Conv. 40%</i>
Tiago Gil Rodrigues Oliveira	Lic. PhD	<i>Prof. Auxiliar Conv. 40%</i>
Estevão Augusto Rodrigues de Lima	MD, PhD	<i>Prof. Auxiliar Conv. 30%</i>
Fernanda Cristina Gomes de Sousa Marques	PhD	<i>Prof. Auxiliar Conv. 30%</i>
Jorge de Almeida Berkeley Cotter	MD, PhD	<i>Prof. Auxiliar Conv. 30%</i>
Luísa Alexandra Meireles Pinto	PhD	<i>Prof. Auxiliar Conv. 30%</i>
Nuno Miguel Sampaio Osório	PhD	<i>Prof. Auxiliar Conv. 30%</i>
Rute Carina Silva Moura	PhD	<i>Prof. Auxiliar Conv. 30%</i>
Susana Alexandra Rodrigues Pascoal	PhD	<i>Prof. Auxiliar Conv. 30%</i>
Agostinho José Carvalho dos Santos	MD, PhD	<i>Prof. Auxiliar Conv. 20%</i>
Manuel José Lima da Costa Rodrigues	MD, PhD	<i>Prof. Auxiliar Conv. 20%</i>

Rui Manuel Vieira Reis	PhD	<i>Prof. Auxiliar Conv. 20%</i>
Ana Célia Caetano Catarino dos Santos	MD	<i>Assistente Conv. 40%</i>
Aníbal Miguel de Araújo Correia Ferreira	MD	<i>Assistente Conv. 40%</i>
Artur Jorge Gomes Vieira	MD	<i>Assistente Conv. 40%</i>
Carla Marina Mendonça Gonçalves	MD	<i>Assistente Conv. 40%</i>
Carlos Alberto Pereira Capela	MD	<i>Assistente Conv. 40%</i>
Cláudia Alexandra Parreira Bulhões	MD	<i>Assistente Conv. 40%</i>
Cristina Isabel Nogueira da Silva	MD	<i>Assistente Conv. 40%</i>
Cristina Raquel Costa Freitas	MD	<i>Assistente Conv. 40%</i>
Emanuel Carvalho Dias	MD	<i>Assistente Conv. 40%</i>
Hélder Novais e Bastos	MD	<i>Assistente Conv. 40%</i>
Isaac Leandro Campos Braga	MD	<i>Assistente Conv. 40%</i>
Ivo Ricardo da Silva Ferreira	MD	<i>Assistente Conv. 40%</i>
João Moreira Pinto	MD	<i>Assistente Conv. 40%</i>
José António Briote Mariz	MD	<i>Assistente Conv. 40%</i>
Luís Manuel Cunha P. Figueiredo	MD	<i>Assistente Conv. 40%</i>
Paulo Ricardo Oliveira da Mota	MD	<i>Assistente Conv. 40%</i>
Pedro Ricardo Luís Morgado	MD	<i>Assistente Conv. 40%</i>
Roberto Jorge Alves Couto	MD	<i>Assistente Conv. 40%</i>
Rui Miguel Fernandes Duarte	MD	<i>Assistente Conv. 40%</i>
Sandra de Fátima F. Martins	MD	<i>Assistente Conv. 40%</i>
Sara Cláudia Santos da Hora Gomes	MD	<i>Assistente Conv. 40%</i>
Tiago Domingues Barbosa da Frada	MD	<i>Assistente Conv. 40%</i>
Vítor Hugo da Eira Pereira	MD	<i>Assistente Conv. 40%</i>
André Santa Cruz João	MD	<i>Assistente Conv. 30%</i>
Hugo Miguel V.L. S. de Almeida	Lic. Biochemistry	<i>Assistente Conv. 30%</i>
Mafalda Fernanda Cabral dos Santos Barbosa	MD	<i>Assistente Conv. 30%</i>
Tiago Folhadela Salgado de Faria	MD	<i>Assistente Conv. 30%</i>
Ana Maria Lacerda A. Horta	MD	<i>Assistente Conv. 20%</i>
Ana Filipa Melo Coelho Carvalho Pimentel	MD	<i>Assistente Conv. 20%</i>
Ana Isabel da Silva Quelhas	MD	<i>Assistente Conv. 20%</i>
Ana Teresa Neves Magalhães	MD	<i>Assistente Conv. 20%</i>
Alexandre Coutinho Borges Gouveia	MD	<i>Assistente Conv. 20%</i>
Alexandre Manuel Câmara de Carvalho	MD	<i>Assistente Conv. 20%</i>
Hélder Augusto da Silva Lanhas	MD	<i>Assistente Conv. 20%</i>
Jean-Pierre Antunes Gonçalves	MD	<i>Assistente Conv. 20%</i>
Luís Filipe Martins da Silva	MD	<i>Assistente Conv. 20%</i>
Alexandra Sofia Lopes Miranda	MD	<i>Monitor</i>
Márcio Samuel Cunha Rodrigues	Lic.	<i>Monitor</i>

Nuno Pedro G. F. Bento Borges, *Prof. Associado /FCNA-UP (15%,in collaboration/CRUP)*

Gustavo Henrique Goldman, PhD, Prof.Titular (Universidade de São Paulo), Visiting Professor

Osborne Almeida, PhD, Researcher (Max Planck Inst. of Psychiatry), Visiting Professor

Evandro de Oliveira, MD PhD, Prof.Titular (Universidade de Campinas, São Paulo), Visiting Professor

Maria de Sousa, PhD, Emeritus Professor, (Instituto de Ciências Biomédicas Abel Salazar) Visiting Professor

ECS non-Academic Staff - Members List

Name	Qualifications	Categoria (Rank)	Service
José Carlos F. Henriques	<i>Licenciatura/Pós-Graduação</i>	<i>Secretário de Escola</i>	Head Office
Ana Paula Salgueira Rodrigues	<i>Licenciatura</i>	<i>Técnico Superior</i>	UEM
Amandine Marques Azevedo	<i>Licenciatura</i>	<i>Técnico Superior</i>	Secretariat
Lucília G. Ribeiro Pinto	<i>Mestrado</i>	<i>Técnico Superior</i>	Laboratories
Magda João Castelhana Carlos	<i>Mestrado</i>	<i>Técnico Superior</i>	Laboratories
M ^a Madalena Abreu C. Branco	<i>Licenciatura</i>	<i>Técnico Superior</i>	Secretariat
Maria Paulina D.M. Santos	<i>Licenciatura</i>	<i>Técnico Superior</i>	Project Support Office
Paula C. F. Gomes Pereira	<i>Licenciatura</i>	<i>Técnico Superior</i>	Human Resources
Sandra M ^a T. Coutinho P. V. Santos	<i>Mestrado</i>	<i>Técnico Superior</i>	Laboratories
Luís Filipe F. Oliveira Martins	<i>Licenciatura</i>	<i>Técnico de Diagnóstico e Terapêutica</i>	Laboratories
Domingos Ferreira Dias	<i>Secondary Education</i>	<i>Técnico de Informática Adjunto</i>	Informatics Office
Olga Maria S. Miranda Abreu	<i>Secondary Education</i>	<i>Coordenador Técnico</i>	Secretariat
Denise Maria F. Silva	<i>Secondary Education</i>	<i>Assistente Técnico</i>	Laboratories
Helena Maria A. Nascimento	<i>Licenciatura</i>	<i>Assistente Técnico</i>	Secretariat
Isabel Maria V. Barbosa	<i>Licenciatura</i>	<i>Assistente Técnico</i>	UEM
Maria Manuela M. Mendes	<i>Secondary Education</i>	<i>Assistente Técnico</i>	Financial Office
M ^a José T. F. Tarroso Gomes	<i>Licenciatura</i>	<i>Assistente Técnico</i>	Academic Office
Mónica Custódia C. Gonçalves	<i>Secondary Education</i>	<i>Assistente Técnico</i>	UEM
António Miguel O. da Mota	<i>Basic Education</i>	<i>Assistente Operacional</i>	Laboratories
João Filipe A. Malheiro	<i>Secondary Education</i>	<i>Assistente Operacional</i>	Laboratories
José Carlos Teixeira da Rocha	<i>Secondary Education</i>	<i>Assistente Operacional</i>	Laboratories
Maria Celina F. Barros	<i>Secondary Education</i>	<i>Assistente Operacional</i>	Laboratories
Maria Manuela S. Carneiro	<i>Secondary Education</i>	<i>Assistente Operacional</i>	Laboratories
Maria Fernanda C. Fernandes	<i>Basic Education</i>	<i>Assistente Operacional</i>	Laboratories
Susana Isabel Vaz Santos	<i>Secondary Education</i>	<i>Assistente Operacional</i>	Laboratories
Ana Paula Barreto de Oliveira	<i>Licenciatura</i>	<i>Assistente Técnico (Regime de aquisição de serviços)</i>	UEM
Cláudia Filipa Rodrigues Pereira	<i>Licenciatura</i>	<i>Assistente Técnico (Regime de aquisição de serviços)</i>	Laboratories
Fernando Paulo Duarte Silva	<i>Licenciatura</i>	<i>Assistente Técnico (Regime de aquisição de serviços)</i>	Financial Office

Jorge Manuel S.G. Freitas	<i>Licenciatura</i>	<i>Técnico de Informática (Regime de aquisição de serviços)</i>	UEM
Maria Agostinha F. Costa	<i>Secondary Education</i>	<i>Assistente Técnico (Regime de aquisição de serviços)</i>	Laboratories
Miguel João Teixeira Carneiro	<i>Licenciatura</i>	<i>Técnico de Diagnóstico e Terapêutica (Regime de aquisição de serviços)</i>	Laboratories
Paulo Sérgio S. dos Santos Cabral	<i>Licenciatura</i>	<i>Especialista de Informática, Grau 3, Nível 2 (Regime de aquisição de serviços)</i>	Informatics Office
Ricardo Filipe Silva Mota	<i>Licenciatura</i>	<i>Técnico Superior (Regime de aquisição de serviços)</i>	Post-Graduation Office
Sara Feio de A. R. Alves Malheiro	<i>Licenciatura</i>	<i>Assistente Técnico (Regime de aquisição de serviços)</i>	UEM

APPENDIX III

Clinical Coordinating Groups, Supervisors and Tutors at the Affiliated Hospitals and Health Centres

Clinical Coordinating Groups, Supervisors and Tutors at the Affiliated Hospitals and Health Centres

The Clinical Coordination Group includes the following elements:

- *Nuno Jorge Carvalho de Sousa*, MD, PhD, Associate Professor/ ECS
- *António Jaime Botelho Correia de Sousa*, MD, MPh/ ECS
- *Damião José Lourenço da Cunha*, MD, PhD, Invited Full Professor/ ECS

a) The Medicine Coordination Group

- *Nuno Sousa* (MD, PhD/ ECS)
- *Damião Cunha* (MD, PhD/ ECS)
- *Abel Rua* (MD/ Hospital de Braga) (HB)
- *Jorge Cotter* (MD, PhD/ Centro Hospitalar do Alto Ave – Unidade de Guimarães) (CHAAG)
- *Domingos Araújo* (MD/ Unidade Local de Saúde do Alto Minho) (ULSAM)
- *Diana Guerra* (MD/ ULSAM)

b) The Woman, Mother and Child Health Coordination Group

- *Nuno Sousa* (MD, PhD/ ECS)
- *Jorge Correia-Pinto* (MD, PhD/ ECS)
- *Pedro Cabrita* (MD/ HB)
- *Luísa Cardoso* (MD/ HB)
- *Almerinda Pereira* (MD/ HB)
- *Fernanda Tavares* (MD/ CHAAG)
- *Sofia Dantas* (MD/ CHAAG)
- *Maria José Costeira* (MD/ CHAAG)

c) The Clinical Neuroscience Coordination Group

- *Nuno Sousa* (MD, PhD/ ECS)
- *João Bessa* (MD, PhD/ ECS)
- *João Cerqueira* (MD, PhD/ ECS)
- *Alberto Bessa-Peixoto* (MD/ HB)
- *Aníbal Ribeiro da Fonte* (MD, PhD/ ULSAM)
- *Élia Baeta* (MD/ ULSAM)
- *Carlos Lima* (MD, PhD/ CHAAG)
- *Lurdes Rodrigues* (MD/ CHAAG)

d) The Surgery Coordination Group

- *Nuno Sousa* (MD, PhD/ ECS)
- *João Espregueira Mendes* (MD, PhD/ ECS)
- *António Mesquita Rodrigues* (MD/ HB)
- *Carlos Alegria* (MD/ HB)
- *Carlos Santos* (MD/ CHAAG)
- *Fausto Fernandes* (MD/ CHAAG)
- *Alberto Midões* (MD/ ULSAM)

e) The Community Health and Family Medicine Coordination Group

- *Jaime Correia Sousa* (MD, MSc, Family Medicine/ ECS)
- *John Yaphe* (MD, MSc, Family Medicine/ ECS)
- *Alexandre Gouveia* (MD, Family Medicine/ ECS)
- *Helder Lanhas* (MD, Family Medicine/ ECS)
- *Mário Freitas* (MD, Public Health/ ECS)

f) The 6th year Hospital's Residences Coordination Group

- *Nuno Sousa* (MD, PhD/ ECS)
- *Damião Cunha* (MD, PhD/ ECS)
- *Abel Rua* (MD/ Hospital de Braga)
- *Jorge Cotter* (MD, PhD/ Centro Hospitalar do Alto Ave – Unidade de Guimarães)
- *Domingos Araújo* (MD/ Unidade Local de Saúde do Alto Minho) (ULSAM)
- *Diana Guerra* (MD/ ULSAM)

In the current academic year, the following **Hospital Supervisors** are appointed for the on-going Residences and Sub-Specialities:

	HB	CHAA-Guimarães	ULSAM
Introduction to Clinical Medicine	Abel Rua Francisco Nunes Gonçalves	Jorge Cotter	Diana Guerra
Medicine I	Abel Rua	Jorge Cotter	Diana Guerra
Internal Medicine	Abel RuaJorge Cotter Francisco Nunes Gonçalves	Diana Guerra	
Pneumology	João Cunha	Maria Manuel Figueiredo	Rui Nêveda
Cardiology	Adelino Correia	António Lourenço	Carla Costa Dias
Gastroenterology	Adília Rebelo Carla Rolanda	José Cotter	Carlos Letra Mateus José Ramada
Maternal-Child Health			
Gynaecology	Domingos Jardim da Pena Pedro Cabrita	Fernanda Tavares	-----
Obstetrics	Luísa Cardoso	Sofia Dantas	-----
Paediatrics	Almerinda Pereira	Maria José Costeira	-----
Clinical Neurosciences			
Psychiatry	Alberto Bessa-Peixoto	Carlos Lima	Aníbal Ribeiro da Fonte
Neurology	João Ramalho Fontes	Maria Lurdes Rodrigues	Élia Baeta
Surgery	A. Mesquita Rodrigues	Carlos Santos	Alberto Midões
General Surgery	A. Mesquita Rodrigues	Carlos Santos	Alberto Midões
Urology	Estêvão Lima	Ricardo Ramires	Eurico Maia
Ophthalmology	Fernando Vaz	Luís Gonçalves	Hugo Carvalho
ORL	Luís Dias	Fausto Fernandes	Francisco Pereira
Orthotraumatology	Helena Vaz	Carlos Vilela	Miguel Leal
Neurosurgery	Carlos Alegria	-----	-----
Medicine II	Abel Rua	Jorge Cotter	-----
Internal Medicine	Abel RuaJorge Cotter Francisco Nunes Gonçalves	-----	
Infectious Diseases	Francisco Nunes Gonçalves	Jorge Cotter	-----
Nephrology	Abel RuaJorge Cotter	-----	
Neurology	João Ramalho Fontes	Maria Lurdes Rodrigues	-----
Hemato-oncology	Rui Nabiço António Marques	Camila Coutinho	-----
Dermatology	Celeste Brito	António Ferrete	-----
Hospital Residences – 6th year			
Internal Medicine	Abel RuaJorge Cotter Francisco Nunes Gonçalves	Diana Guerra	
Gynaecology	Pedro Cabrita	Moisés Moreira Pacheco	José António Maia
Obstetrics	Luísa Cardoso	Moisés Moreira Pacheco	José António Maia
Paediatrics	Almerinda Pereira	Maria José Costeira	José Rei Amorim
Mental Health	Alberto Bessa-Peixoto	Carlos Lima	Aníbal Ribeiro da Fonte
Surgery	A. Mesquita Rodrigues	Carlos Santos	Alberto Midões

Community Health and Family Medicine

ACES (Agrupamento de Centros de Saúde) do Ave I – Terras de Basto – Luís Laranjeiro

ACES do Ave II – Guimarães/Vizela – Luís Laranjeiro

ACES do Ave III – Famalicão – Helder Lanhas

ACES do Cávado I – Braga – Ana Filipa Pimentel

ACES do Cávado II – Gerês/Cabreira – Helder Lanhas

ACES do Cávado III – Barcelos/Esposende – Helder Lanhas

ACES do Grande Porto V – Póvoa de Varzim/Vila do Conde – Jaime Correia de Sousa

ULS (Unidade Local de Saúde) de Matosinhos – Jaime Correia de Sousa

ULS do Alto Minho – Alexandre Gouveia

In the current academic year, the following **Hospital Supervisors and Tutors** are appointed for the on-going Residences and Sub-Specialities:

Introduction to Clinical Medicine

Hospital	Specialty	Supervisor	Tutor
HB	Internal Medicine	Abel Rua Francisco Nunes Gonçalves	Adolfo Silva
			Helena Fernandes
			Ilídio Brandão
			Isabel Trindade
			Juan Garcia
			Lúisa Pinto
			Manuela Rocha
			Maria do Céu Rodrigues
			Narciso Oliveira
			Olinda Caetano
			Paulo Gouveia
			Rosário Araújo
			Sofia Caridade
			Sofia Esperança
CHAA-Guimarães	Internal Medicine	Jorge Cotter	Carlos Fernandes
			Clarisse Neves
			Cristina Cunha
			Cristina Ramalho
			Elisa Torres
			Estefânia Bustabad
			Filipe Gonçalves
			Helena Sarmento
			José Miguel Sá
			Marta Gonçalves
			Sandra Barbosa
ULSAM	Internal Medicine	Diana Guerra	Sara Freitas
			Augusta Silva
			Carlos Ribeiro
			Carmélia Rodrigues
			João Pedro Andrade
			Manuel Ferreira
			Raquel Lopez

Medicine I

Hospital	Specialty	Supervisor	Tutor
HB	Internal Medicine	Abel Rua Francisco Nunes Gonçalves	Adolfo Silva
			Alberto Leite
			Alexandre Carvalho
			Cristina Ângela
			Guilherme Gomes
			Helena Fernandes
			Isabel Trindade
			Manuela Rocha
			Maria do Céu Rodrigues
			Maria João Regadas
			Narciso Oliveira
			Olinda Sousa Caetano
			Paulo Gouveia
			Rosário Araújo
			Sofia Esperança
			Teresa Pimentel
	Pneumology	João Cunha	Beatriz Fernandes
			Daniela Alves
			João Cunha
			Lourdes Iglésias
			Lurdes Ferreira
			Manuel Macedo
	Cardiology	Adelino Correia Adília Rebelo	Rui Rolo
			Adelino Correia
			Alberto Salgado
			António Gaspar
			Catarina Vieira
			Jorge Marques
			Nuno Salomé
			Pedro Azevedo
			Sérgia Rocha
			Sérgio Nabais
			Sónia Magalhães
			Vítor Ramos
	Gastroenterology	Carla Rolanda	Ana Célia Caetano
			Anibal Ferreira
			Carla Rolanda
			Paula Peixoto
			Pedro Bastos
			Raquel Gonçalves

CHAA-Guimarães	Internal Medicine	Jorge Cotter	Ana Silva
			Clarisse Neves
			Cristina Ramalho
			Elisa Torres
			Emília Lopes
			Glória Alves
			Helena Sarmento
			José Miguel Sá
			Marta Gonçalves
			Pedro Cunha
CHAA-Guimarães	Pneumology	Maria Manuel Figueiredo	Sandra Barbosa
			Sara Freitas
			António Costa
			Duarte Araújo
			Maria José Guimarães
			Maria Manuel Figueiredo
CHAA-Guimarães	Cardiology	António Lourenço	António Lourenço
			Francisco Ferreira
			Isabel Quelhas
			Marina Fernandes
			Vítor Hugo Pereira
CHAA-Guimarães	Gastroenterology	José Cotter	Ana Isabel Rebelo
			Bruno Rosa
			Carla Marinho
			Francisca Dias de Castro
			Joana Magalhães
			José Manuel Ribeiro
			Mara Barbosa
			Maria João Moreira
			Pedro Moutinho Ribeiro
			Sílvia Leite
ULSAM	Internal Medicine	Diana Guerra	Carlos Ribeiro
			Carmélia Rodrigues
			João Pedro Andrade
			Manuel Ferreira
			Paula Felgueiras
			Raquel Lopez
ULSAM	Pneumology	Rui Nêveda	Elena Lombardia
			Francisco Diaz
			José Albino Lopes
			Rui Nêveda
ULSAM	Cardiology	Carla Costa Dias Carlos Letra Mateus	Carla Costa Dias
			Carlos Letra Mateus
			Rui Lima
			Vânia Enes

ULSAM	Gastroenterology	José Ramada	João Carrasquinho
			José Ramada
			Luís Lopes

Clinical Neurosciences

Hospital	Specialty	Supervisor	Tutor
HB	Psychiatry	Alberto Bessa-Peixoto	António Sousa Cepa
			David Jurjo
			Filipa Pereira
			Joana Mesquita
			Joaquim Duarte
			Jorge Gonçalves
			Maria Luísa Silva
			Natália Fernandes
			Patrício Ferreira
			Sónia Azenha
CHAAG	Psychiatry	Carlos Lima	Sónia Simões
			Carla Ferreira
			Esmeralda Lourenço
			João Pereira
			Ricardo Maré
			Carlos Lima
			Feliciano Guimarães
			Rosa Maria Rodrigues
			Sónia Ramos
			Ângela Sousa
ULSAM	Neurology	Maria Lurdes Rodrigues	Maria Lurdes Rodrigues
			Daniela Faria
			Paula Pina
			Élia Baeta
			Sandra Perdigão
			Aníbal Ribeiro da Fonte
			Élia Baeta
			Sandra Perdigão
			Élia Baeta
			Sandra Perdigão

Maternal-Child Health

Hospital	Specialty	Supervisor	Tutor
HB	Gynaecology	Pedro Cabrita	Afonso Rocha
			Etelvina Cruz
			Luís Castro
			Paula Serrano
			Pedro Cabrita
	Obstetrics	Luísa Cardoso	Blandina Gil
			Fernando Cardoso Ricardo
			Luís Carvalho
			Luísa Cardoso
	Paediatrics	Almerinda Pereira	Ana Antunes
			Ângela Oliveira
			Ângela Pereira
			Carla Moreira
			Clara Machado
			Helena Silva
			Jean Pierre Gonçalves
			Henedina Antunes
			Liliana Abreu
			Liliana Pinheiro
	Neonatology	Almerinda Pereira	Manuela Alves
			Maria João Magalhães
			Teresa Pontes
			Albina Silva
			Carla Sá
			Eduarda Abreu
			Isabel Cunha

CHAA-Guimarães	Gynaecology	Fernanda Tavares	<hr/> Diana Coelho Filipa Brás Manuela Mesquita Pedro Oliveira Pedro Vieira de Castro Ricardo Santos Rosa Sardinha Vivas de Freitas <hr/>
	Obstetrics	Sofia Dantas	<hr/> Ana Maria Andrade António Almeida Carla Duarte Elsa Pereira Herminia Afonso Rosa Maria Fernandes Sofia Costa Vera Costa <hr/>
	Paediatrics	Maria José Costeira	<hr/> Ana Luísa Lobo Armandina Neto Carla Meireles Cláudia Neto Cristina Ferreira Isolina Aguiar Maria José Valle <hr/>
	Neonatology	Maria José Costeira	<hr/> Agostinha Costa Clara Dias Joana Neves <hr/>

Surgery			
Hospital	Specialty	Supervisor	Tutor
HB	General Surgery	A. Mesquita Rodrigues	André Goulart
			Carlos Gomes
			Conceição Antunes
			Cristina Ribeiro
			Dina Luis
			Elsa Amorim
			Fernando Manso
			Joaquim Falcão
			Maia da Costa
			Mário Reis
			Miguel Simeão
			Patrícia Botelho
			Pedro Koch
			Pedro Leão
			Sónia Vilaça
			Teresa Carneiro
	Urology	Estêvão Lima	André Quinta
			António Pedro Carvalho
			Jorge Ribeiro
	Ophthalmology	Fernando Vaz	Vítor Hugo Nogueira
			Fernando Vaz
	ORL	Rui Prata	Angelina Barroso
			Berta Madureira
			Duarte Freitas
			Filipa Moreira
			Joana Guimarães
			Gabriel Pereira
			Luís Dias
			Matos Gonçalves
			Nuno Marçal
			Rui Prata
	Orthotraumatology	Manuel Vieira da Silva	Sérgio Vilarinho
			Catarina Alves
			Duarte Alegre
			Eurico Bandeira
			Gustavo Pereira
			Nuno Ferreira
			Nuno Sevivas
			Nuno Tavares
			Paulo Coutinho
			Pedro Varanda
			Ricardo Maia
			Rui Duarte

HB	Neurosurgery	Carlos Alegria	Afonso Almeida Pinto João Abreu Lima Miguel Afonso Ricardo Moreira Rui Almeida
	General Surgery	Carlos Santos	Andreia Santos Carlos Alpoim Diana Teixeira João Reis Jorge Magalhães Lima Terroso Manuel Ferreira Marina Oliveira Ricardo Moreira Rui Pinto Santos Costa Vitor Costa
CHAA-Guimarães	Urology	Ricardo Ramires	Carlos Guimarães Jaime Faria Ricardo Ramires Rui Versos
	ORL	Fausto Fernandes	Alexandre Mexedo Ângelo Fernandes Carlos Matos Francisco Moreira da Silva Rafaela Teles Rita Lopes Moura Rui Fonseca Sérgio Caselhos
	Orthotraumatology	Carlos Vilela	António Moreira Carlos Vilela Joel Reis Manuel Loureiro Tiago Basto Vitor Caetano

ULSAM	General Surgery	Alberto Midões	Fernando Barbosa Francisco Fazeres Jesus Rodriguez Ventura Maria Conceição Monteiro Marília Cardoso Teresa Almeida
	Urology	Eurico Maia	Eurico Maia José Manuel Leitão José Pedro Cadilhe
	Ophthalmology	Hugo Carvalho	Fernando Vale Hugo Carvalho
	ORL	Francisco Pereira Manuel Lima Rodrigues	Cecília Pereira; Francisco Pereira Isabel Alvarez Manuel Lima Rodrigues Vitoria Seoane
	Orthotraumatology	Miguel Leal	Carlos Alves Francisco Rodrigues Luís Silva Maria Francisca Roncero

Medicine II

Hospital	Specialty	Supervisor	Tutor
HB	Internal Medicine	Abel Rua Francisco Nunes Gonçalves	Carlos Capela
			Frederica Coimbra
			Ilídio Brandão
			Isabel Trindade
			Juan Garcia
			Manuela Rocha
			Margarida Fonseca
			Maria do Céu Rodrigues
			Maria João Regadas
			Maria João Silva
			Narciso Oliveira
			Sofia Caridade
			Olinda Caetano
	Infectious Diseases	Francisco Nunes Gonçalves	Alexandre Carvalho Teresa Pimentel
	Nephrology	Abel Rua	Carlos Soares
HB	Neurology	João Ramalho Fontes	Álvaro Machado
			Carla Ferreira
			Esmeralda Lourenço
			João Pereira
			Ricardo Maré
	Hemato-oncology	Rui Nabiço	Catarina Portela
			Herlander Marques
			Júlia Amorim
			Teresa Macedo
			Ana Paula Barbosa
	Dermatology	Celeste Brito	Anabela Correia
			António Marques
			Madalena Calheiros
			Ana Paula Vieira
			Cristiana Macedo
			José Carlos Fernandes
			Maria da Luz Duarte
			Teresa Pereira

CHAA-Guimarães	Internal Medicine, Infectious Diseases and Nephrology	Jorge Cotter	Cristina Ramalho
			Elisa Torres
			Estefânia Bustabad
			Filipe Gonçalves
			Glória Alves
			Helena Sarmento
			Magda Fernandes
			Sara Freitas
			Ângela Sousa
			Lurdes Rodrigues
	Neurology	Maria Lurdes Rodrigues	Camila Coutinho
			Camila Coutinho
			António Ferrete
	Hemato-oncology	Camila Coutinho	Olga Pereira
	Dermatology	António Ferrete	

Hospital Residences – 6th year

Hospital	Specialty	Supervisor	Tutor
HB	Internal Medicine	Abel Rua Francisco Nunes Gonçalves	Adolfo Silva
			Alexandre Carvalho
			Guilherme Castro Gomes
			Ilídio Brandão
			Juan Garcia
			Luísa Pinto
			Manuela Rocha
			Maria do Céu Rodrigues
			Maria João Regadas
			Narciso Oliveira
			Rosário Araújo
			Sofia Esperança
			Teresa Pimentel
	General Surgery	A. Mesquita Rodrigues	Carlos Gomes
			Conceição Antunes
			Dina Luís
			Fernanda Nogueira
			Fernando Manso
			Helena Marques
			Maia da Costa
			Mário Reis
			Pedro Leão
			Pedro Koch
			Sónia Vilaça
			Teresa Carneiro
	Psychiatry	Alberto Bessa-Peixoto	Jorge Gonçalves Maria Luísa Silva
	Gynaecology / Obstetrics	Pedro Cabrita Luísa Cardoso	Fernando Cardoso Ricardo
			Gabriel Borges
			Isabel Jardim
			Judite Barros
			Lucília Araújo
			Maria João Serra
			Teresa Coutinho
	Paediatrics	Almerinda Pereira	Albina Silva
			Ariana Afonso
			Carla Sá
			Helena Silva
			Isabel Cunha
			Manuela Alves
			Susana Carvalho
			Teresa Pontes
			Vânia Machado

	Internal Medicine	Jorge Cotter	Carlos Fernandes
			Clarisse Neves
			Cristina Cunha
			Elisa Torres
			Estefânia Bustabad
CHAA-Guimarães			Filipe Gonçalves
			Glória Alves
			Helena Sarmento
			José Miguel Sá
			Magda Fernandes
			Margarida Rocha
			Marta Gonçalves
			Nuna Vieira
			Pedro Cunha
			Sandra Barbosa
CHAA-Guimarães	General Surgery	Carlos Santos	Sara Freitas
			Carlos Alpoim
			João Reis
			Jorge Magalhães
			Lima Terroso
			Manuel Ferreira
			Rui Pinto
			Vítor Costa
	Psychiatry	Carlos Lima	Carlos Lima
			Feliciano Guimarães
			Rosa Rodrigues
			Sónia Ramos
CHAA-Guimarães	Gynaecology / Obstetrics	Moisés Moreira Pacheco	Moisés Moreira Pacheco
			Andreia Costa
	Paediatrics	Maria José Costeira	Armandina Neto
			Bernarda Sampaio
			Carla Laranjeira
			Catarina Magalhães
			Liliana Macedo
			Susana Soares

ULSAM	Internal Medicine	Diana Guerra	Ana Isabel Nascimento Ana Rita Cruz Andry Bal Carmélia Rodrigues Emília Silva José Vasconcelos Manuel Ferreira Maria Amélia Silva Paula Felgueiras Raquel Lopez
	General Surgery	Alberto Midões	Conceição Monteiro Fernando Barbosa Francisco Fanzeres Marília Cardoso
	Psychiatry	Aníbal Ribeiro da Fonte	Daniela Faria Paula Pina Teresa Martins
	Gynaecology/ Obstetrics	José António Maia	Ana Gama Avelina Almeida Domingos Ribeiro Elisabete Gonçalves Fátima Domingues Jorge Mesquita Paula Pinheiro Rita Abreu
	Paediatrics	José Rei Amorim	Cristiana Ribeiro Dalila Costa Diana Pinto Mariana Costa Marina Ribeiro Patrícia Carvalho Susana Figueiredo

As for the Residences in *Community Health and Family Medicine*, the **Supervisors and Tutors in the Health Centres** are:

Health Centres I

Public Health

Supervisor: Mário Freitas

Tutors: Jaime de Jesus Baptista (Matosinhos)
Ângela Alves (Valongo)
Fernando Dinis (Vale do Sousa Norte)
Manuel Plácido Pereira (Baixo Tâmega)
Amaro Domingues (Braga)
João Manuel Cruz (Braga)
Mário Freitas (Braga)
Elisa Teixeira (Espinho/Gaia)
Fátima Basto (Famalicão)
José Rola (Vila Nova de Gaia)
José Manuel Araújo (Gerês/Cabreira)
Manuel Castro (Gondomar)
Matos Oliveira (Terras de Basto)
Ana Maria Tato Aguiar (Santo Tirso/Trofa)
Rui Jorge Costa (Vila do Conde)

Health Centres II

Supervisor	Health Centre	Unit	Tutor
Luís Laranjeiro	ACES do Ave I – Terras de Basto	CS Fafe – USF Novo Cuidar	Anabela Von Doellinger Sameira Gonçalves
		CS Guimarães – USF S. Nicolau	Maria José Dinis Maria José Teixeira
		CS Guimarães – USF Vimaraneses	José Machado Marco Pina
		CS Guimarães – USF D. Afonso Henriques	Eugénio de Carvalho Maria José Lopes
	ACES do Ave II – Guimarães/Vizela		Alcina Pires
		CS Taipas – USF Ponte	Celina Peliz Nelson Pereira
			António Miguelote
		CS Taipas – USF Ronfe	Carina Antunes Vitor Ferreira
		CS Vizela – USF Novos Rumos	Samuel Pedreira
Cristiana Sousa	ACES do Ave III – Famalicão	CS Famalicão – Extensão de Saúde de Requião	Olenka Hahn
Helder Lanhas / Cristiana Sousa	ACES do Cávado I - Braga		Cristiana Sousa
		US Carandá – USF Gualtar	Márcia Millet Susana Oliveira
		US Maximinos – Extensão de Saúde de Ruães	Ana Gomes
		US Maximinos – USF Manuel Rocha Peixoto	João Carvalho Manuela Macedo Maria Augusta Pereira
			Adriana Vaz
		USF + Carandá	Maria Luísa Serra Maria Palmira Carneiro
			Artur Freitas
		USF MAxisaúde	José Luís Franqueira Miguel Nunes Rui Macedo
		UCSP Infias	Isabel Brito

Luís Laranjeiro	ACES do Cávado II – Gerês/Cabreira	USF VIDA + Vila Verde	Manuel Mariño
			Carla Côrrelo
		CS Amares	José Samarão
			Luísa Terroso
			Mário Rui Oliveira
		UCSP Póvoa de Lanhoso	Alfredo Couto
		CS Póvoa de Lanhoso – USF Terras de Lanhoso	Anabela Ferreira Francisco Lopes Manuela Soares
Cristiana Sousa	ACES do Cávado III – Barcelos/Esposende		Ana Maria Lemos
		CS Vila Verde – Extensão de Saúde de Prado	Cândida Carlos Filomena Reis Isabel Martins
			Francisco Melo
		USF Esposende	Maria Céu Pinto Margarida Pessanha
		UCSP Apúlia/Fão	Jonas Fonseca
			Cândida Macedo
		CS Barcelos - USF Santo António	Dulce Pereira Helena Albuquerque Helena Ferreira
Jaime Correia de Sousa	ACES do Grande Porto V – Póvoa do Varzim/Vila do Conde		Celina Pontes
		CS Barcelos – USF Alcaides Faria (Vila Seca)	Eliseu Martinez Elizabete Coutinho
		CS Vila do Conde - USF Santa Clara	Eusébio Patrícia Coelho

Health Centres III

Supervisor	Health Centre	Unit	Tutor
Luís Laranjeiro	ACES do Ave I – Terras de Basto		Isabel Barroso
		CS Cabeceiras de Basto	Manuel Sá Nogueira Serafim China Pereira
		CS Fafe – USF Fafe Sentinela	Conceição Almeida
		CS Fafe – USF Novo Cuidar	Anabela Von Doellinger Cristina Ramos Sameira Gonçalves
		CS Guimarães – USF S. Nicolau	Maria José Dinis Maria José Teixeira
		CS Guimarães – USF Vimaraneses	Marco Pina
	ACES do Ave II – Guimarães/Vizela	CS Guimarães – USF D. Afonso Henriques	Maria José Lopes
		CS Guimarães – USF Serzedelo	Manuel Castro Tânia Barreira
		CS Taipas – USF Ronfe	António Miguelote Carina Antunes Vitor Ferreira
		CS Vizela – USF Novos Rumos	Maria da Conceição Costa Samuel Pedreira
		US Carandá – USF Gualtar	Cláudia Melo Susana Oliveira
		US Maximinos – USF Manuel Rocha Peixoto	João Carvalho Maria Augusta Pereira
		USF S. Lourenço	Madalena Cerqueira
Helder Lanhas / Cristiana Sousa	ACES do Cávado I - Braga	USF MAxisaúde	Miguel Nunes Paula Marques Rui Macedo
		UCSP Infias	Aparício Braga
		USF + Carandá	Antónia Miguel Maria Palmira Carneiro

Luís Laranjeiro	ACES do Cávado II – Gerês/Cabreira	CS Amares	Carla Côrrelo Maria Luísa Terroso Mário Rui Oliveira Rui Eusébio
		UCSP Póvoa de Lanhoso	Alfredo Couto
		CS Póvoa de Lanhoso – USF	Anabela Ferreira
		Terras de Lanhoso	Francisco Lopes
		USF VIDA + Vila Verde	Manuel Mariño Teresa Andrade
		CS Vila Verde – USF Prado	Ana Côrina Afonso
			Ana Maria Lemos
			Cândida Carlos
			Filomena Reis Isabel Martins
Cristiana Sousa	ACES do Cávado III – Barcelos/Esposende	CS Barcelos – USF Santo António	Under designation
		USF Esposende	Francisco Melo
			Jones Fonseca Margarida Pessanha
		CS Barcelos – USF Alcaides Faria (Vila Seca)	Elizabete Coutinho
Jaime Correia de Sousa	ACES do Grande Porto V – Póvoa de Varzim/Vila do Conde	CS Vila do Conde – USF Santa Clara	Ana Almeida Patrícia Coelho Susana Cadilhe
	ULS de Matosinhos	CS Matosinhos – USF Oceanos	Susana Ribeiro
Alexandre Gouveia	ULS do Alto Minho	CS Arcos de Valvedez – USF Vale do Vez	Laura Santos
		CS Viana do Castelo – Unidade de Cuidados de Saúde Personalizados	Liliana Marto
		USF Gil Eanes	Maria da Luz Monteiro

