

ANNUAL REPORT 2012–2013

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1. INTRODUCTION & GENERAL OVERVIEW

The present report provides an overall view of the School of Health Sciences organisation and its main strategies and progresses in the academic year 2012-2013. The detailed data on the scientific and pedagogical activities are presented in individual attached reports.

As said on several occasions, the School of Health Sciences (ECS) is very proud of continuously succeeding in achieving our goals and mission. To be successful, we are aware that we must work collaboratively with all that build this project (students, researchers, faculty and staff) and pursue continuous improvement. In 2012-2013, we have graduated another cohort of medical students that we feel are ready to start practicing medicine in every setting and with the required standards – in this way, we achieve our goals and mission.

To accomplish the required international standards of quality in medical education, the ECS maintained its engagement in important educational and research initiatives. At the educational level, in collaboration with the National Board of Medical Examiners (NBME-USA), namely through participation in the International Foundations of Medicine (IFOM). Also, the ECS, a founding member of the European Board of Medical Assessors (EBMA), participated, together with other European medical schools, in an initiative to create a new tool for assessment of medical knowledge in Europe. The performance level of our students in both the IFOM and the Europe module was similar to that of the other participating schools, which supports the international standards of excellence reached by the ECS pedagogical programme.

The ongoing project "Simulation Center of Clinical Skills and Laboratory Scientific Skills" – initially funded by Fundação Calouste Gulbenkian, and presently supported by the ECS and self-generated funds - has allowed the establishment of innovative approaches for the acquisition and training of laboratory skills by medical students, which resulted in the positive improvement in the assessment of clinical skills and lab competences. More recently, we have started to expand the activities of these lab skills to residency programmes, with results that demonstrate its beneficial impact for participants and strengthen the prestige of our training programmes in other settings (e.g. medical post-graduation, where there is a clear deficit in Portugal).

We completed the second year of the new pathway, the "Four-year Graduate Entry programme" of the medical degree, approved by the University of Minho and by the National Accreditation of Higher Education Agency (A3ES) in April 2011. This programme is available for students holding a bachelor or "licenciatura" degree. So far the experience has provided positive results with students entering

the clinical years with similar success to their colleagues from the regular pathway. However, a more complete assessment will only be possible at the end of next year (the third complete year), when the pilot phase will be considered finished.

At the international level it is relevant to mention that the ECS has established several partnerships with other prestigious medical schools around the globe and has participated in several international collaborative efforts such as the Global Learning Health Opportunities (GHLO). As a result, there have been some exchanging programmes involving students and faculty members, with very positive feedback. In addition to this collaborative effort, the ECS has been asked to provide consultancy services to a new medical school in Brazil, which represents a new challenge for our project, but also an interesting revenue source. The increasing demand on the international activities led us to create an international office at the ECS.

A note also to highlight the creation of a spin-off company of the ECS dedicated to medical education services. This has largely resulted from our efforts to create an assessment software, MedQuizz, for written exams. This software was tested in 2011-2012, and applied to all written exams in 2012-2013. It proved to add value to the assessment process within the ECS, since students have greater control to monitor their progression during the exam, while teachers can rapidly identify questions with potential problems (to act in accordance before results are announced) and have an immediate detailed report on the quality of the exam and on student's performance. Of relevance, this software seems to be a very competitive tool for the market.

A medical school cannot exist without healthcare institutions. We have settled at Minho innovative partnerships with all healthcare institutions of the region (and even beyond the Minho region) that has created an excellent cooperative environment. Obviously, we continued the efforts to expand these relevant partnerships to assure the best setting for medical training and clinical care. Recently, we have expanded our nuclear clinical clerkships into new Hospitals (ULSAM) and have started new programmes with those with whom we have been affiliated from the beginning, namely at post-graduation levels and in the setting of clinical research with the creation of Clinical Academic Centers.

At a national policy level, the ECS keeps participating (and presently coordinating) the Board of Portuguese Medical Schools. In this forum, the ECS is actively supporting the proposal of a new exam for the assessment to Medical residencies (and there are very promising developments in this context), and also several other proposals such as those intended to adjust the student's assessment to Medical Schools, efforts in post–graduation activities and in the recognition of medical degrees.

Overall, these cooperative efforts have provided a coordinating action and position for the Medical Schools in Portugal.

At the post-graduation level, the ECS keeps investing in developing programmes for formal training towards Master and PhD degrees or for professional improvement. In 2012-2013, a significant number of students continued to choose the ECS for the Master Programme in Health Sciences, the PhD programme in Medicine and the PhD programme in Health Sciences, as well as for the International Post-Graduate programme of advanced courses. Of notice, our programmes were recognized by the Portuguese Foundation for Science and Technology (FCT) with specific support (scholarships and training funds) provided in the first national call for PhD programmes.

Regarding research activities, the creation of the *ICVS/3B's-PT Government Associate Laboratory* in March 2011, the first Associate Laboratory (AL) centred in the University of Minho, represented a major achievement for the ICVS and the 3B's. The *ICVS/3B's* AL 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.

Another important milestone was the formal establishment of the Clinical Academic Centre-Braga Association (CCA-B), in January 2012, in partnership with the *Hospital de Braga*. The CCA-B infrastructures are located at both the Hospital and the ICVS and it has specific staff devoted to the development of clinical research, including clinical trials.

It is also noteworthy the sustained increase of researchers integrated in the ICVS (including PhDs), totalizing 281 researchers in 2012. This was accompanied by an increase in scientific productivity within multidisciplinary Research Domains, reflected in the number of publications as well as in their average Impact Factor (IF). In this context, a significant amount of external/competitive funding was captured, not only from FCT, but also from the European FP7 and other national and international institutions/industries, involving a growing network of national and international scientific collaborations.

Due to continuous growth of the ECS, the number of academic and non-academic members has also increased. The incorporation of 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 quality 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.

From the financial perspective, 2012-2013 continued to be a very difficult period for the University as a whole, and as a consequence for the Medical School. To face such demanding times, the ECS and the ICVS have significantly expanded their sources of competitive funding in parallel with a strict financial management. This has mitigated the detrimental impact of reduced budgets and assured the conditions for the continuous development and consolidation of the ECS/ICVS project.

Last, but not least, in August 2013, the ECS was granted the ASPIRE Certificate of Excellence by the Association of Medical Education in Europe (AMEE) in "Students engagement".

2. OBJECTIVES AND STRATEGIES IN 2012-2013

The major goal established for 2012–2013 was to balance the consolidation of the ECS project with some new initiatives. Recently, we launched the new pathway, the "Four-year Graduate Entry programme" for the Medical Degree at Minho, specifically designed for students holding a Bachelor/"Licenciatura" degree, and the new challenges and responsibilities of ICVS as an Associate Laboratory (AL) in a partnership with the 3B's Research Group.

To achieve these aims, we focused on the:

- consolidation of the new pathway, the "Four-year Graduate Entry programme", using our previous experience of the 6-year programme in combination with new pedagogic methods and selection tools. This pathway is shorter in duration (4 years), but involves a great effort from students and faculty, including complementary nocturnal pedagogic activities;
- continuous improvement of the pedagogic and scientific quality of the ECS project;
- adjustment of the undergraduate curriculum, based on the experience of previous editions;
- strengthening of national and international collaborations for the graduate and post-graduate (Master and PhD) programmes;
- application to the FCT call for funding Doctoral Programmes;

- recruitment of new staff members (academic, non-academic and research) that bring extra-value to the project and promotion of staff development;
- strengthening and investment in the launching of ICVS/3B's AL, exploring new perspectives for the expansion of our research activities;
- development of new collaborations with health-care partners;
- development of clinical research through the CCA-B, including clinical trials in collaboration with international industrial partners;
- keeping of a continuous dialogue with the national health system (Ministry, Regional and Sub-Regional Administration, Hospitals, Health Centres) partners;
- support of our internal and external efforts to promote the best practices in medical education and research;
- resuming the process of the "animal facility" since January 2013 although the construction has not yet started, it is planned to start by the end of the current year;
- increasing the visibility and projection of the ECS/ICVS project at the national and international levels.

3. ACTIVITIES AND ACHIEVEMENTS IN 2012-2013

Medical Degree Course

Six-year Integrated Master Programme in Medicine

A separate report (*Snapshot Medical Degree-Assessment of the Academic Year 2012-2013*), prepared by the Medical Education Unit, detailing the pedagogical activities and results undertaken in the academic year 2012-2013 is presented as Supplementary Report. A brief mention to important highlights follows.

Even without the results from September's "Época Especial" of examinations, the academic performances available show no striking variations from the previous year. The success rates in the curricular units of the first 3 years were always above 73%. These results are positive, in particular

when considering that in the University of Minho, the overall success rate of courses in the first 3 years is of approximately 60% (precise figures will be available in January 2014). As in the past, the highest failure rates are observed in the first year of the Medical Degree. The minimum approval rates in courses in the final 4 years is 86%, proving that, in terms of academic performance, students who successfully perform in the first years continue to thrive in the remaining of the curriculum.

In the year 2012-2013, 123 new students were admitted via the national admission process (119 under the general regime and 4 under the special regime for students from the Azores and Madeira Autonomous Regions). Additionally, 3 new students were admitted through special regimes for students from Portuguese speaking countries (n=1), athletes (n=1) and diplomat relatives (n=1). The total number of new students was therefore 126. For the national admissions process, the lowest entrance grade for the new students was 185.5 out of 200. 70% of the students admitted under the general admission regime chose ECS as their first option.

The gender balance of the new entrants in 2012-2013 was 71% female and 29% male students. Regarding the regional origin of students, 50% come from the District of Braga, 21% from the District of Porto and 29 % from other Districts of the Country.

Four-year Graduate Entry Programme in Medicine

In 2012-2013, we continued with the new pathway "Four-year Graduate Entry Programme" for graduate students. In this programme, the selection process is within the full control and responsibility of the ECS. Applicant selection was a 3-step process: (1) compliance with administrative criteria defined by the admissions process regulations, which included holding any previous degree with a final mark equal or above 14/20 points; (2) written examination of knowledge, which consisted of 100 multiple choice questions on biology, mathematics, chemistry and physics; (3) Multiple Mini-interviews (MMIs).

There were 229 applicants to the graduate entry process (13 applicants/place). The top-scoring 30 students were admitted to the MMIs. From these 18 students were admitted to the Four-year Graduate Entry Programme in 2012-2013.

Global number of undergraduate students in the medical programme

The global number of undergraduate students registered in the medical programme in the current academic year (2012-2013) was of 129 in the first year, 128 in the second year, 165 in the third year & first year Graduate Entry, 132 in the fourth year & second year Graduate Entry, 107 in the fifth

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year and 80 in the sixth year. The total number of students amounts to 741 (which represents an

increment of 55 students in comparison to the last report).

Certification

Throughout the entire existence of the ECS project, we have been aiming to assure the best quality

of the pedagogic environment and we have applied for its international certification. In recognition

of our efforts we have been recently granted the ASPIRE Certificate of Excellence by the Association

of Medical Education in Europe (AMEE) in the area of "Students Engagement".

The ASPIRE programme distinguishes excellence in medical programmes, in terms of its mission and

its learning programme. The recognition of the excellence in the engagement of students at the ECS

is a strong evidence of our student-centered learning approach.

Medical Students Associations: NEMUM and Alumni Medicina

NEMUM Report

NEMUM (Núcleo de Estudantes de Medicina da Universidade do Minho) is the official representative

of medical students at the University of Minho. It is a non-profitable organization, composed of

students working for students. This year, NEMUM had its tenth anniversary, which was duly

celebrated, in a huge gala, with several guests and several different performances and sharing of

wishes and ideas.

Aside from its commitment to represent the students, NEMUM is also responsible for the

organization of several activities of many kinds, from scientific congresses to informal discussions,

community health awareness actions, cultural and recreation activities, and scientific and clinical

exchanges among countries all over the world.

Therefore, NEMUM highlights the way it relates with the ECS/ICVS, based on trust and total

availability and opinion and ideas sharing from both sides. This is only possible due to the openness

of the ECS and ICVS to their students and their representatives, and the true relevance of the

organized activities.

In 2013, NEMUM kept on doing its great job on organizing desirable actions for their students and challenging them with new workshops and trainings on several important personal, technical and medical skills.

For example, NEMUM organized the 4th Science and Medicine Conference, dedicated to Oncology; the 9th Professor Joaquim Pinto Machado Cultural Week; several clinical competence workshops; monthly debates on medical subjects opened to general public; the 6th Minho Medical Meeting, dedicated to Minimally Invasive Techniques; 2nd Laboratory of Objective Learning, in which students were taught several advanced laboratory competences by ICVS researchers; many health screenings to the population; all the logistics necessary for the exchange of more than forty incoming and outgoing students for clinical and scientific research; the Teddy Bear Hospital; the 3rd Vital Run, a running competition at the centre of Braga; the Happy Village, a project to teach elder and isolated populations to prevent incidents and diseases.

NEMUM is constantly contacting and cooperating with other entities, namely the University of Minho Students' Association, the University of Minho Medical Alumni Association, the Portuguese Medical Students International Committee, the Portuguese Medical Association and the International Federation of Medical Students' Associations, in order to promote and improve the developed activities.

It is NEMUM's intention to continue its work and, most of all, to consolidate and to improve the manner in which it organizes itself and prioritizes the activities that are more important and relevant for the students, to complement medical students education, in social, technical, personal, cultural and scientific aspects.

Also, in 2013, NEMUM invested on a new website (www.nemum.pt), since the old one couldn't give response to students needs and it wasn't functional.

Summing up, this association is obviously important to the ECS students, and also to ECS itself, boosting the interest and curiosity of the entire community for science and learning.

NEMUM's Executive Board: Raquel Rocha Afonso (President); Rui Abrunhosa (External Vice-President); Catarina Pereira (Internal Vice-President); Gabriela Fernandes (Treasurer); Rafael de Vasconcelos (General Secretary).

The NEMUM President, Raquel Rocha Afonso

Alumni Medicina Report

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

2013 has been a turning point in *Alumni Medicina's* growth since it was able to go beyond the borders of ECS and its students and contact with students and alumni from other medical schools. A great effort was made in order to increase the variety of informative sessions and post-graduate courses offered reaching more people and trying to create partnerships with sponsoring entities. Therefore, we were able to organize the informative session "Medical internship: what does not come in books" as well as the following courses: "Practical course of EKG interpretation" (May 4th), "Basic theoretical-practical course of contraception" (May 25th), "Hormone therapy in specific conditions" (June 8th), "Course of Thoracic Imagiology" (June 21th). More than half of the participants in these initiatives studied in our medical school. Feedback given by the participants has been exceptional, raising the will to continue in further editions. Several other activities in the areas of child psychiatry, cardiology and urology are planned for the 2nd semester of 2013. Collaboration with ECS was maintained, helping organize the 1st "iPsiquiatry" (March 21th -23th and 1st "iNeurologia" (February 21th -23th), introductory courses targeted to 1st year interns.

2013 also marked the beginning of a closer cooperation between *Alumni* and current students through their students association NEMUM (*Núcleo de Estudantes de Medicina da Universidade do Minho*). This year, several "Medical Talks" were organized once a month, approaching several medical subjects such as "How to deal with the parents of sick children", "The business doctor" and "Excellence, perfection or giftedness?". We were also able to economically support NEMUM's 10th anniversary.

Despite the economic crisis, *Alumni Medicina* was still able to support all students with financial difficulties that searched for help. The total amount invested in our social emergency programme was similar to that in the previous year.

At the moment, efforts in fund raising are about to be made, regarding further educational support and scientific programmes at ECS.

The Alumni Medicina President, Pedro Morgado

Post-graduation

The ECS 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 2012, enrolled for the 2012-2013 academic year, 14, 7, and 22 students, respectively for the Master Programme in Health Sciences and for the PhD Programmes in Medicine and in Health Sciences. Two aspects deserve consideration here with respect to student enrolment:

- that four medical doctors originating from Mozambique within an agreement between the University of Minho and the Mozambican Health Authorities enrolled in the Master programme;
- that four MD students formally applied for the MD/PhD programme (a programme in which MD students interrupt their medical training to do a PhD thesis, returning afterwards to complete the medical training), which represents a record in the number of MD students enrolled in the programme.

Until the end of 2013, a total of 7 students will defend their PhD theses and 15 their Master theses.

The ECS responded to the challenge of the Portuguese Science Foundation (FCT) in a national competitive call for PhD programmes. With this call, FCT intended to select top quality training programmes by providing directly to the institutions PhD scholarships and complementary funds for training activities. Within these programmes the responsibility of selecting the students is given to the institutions, which is contrary to the common practice of a national call for individual PhD scholarships. The ECS succeeded with the MD/PhD programme (in collaboration with Columbia and Thomas Jefferson Universities in the USA), for which a set or 20 PhD scholarships were granted for the next 4 editions (academic years) and with the interinstitutional PhD programme in Aging and Degeneration of Complex Biological Systems, initially launched with the support of the *Fundação Calouste Gulbenkian*, with the partnership of Faculty of Medicine (*Universidade de Coimbra*) and Faculty of Medical Sciences (*Universidade Nova de Lisboa*). For this, 36 PhD scholarships were given for the next 4 editions (academic years).

At the same time, the ECS continued to promote courses in cutting–edge subjects in medicine and in biological sciences. From January to September 2013, 23 courses counted with 437 participants, of which 70% were medical doctors. It is of notice the number of participants originating from international institutions (11%) and from national institutions outside the University of Minho (65%).

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. In 2013, we highlight that 4 students formally enrolled in the MD/PhD programme, which is a record, and totalizes 8 students presently developing their PhD theses, adding to the two students that successfully defended in 2010 and to one other student about to defend his thesis still in 2013.

Research

As previously mentioned, the ECS research activities are developed in the context of the ICVS, as well as in articulation with the Clinical Academic Centre – Braga Association (CCAB).

The ICVS is a research structure: i) fully incorporated within the ECS; ii) integrated in the national system of science since 2003, ranked with "Excellent", the maximum grade provided by the FCT's international evaluation panels (2003 and 2008); iii) member of the PT Government ICVS/3B's Associate Laboratory since 2011; and iv) associated member of the CCAB, in a partnership with the Hospital of Braga since 2012.

The research activities in the ICVS are organized into three Research Domains: i) Microbiology and Infection; ii) Surgical Sciences and; iii) Neurosciences - which are supported by laboratorial core units.

The distinctive aspects of the ICVS as a research unit are: i) the connection to the training of physicians and to health care institutions, reflected in the clinical scope of its research; ii) the interaction with research groups in the areas of technology, particularly with the 3B's Group; iii) the quality/differentiation of human resources, focused on a small number of topics with high critical mass; iv) an integrated, flexible and collegial organization, aiming at high-quality scientific outputs.

A detailed description of the 2012 ICVS activities/achievements is reported in the ICVS Annual Report 2012 (Supplementary Reports). In this section of the ECS report, we summarise below the main achievements of 2012, as well as the most relevant progresses registered during the period January-September 2013.

ICVS/3B's-PT Government Associate Laboratory

The ICVS/3B's-PT Government Associate Laboratory, launched in 2011, continued focusing 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. The expansion of the ICVS/3B's activities resulted in an increasing recognition of the AL, namely by international funding agencies that granted the AL with important projects. The activities of the ICVS/3B's AL resulted in the publication of 227 articles in ISI journals during 2012 - 45% in journals of the first quartile (Q) and 90% in journals of Q1 + Q2.

Clinical Academic Centre – Braga Association (CCAB)

In 2012 the ICVS has developed clinical research through the CCAB, which formalization in January represented a key achievement, including clinical trials in collaboration with international industrial partners. The CCAB combines a team of researchers, physicians and other health professionals, to which is associated a team of project managers, nurses and clinical trials coordinators/monitors. This strategy allowed the CCAB to achieve the following goals by the end of 2012: 5 clinical research projects (funded by the European Commission - FP7 and by the FCT); 23 clinical trials (ongoing or under analyses); 6 observational studies (ongoing or under analyses); 2 validation studies of medical devices. It should be highlighted that the dynamics of the CCAB productivity increased during 2013.

Infrastructural funding and construction of the "animal facility building

Although the construction of the animal facility has not yet started, the process was resumed in January 2013 and the construction of the animal facility is planned to start by the end of the current year, with the availability of the ECS to participate in a strategy of match funding together with the Rectory of the UMinho, along with negotiations with the CCDR-N/QREN for funding in programmes to be launched. The total amount required is 2 million euros for the infrastructure plus 1 million euros for scientific equipment.

Endoscopic Surgery Teaching and Research Laboratory

During 2012-2013, 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, as well as through the reinforcement of scientific equipment and laboratories. An important achievement during 2013 was the installation of the new "Endoscopic Surgery Teaching and Research Laboratory", which became the largest space in the Iberian Peninsula for training and research in minimally invasive surgery, and

resulted from a consortium between the ICVS with international companies of medical equipment, the Surgiris and the Karl Storz, GmbH. These companies equipped the ICVS "Endoscopic Surgery Teaching and Research Laboratory" with 10 surgical tables of training in high-definition and 3D, including an intelligent operating room: OR1™, corresponding to an investment of 2 million euros.

Scientific outputs

The ICVS pursued the strategy of implementing a sustained increase in scientific productivity within multidisciplinary Research Domains, reflected in a very important increase in the number of publications, as well as their average Impact Factor (IF). During 2012, 135 papers were published in international journals with an average IF of 4.5 (including articles with IF between 3 and 5 = 44 papers; IF between 5 and 10 = 15 papers; IF between 10 and 20 = 8 papers; IF>20 = 1 paper); and eight additional articles in journals of Medical Education and Public Health. Additionally, the work developed at the ICVS in 2012 resulted in the conclusion of ten PhD theses, including from 2 MDs. Moreover, from January 2013 until the end of the year, seven more PhD theses (four in health sciences and three in medicine) and 10 Master theses are scheduled to be concluded.

Technological outputs and Services

The ICVS also fosters collaborations between its researchers, at the forefront of Biomedical advances, and partners from Biomedical Industries. In 2012, industry-sponsored R&D was performed in areas of mutual interest between sponsors and the ICVS research domains, involving the following companies: TECNIMEDE; F. BIAL; NOVARTIS FARMA; New Textiles; BEBÉ VIDA; and BOEHRINGER.

In 2012, the ICVS continued the Molecular Diagnostics Service (SDM), by providing the genetic diagnostics of intellectual disability related disorders, with a CGH microarrays service for the screening of microdeletions and duplications of chromosome regions.

The ICVS was associated with the launching in 2012 of the Spin-off "Bn´ML- Behavioral & Molecular Lab". The Bn´ML is based on previous specialization and extensive research activity applied to the evaluation of behavioural and neuromolecular effects of therapeutic compounds, in animal models of psychiatric and neurological diseases. The Bn´ML provides customized services for pre-clinical assessment of the therapeutic potential of new compounds, using pre-validated and reliable animal models of disease.

Awards

Bn'ML won the 1st Prize of the competition of Business Ideas – SpinUM in December, 2011 and the first prize award of the "Young Entrepeneurs" National Association (ANJE) in 2013. The international recognition of the ICVS research activities is also reflected by the granting of 9 International awards, including the Excellence in Paediatrics Award, granted by the Excellence In Paediatrics Institute (EiP).

ICVS Interaction with the Medical Degree Course

The ICVS pursued supporting the ECS's PhD and Master Programmes, as well as the MD/PhD programme with an increase in the number of applicants and preparatory laboratory rotations.

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 2012-2013, in the context of: (i) 46 projects in the Curricular Area "Option Projects" and; (ii) 35 rotations in the MD/PhD programme.

ICVS Staff

In 2012, it is also to highlight a sustained integration of a significant number of researchers in ICVS, including PhDs, totalizing 281 researchers [66 PhD researchers (37 ECS faculty, 4 Assistant Researchers, 1 Marie Curie and 24 Post-docs) and 197 post-graduation students (114 PhD students, 36 Master students and 47 Research Assistants)], supported by 18 members of the non-academic staff (5 in administration and 13 in the laboratories, with their salaries supported by the School).

4. 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. This strategy can be summarized as follows: a multicentered approach based on interinstitutional partnerships within the legal framework concerning the articulation between the Medical Schools and the Health Services (a legal document, *Portaria 36/2002*). 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 obtained with this strategy have been extremely positive (and set out as an example for other medical institutions in Portugal). Meanwhile, the cooperation with the *Hospital de Braga*, the *Centro Hospitalar do Alto Ave* and *Unidade Local de Saúde do Alto Minho* evolved into new dimensions, namely through a stronger interplay at: i) pedagogical activities, through an increased involvement of health professionals in the ECS; ii) research activities, as evidenced by the number of attending physicians engaged in academic and research activities and by the creation of Clinical Academic Centres; and iii) assistance care level, by the number of ECS faculty members with dual affiliations with these health care institutions. 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 continues to be well appreciated.

University–Health Services Articulation

Under the scope of the protocols with the affiliated Hospitals, a School - Hospital 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 multicentered approach adopted for the clinical training of 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 Committees are appointed to decide on matters of relevance for the coordination of activities between the ECS and the Health Services. The established Committees have adopted a Protocol that proved to be very efficient and became a central piece for the development of an efficient interinstitutional 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 participant institutions, and the term of office of the clinical supervisors and of the clinical tutors.

The Clinical Coordinating Groups, Supervisors, Tutors at Affiliated Hospitals and Health Centres are listed in Appendix III.

5. ORGANISATION AND MANAGEMENT

At present the governing bodies of the ECS are:

- The School's Council & Directive Board
- The Scientific Council
- The Pedagogical Council (Medical Course Committee)
- The Scientific Area, Curricular Units and Module Coordinators
- Coordination of Research and Postgraduate Programmes
- The Advisory Council of the School

The competences and the present composition of these bodies are presented in Appendix I.

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 are known by all 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. 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 assure 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 students and peer assessment, permanent monitoring and quality assurance; (v) the role of the Medical Education Unit, in terms of support, coordination and monitoring of the educational objectives; (vi) the role of research, as a crucial element for a research–based learning process, and (vii) the engagement in research activities

(including submission of the research projects to the strategic guidelines and priority areas defined for the ICVS).

The Medical Education Unit has established annual faculty development programmes to target newly admitted staff and continued training for the existing staff. The programme is based on workshops, supplemented with small team activities and informal discussions that create opportunities for addressing individual issues.

In the academic year 2012-2013, the School has a faculty of 86 members (40.65 Full Time Equivalent) of which 44 are PhDs. The faculty includes: 5 Full Professors, 7 Associate Professors, 7 Assistant Professors and 67 invited teachers (2 invited Full Professor, 4 invited Associate Professors, 24 Assistant Professors and 37 Invited Teaching Assistants). Additionally, the ECS counts with 8 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, academic/hospital position and scientific area (for a matter of precision, the academic position 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 600 clinicians, are listed in Appendix III.

In terms of the faculty profile, it is important to highlight that 70% (57 out of 82) of the regular staff members are MDs.

Non-academic staff

Appendix II presents the non-academic staff members, in a total of 36, and their qualifications, position and allocation. The academic profile of the staff is above the average situation in the Portuguese higher education system (64% 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 and an important challenge for the future.

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 to improve their qualifications.

7. FINANCIAL RESOURCES

School Funding

Since 2000, an annual lump sum has been allocated to the ECS to cover salaries, current expenses and equipment. As mentioned before, all the possible savings were made in order to shift as many resources as possible to pedagogical and research activities. The budget allocated to the School in 2013 was of 4.71 million Euros.

ICVS Funding

We have continued the strategy of reinforcing the diversification of the ICVS funding sources.

From the FCT basal funding, the ICVS was granted with only 0.315 million euros over two years (2013 and 2014) through a RD&T Strategic Project contracted to the *Laboratório Associado ICVS/3B's*. The ability to obtain external competitive funding for research projects has increased: the budgets of the ongoing research projects, with an average duration of three years, amounted to 9.8 million euros (FCT projects – 5.4 million; FP7 projects – 2.1 million; other national and international projects – 2.3 million).

Finally, another main achievement of 2013 was the granting of a QREN/ON.2 "Integrated Programme", in the context of the ICVS/3B's AL. This application was submitted in 2009 to QREN/ON.2 for the recruitment of Assistant Researchers, Post-Docs and Lab Technicians and has been finally approved, with start date from 01-01-2013 and end date 30-06-2015, involving a total amount of 2.47 million euros for the ICVS team. This amount is co-funded by FEDER (85%) and FCT (7.5%) and the remaining is covered by the UMinho (7.5%).

8. PLANS FOR 2014

The project of the School has been well established and progressing as planned. The major goal for the near future is to keep a permanent commitment to the benchmark of quality at the highest international level. Thus, we pursue continuous improvement, seeking to assure the best conditions to reinforce the ECS dynamism.

At the educational level we will reinforce our commitment to:

the "Four-year Graduate Entry Programme" in Medicine. This new programme starts its third year in 2013-2014, at the end of which a complete assessment of the pilot phase will take place.

There are also plans to study the possibility to expand this to an International Programme;

- adjust and implement new pedagogic methods, namely "team-based learning" in specific area of the study plans;
- proceed our commitment in the best practices of medical assessment, with the collaborative effort with the National Board of Medical Examiners (NBME-USA) and the European Board of Medical Assessors (EBMA). There is a commitment to adjust the existing, and to explore new, assessment tools that better reflect the acquisition of medical skills; these actions will be pursued in parallel with the efforts in medical education research in this topic. This will be complemented with an effort to assure the quality, and subsequent certification, of the assessment process;
- create a special team, that will assure the longitudinal acquisition, training and assessment of clinical and laboratory skills, using well-established, but also innovative, methods and tools;
- engage, even further, in the structure and organization of the pilot medical residency training programme and clinical fellowships programmes;
- establish specific actions for faculty development;
- expand the internationalization effort of the ECS project, namely through the establishment of partnerships with other prestigious medical schools around the globe, participating in several international collaborative efforts such as the Global Learning Health Opportunities (GHLO).

The construction and consolidation of the ECS pedagogical project will continue in parallel with the capacity of ICVS to perform internationally cutting-edge research, now as an Associate Laboratory in a partnership with the 3B's Research Group, which opens new challenges and perspectives for the expansion of our research activities.

We will also continue developing new collaborations with our health-care partners, particularly through Clinical Academic Centres, and also fostering new collaborations with other research partners and several industrial partners.

In addition, the major developments for 2013-2014 regarding research are:

- the finalization of the building of the ECS/ICVS animal facility;
- the formalization of a satellite research nucleus on Public Health, in the context of the ICVS structure;
- the fostering of research on Medical Education, aiming at the future establishment of an autonomous research unit (ECS research sub-unit).

These actions will, hopefully, impact on the recruitment of the best students/ researchers/ academics and also on more sustainable and diversified funding sources.

9. ECS'S ADDRESS TO THE RECOMMENDATIONS OF THE ADVISORY COUNCIL OF THE SCHOOL

The former Advisory body of the School (nominated "External Advisory Committee") ceased functions in July 2009. The present Advisory Council of the School (ACS) was nominated in 2011 and the first meeting took place at ECS on 9 and 10 December 2011. The full report produced by the ACS is presented in Appendix IV. The School of Health Sciences, from its beginning, has taken seriously into consideration the recommendations from the External Advisory Committee and has addressed them explicitly in every annual report, explaining the actions and measures taken in regard to each of them. Following this tradition, which the School praises as one of the essential tools for quality assurance, the recommendations made in the last report from the Advisory Council of the School are hereby addressed point by point.

(i) "The ACS is concerned that University Regulations permit students who fail the 1st year to enter the 2nd year; this rule does not favor the efficiency of the study programme nor is it in the best interests of the students and should be reviewed."

The ECS agrees entirely with the recommendation of the ACS; yet, the ability to change the rule that allows students who fail in critical curricular units of the 1st year to enter the 2nd year is beyond our mandate. However, we would like to highlight that we have forward your recommendation to the Rector's office. Importantly, we would like to highlight that we have established, in total agreement with the students, a regimen of precedencies in the ECS, that impedes the students to move to new curricular units whenever failing in previous units that are critical for their leaning – this, that might be viewed as quite normal, is not typical in the Portuguese context.

(ii) "The ACS suggests incorporating areas of BioMedical Technology and Nanomedicine into the curriculum, taking advantage of the collaborations with the 3B's Research Group of the "Laboratory Associado."

Following your suggestion, we have incorporated some topics related to tissue engineering and nanomedicine in distinct moments of the curriculum. Yet, so far we did not implement it in structured curricular units, as we believe that it would be a better option to allow the students' revealing particular interest in the topic to do them as electives.

(iii) "The Medical Education Unit (MEU) is performing an excellent job in providing evaluation and policyrelated data for the Medical School, but it is advisable that it publishes more in relevant peer-reviewed journals."

A strong effort was made by the MEU team to increase their publications in peer-reviewed journals. In addition, we have recently shifted the strategic position of the MEU research towards an independent research sub-unit of the ECS.

(iv) "The ACS suggests that the procedures for the combined MD/PhD could be made more flexible in order to recruit more students."

We are happy to announce that our MD/PhD programme was recently recognized by the Portuguese Funding Agency for Science and Technology (FCT) as one of the very few programmes to be funded. Therefore, we had to comply to the format of the call, but still were able to recruit more students to it (4 students in 2013). Interestingly, the number of students involved in the summer research laboratory rotations (a pre-requisite for formally apply to the MD/PhD programme) has increased significantly, which furthers supports the view that the interest for the programme is raising. Additionally, we would like to mention that we have been involved in the recently-created forum of the European MD/PhD programmes.

(v) "The ACS recommends that the University develops a programme of sabbaticals for the scientists involved in this programme so that they can take research leave every 5 - years."

Following the recommendation of the ACS, the ECS initiated the programme of sabbaticals and in 2012/2013 2 colleagues have already benefited from that programme.

(vi) "The ACS advises the School to explore the possibilities of getting financial compensation for the delivery of services to Health Institutions (e.g. Health Services research) and for the participation in clinical trials and the consultation with industry."

This has been a major achievement of the ECS in 2012-2013: we have not only created the Clinical Academic Center – Braga Association (in collaboration with the Hospital of Braga), where more than 20 clinical trials are currently ongoing, but we have also started some medical education consultancy services. More recently, we have created a spin-off in medical education services. All these moves proved to be interesting sources of revenue to the ECS.

(vii) "The ACS strongly suggests that the School establishes a strategy to enhance the visibility of the Medical Curriculum and the ICVS both nationally and internationally."

We have been trying to enhance the visibility of the Medical Curriculum and of the ICVS. In what regards the Medical Curriculum, besides the regular participation in some of the most well-known medical education congresses, we have developed an effort to create a Portuguese medical education network, as well as to support the Portuguese-Spanish medical education workshops. We have also (successfully) applied for international certification (ASPIRE) as an effort to increase international visibility of the ECS project. Members of the ECS are representatives in some boards of the National Board of Medical Assessors (NBME), USA, and we are founding members of the European Board of Medical Assessment (EBMA). Besides these actions, we have several collaborative efforts with Brazilian and Italian medical schools that involve implementation of the Minho Medical curriculum and exchange programmes to students and faculty members.

Regarding the ICVS, we have pursued out efforts to increase its visibility. The results in terms of scientific production represent one side of this effort. At the national level, members of the ICVS seat now in the most significant boards related to research policy. We have also developed several initiatives with national and international organizations in the area of awareness of science. There were also several signs of recognition of the quality of the work produced at ICVS, and members of the institute play now important roles in research societies and in editorial boards of international journals. Finally, a note to highlight the relevant developments in the post-graduation area, where the ECS/ICVS international programme has consolidated its offer (generally recognized to meet the best international standards) and has also launched novel initiatives in the area of residency training programmes.

(viii) "The ACS recommends that the School appoints a Fund-Raising Committee with the objective of promoting and coordinating fund raising activities in general."

We have asked two guests to participate in the next exercise of the assessment of the ECS by the ACS. These guests are well-known and successful entrepreneurs and they may guide us in the process of fund-raising, given their profound knowledge of the Portuguese economic milieu. Besides this assistance, we pursued our efforts in obtaining support by philanthropists (with important assets also in this area).

(ix) "The continued lack of an animal house is a serious handicap to research activities that should be resolved by the competent authorities with urgency."

Despite of the total lack of support by the competent authorities, and as a result of our efforts in fund-raising, the ECS was able to collect the funds for the kick-off of the animal house. The works were scheduled to start in March, but were postponed by the Rector's office to October (hopefully during the next visit of the ACS, the works may already have started).

(x) "The University/School should consider enlarging this Council with individuals linked to relevant enterprises/business and having important positions in public life."

As said in response to item viii) we have asked two new guests (both well-known and successful entrepreneurs) to join the ACS meeting.

10. FINAL REMARKS

In summary, it is our belief that the core strategies and goals of the ECS for 2012-2013 were successfully accomplished. The most prominent strengths continue to be: i) the quality of the training of medical students and the reported high standards of their performance in healthcare institutions as physicians; ii) the quality of the research activities ongoing at ICVS, now as an Associate Laboratory; and iii) the innovative post–graduation activities. Such strong points have translated into a very favourable teaching and research environment at the ECS. The systematic monitoring of the project by a strong and informed leadership and by continuous external evaluation continues to be the premises needed to keep the ECS on the right track.

The School's achievements were acknowledged by the Advisory Council of the School (ACS), which in its 2011 report (Appendix IV) states: "the School can be proud of having made important achievements since its inception" adding that, in the domain of education, the ACS was provided "with the evidence to assert our conviction that the School is forming graduates of high quality in Medicine". Also, the ACS "notes the remarkable achievement of the Research Institute that is integrated in the School (ICVS)".

Certainly the success of the ECS project has only been possible by combining the appropriate mixture of competence, enthusiasm, commitment and team spirit. To all that have contributed to the ECS, we express our gratitude and assure that we will pursue, with the same enthusiasm, our mission.



ANNUAL REPORT 2012–2013

APPENDIXES



APPENDIX I ORGANISATION AND MANAGEMENT

ORGANISATION AND MANAGEMENT

1. ECS GOVERNING BODIES - COMPETENCES

1.1. The School's Council & Directive Board

The School's Council is the collegial representative body of the School being responsible for the School's management and general coordination. The School's Council integrates the President of the School, who presides, and meets quarterly.

The School has also set up a **Directive Board** that meets on a weekly basis, in order to oversee the day-to-day management of the School.

1.2. The Scientific Council

The scopes of the Scientific Council include 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.

1.3. The Pedagogical Council (Medical Course Committee)

The main competences of the Pedagogical 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 Pedagogical Councils, with the specific adaptations required by the integrated curricular organisation and also by the structural organization into phases.

1.4. The Scientific Areas, Curricular Units and Module Coordinators

The "Scientific Area" was elected as an ECS organizational sub-unit, within the University of Minho. 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 promoting 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 within the ECS are:

- Biomedical Sciences
- Pathology
- Community Health
- Clinics

1.5. Research and Postgraduate Programmes

The 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 Coordination of the postgraduate programmes on Health Sciences oversees the whole postgraduate activities within the ECS.

The present Director of ICVS and the Coordinators of Research and of Postgraduate Programmes are listed in point 2. The coordinators of the different Post–Graduation courses are listed in Post–Graduation Report 2012-2013 (Supplementary Reports).

1.6. The Advisory Council of the School

The present Advisory Council of the School (ACS) was nominated in 2011 and is expected to meet every two years.

2. ECS GOVERNING BODIES - PRESENT COMPOSITION

2.1. The School's Council & Directive Board

School's Council

Cecília Leão (President)

Jorge Pedrosa

Jaime Sousa

Joana Palha

Nuno Sousa

Paula Ludovico

Fernando Rodrigues

Manuel João Costa

António Salgado

Margarida Saraiva

José Carlos Henriques

Representatives of students of Medical Degree Course (2)

Representatives of students enrolled in the programs of the 2nd and 3rd cycles (1)

Directive Board

Cecília Leão (President)

Nuno Sousa (Vice-President, Director of the Medical Degree)

Jorge Pedrosa (Vice-President, Director of ICVS/3B's)

2.2. 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

2.3. Pedagogic Council

Academic Staff

Nuno Sousa (President)

João Cerqueira

Paula Ludovico

Jaime Correia de Sousa

Fernando Rodrigues

Jorge Pedrosa

João Bessa

Manuel João Costa

Students

João Firmino Machado (6th y)

João Louro (5th y)

Alberto Silva (4th y)

Ana Isabel Sá (3rd y)

Gerrit Gabriel Hogemann (2nd y)

Maria Inês Rebelo (1st y)

Pedro Morgado (3rd cycle), PhD student

Eduardo Gomes (3rd cycle), PhD student

2.4. Scientific Areas, Curricular Units and Module Coordinators

2.4.1. Scientific Areas/Coordinators

Scientific Area Coordinator

Biomedical Sciences Fernando Rodrigues

Pathology Jorge Pedrosa

Community Health Jaime Correia de Sousa

Clinics Nuno Sousa

2.4.2. Curricular Units and Module Coordinators (2012-2013)

A – Six-year Integrated Master Programme in Medicine

Curricular	Curricular Unit	Coordinator			
Year	Module				
	Introduction to the Medical Degree	MANUEL JOÃO COSTA			
	Molecules and Cells	FERNANDO RODRIGUES			
	From Anatomy to Cellular Phisiology	Paula Ludovico			
	Molecular Genetics Foundations	Margarida Saraiva			
	Proliferation Differentiation Cellular and Death	Susana Pascoal			
	Functional and Organic Systems I	ARMANDO ALMEIDA			
1st	Gen. Introd. and Musculoskeletal System and Skin I	Ana Franky			
	Gen. Introd. and Musculoskeletal System and Skin II	Tiago Gil Rodrigues			
	Digestive System	Carla Rolanda			
	Training in a Health Centre	JAIME CORREIA DE SOUSA			
	Socorrismo	JOSÉ MIGUEL PÊGO			
	Option Project I	FERNANDO RODRIGUES			
	Vertical Domains I	CECÍLIA LEÃO			
	Functional and Organic Systems II and III	ARMANDO ALMEIDA			
	Circulatory and Respiratory Systems I	Jorge Correia Pinto			
	Circulatory and Respiratory Systems II	Maria João Batista			
	Urinary System	Hugo Almeida			
	Reproductive System and Development, Growth and	Cristina Silva			
	Ageing				
2nd	Central Nervous System	João Bessa			
	Peripheral Nervous System	João Cerqueira			
	Endocrine System	Fernanda Marques			
	Option Project II	FÁTIMA BALTAZAR			
	Vertical Domains II	CECÍLIA LEÃO			
	Family, Society and Health I	ALEXANDRE GOUVEIA			

A – Six-year Integrated Master Programme in Medicine (cont.)

Curricular Year	Curricular Unit Module	Coordinator
	Biopathology and Introduction to Therapeutics	JORGE PEDROSA
	General Pathology and Introd. to Pharmacology	António Gil Castro
	Genetics and Environment	Margarida Correia Neves
	Immunopathology	Fátima Baltazar
3rd	Infectious Diseases	José Miguel Pêgo
	Introduction to Community Health	JAIME CORREIA DE SOUSA
	Introduction to Clinical Medicine	JOÃO CERQUEIRA
	Vertical Domains III	CECÍLIA LEÃO
	Family, Society and Health II	ALEXANDRE GOUVEIA
	Medicine I Residence	NUNO SOUSA
	Maternal and Child Health Residence	JORGE CORREIA PINTO
	From Clinical to Molecular Biology I	FÁTIMA BALTAZAR
	Vertical Domains IV	CECÍLIA LEÃO
4th	Health Centre Residencies I	JAIME CORREIA DE SOUSA
	Option Project III	FILIPA RIBEIRO
	Clinical Neurosciences	JOÃO BESSA/JOÃO CERQUEIRA
	Neurology	João Cerqueira
	Psychiatry	João Bessa
	Surgery Residence	NUNO SOUSA
	Medicine II Residence	NUNO SOUSA
	Optional Residencies	MARGARIDA CORREIA NEVES
5th	From Clinical to Molecular Biology II	FÁTIMA BALTAZAR
	Vertical Domains V	CECÍLIA LEÃO
	Health Centre Residencies II	JAIME CORREIA DE SOUSA
	From Clinical to Molecular Biology III	FÁTIMA BALTAZAR
	Health Centre Residency III- Final Training	JAIME CORREIA DE SOUSA
6th	Hospital Residencies - Final Training	NUNO SOUSA
	Optional Project – Final Training	PATRÍCIO COSTA/MANUEL JOÃO COSTA

B - Four-year Graduate Entry Programme in Medicine

Fundamentals of Medicine GIL CASTRO

MI - Metabolism Paula Ludovico

M2- Circulatory Jorge Correia-Pinto

M3- Respiratory Fátima Baltazar

M4- Genito-urinary Armando Almeida

M5- Immunology and Infection Margarida Correia- Neves

M6- Nervous and Locomotor João Bessa

Comunitary Health and Social Sciences and Humanities PATRÍCIO COSTA

2.5. Coordinators of Research and Post-graduate Programmes

Director of ICVS: Jorge Pedrosa

Director of the Post-graduation and of the MD/PhD Programme: Margarida Correia-Neves

Director of the Master Programme: Paula Ludovico

Coordinator of the International Programme of Advanced Courses 2012-2013: Paula Ludovico

2.6. Advisory Council of the School (ACS)

UMinho/ECS Members

Rector of University of Minho (invited member)

Cecília Leão (ECS President)

Nuno Sousa (ECS Vice-President)

Jorge Pedrosa (ECS Vice-President)

External Members

Alistair Warren (University of Sheffield, United Kingdom)

Arsélio Pato de Carvalho (University of Coimbra, Portugal)

Fernando Lopes da Silva (University of Amsterdam, Holand)

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

David Macfadyen (University of Edinburgh)

Peter V. Scoles (National Board of Medical Examiners)

President of Administração Regional de Saúde do Norte Portugal (ARS-N), Portugal

President of Ordem dos Médicos, Portugal

The external members have designated Prof. Fernando Lopes da Silva as the ACS Coordinator.



APPENDIX II ECS ACADEMIC AND NON-ACADEMIC STAFF

ECS ACADEMIC AND NON-ACADEMIC STAFF

Academic Year 2012-2013

Teaching staff

Name	Qualifications	Categoria (Status)
Maria Cecília L.P. Estrela Leão	PhD, <i>Agregação</i>	Prof. Catedrática 100%
Joana Almeida S. Pacheco Palha	PhD, Agregação	Prof. Catedrática 100%
Jorge Manuel Rolo Pedrosa	PhD, Agregação	Prof. Catedrático 100%
Nuno Jorge Carvalho de Sousa	MD, PhD, Agregação	Prof. Catedrático 100%
Jorge Manuel Nunes Correia Pinto	MD, PhD, Agregação	Prof. Catedrático 100%
Rui Manuel Rosário Sarmento e Castro	MD, PhD	Prof. Catedrático Conv. 30%
Damião José Gaspar Lourenço da Cunha	MD	Prof. Catedrático Conv./Colaborador
António Gil Pereira de Castro	PhD	Prof. Associado 100%
Armando A.N. Pinto de Almeida	PhD	Prof. Associado 100%
Fernando José dos Santos Rodrigues	PhD	Prof. Associado 100%
Manuel João Tavares Mendes da Costa	PhD	Prof. Associado 100%
Mª Margarida T. de Vasconcelos C. Neves	PhD	Prof. Associada 100%
Patrícia Espinheira Sá Maciel	PhD	Prof. Associada 100%
Paula Cristina C. A. Monteiro Ludovico	PhD	Prof. Associada 100%
António Jaime Botelho Correia de Sousa	MD, PhD	Prof. Associado Conv. 50%
João D. C. S. Espregueira Mendes	MD, PhD	Prof. Associado Conv. 20%
Isabel Maria da Silva Castro	MD	Prof. Associada Conv./Colaborador
Nuno Pedro G. F. Bento Borges	PhD	Prof. Associado Conv. 15% (FCNA-UP/CRUP)
Filipa Santos Costa Pinto Ribeiro Lacerda	PhD	Prof. Auxiliar 100%
João Carlos Cruz Sousa	PhD	Prof. Auxiliar 100%
Maria de Fátima M. Baltazar	PhD	Prof. Auxiliar 100%
João José F. C. de Araújo Cerqueira	MD, PhD	Prof. Auxiliar 100%
João Miguel S. Bessa Peixoto	MD, PhD	Prof. Auxiliar 100%
José Miguel G. Moreira Pêgo	MD, PhD	Prof. Auxiliar 100%
Patrício Ricardo Soares Costa	PhD	Prof. Auxiliar 100%
Adhemar Longatto	PhD	Prof. Auxiliar Conv. 60%
John Samuel Yaphe	MD	Prof. Auxiliar Conv. 60%
Margarida Sofia da Silva Santos Saraiva	PhD	Prof. Auxiliar Conv. 60%
Cristina Isabel Nogueira da Silva	MD, PhD	Prof. Auxiliar Conv. 50%
Ana Raquel Franky Gomes Carvalho	MD, PhD	Prof. Auxiliar Conv. 40%
Carla Rolanda Rocha Gonçalves	MD, PhD	Prof. Auxiliar Conv. 40%
Maria João R. Leite Baptista	MD, PhD	Prof. Auxiliar Conv. 40%
Pedro Alexandre L.A.G. Teixeira	MD, PhD	Prof. Auxiliar Conv. 40%
Rosete Mª Amorim N. Nogueira Cardoso	MD	Prof. Auxiliar Conv. 40%
Tiago Gil Rodrigues Oliveira	MD, PhD	Prof. Auxiliar Conv. 40%
António José Braga Osório Gomes Salgado	PhD	Prof. Auxiliar Conv. 30%
Estevão Augusto Rodrigues de Lima	MD, PhD	Prof. Auxiliar Conv. 30%
Jorge de Almeida Berkeley Cotter	MD, PhD	Prof. Auxiliar Conv. 30%
Luísa Alexandra Meireles Pinto	PhD	Prof. Auxiliar Conv. 30%
Ana João Gomes Rodrigues	PhD	Prof. Auxiliar Conv. 25%

Fernanda Cristina G. de Sousa Margues	PhD	Prof. Auxiliar Conv. 25%
Hugo Miguel V.L. S. de Almeida	PhD	Prof. Auxiliar Conv. 25%
Nuno Miguel Sampaio Osório	PhD	Prof. Auxiliar Conv. 25%
Agostinho José Carvalho dos Santos	MD, PhD	Prof. Auxiliar Conv. 20%
Henedina da Conceição Araújo Antunes	MD, PhD	Prof. Auxiliar Conv. 20%
• •	•	-
Maria Cláudia G. Rodrigues da Conceição	MD, PhD	Prof. Auxiliar Conv. 20%
Maria Cláudia Gomes dos Santos	PhD	Prof. Auxiliar Conv. 20%
Maria José Teixeira Costeira Paulo	MD, PhD	Prof. Auxiliar Conv. 20%
Rui Manuel Vieira Reis	PhD	Prof. Auxiliar Conv. 20%
Alexandra Sofia Lopes Miranda	MD	Assistente Conv. 40%
Ana Célia Caetano Catarino dos Santos	MD	Assistente Conv. 40%
Ana Luísa Carneiro Morais de Sousa	MD	Assistente Conv. 40%
Aníbal Miguel de Araújo Correia Ferreira	MD	Assistente Conv. 40%
Artur Jorge Gomes Vieira	MD	Assistente Conv. 40%
Carlos Alberto Pereira Capela	MD	Assistente Conv. 40%
Cláudia Alexandra Parreira Bulhões	MD	Assistente Conv. 40%
Emanuel Carvalho Dias	MD	Assistente Conv. 40%
Hélder Novais e Bastos	MD	Assistente Conv. 40%
Isaac Leandro Campos Braga	MD	Assistente Conv. 40%
Ivo Ricardo da Silva Ferreira	MD	Assistente Conv. 40%
João F. Marques de A. Ferreira Menino	Lic.	Assistente Conv. 40%
João Moreira Pinto	MD	Assistente Conv. 40%
José António Briote Mariz	MD	Assistente Conv. 40%
Luís Manuel Cunha P. Figueiredo	MD	Assistente Conv. 40%
Nuno Jorge Ramos Abreu da Silva Lamas	MD	Assistente Conv. 40%
Paulo Ricardo Oliveira da Mota	MD	Assistente Conv. 40%
Pedro Ricardo Luís Morgado	MD	Assistente Conv. 40%
Rui Miguel Fernandes Duarte	MD	Assistente Conv. 40%
Sandra de Fátima F. Martins	MD	Assistente Conv. 40%
Sara Cláudia Santos da Hora Gomes	MD	Assistente Conv. 40%
Tiago Domingues Barbosa da Frada	MD	Assistente Conv. 40%
Vítor Hugo da Eira Pereira	MD	Assistente Conv. 40%
Alexandre Coutinho Borges Gouveia	MD	Assistente Conv. 30%
André Santa Cruz João	MD	Assistente Conv. 30%
Sara Manuela B. Marques de Oliveira	MD	Assistente Conv. 30%
Alexandre Manuel Câmara de Carvalho	MD	Assistente Conv. 20%
Ana Filipa Melo Coelho Carvalho Pimentel	MD	Assistente Conv. 20%
Ana Isabel da Silva Quelhas	MD	Assistente Conv. 20%
Ana Maria Lacerda A. Horta	MD	Assistente Conv. 20%
Ana Paula Lopes Gomes	MD	Assistente Conv. 20%
António Pedro G. Rodrigues da Fonte	MD	Assistente Conv. 20%
Ana Teresa Neves Magalhães	MD	Assistente Conv. 20%
Jean-Pierre Antunes Gonçalves	MD	Assistente Conv. 20%
Luís Filipe Martins da Silva	MD	Assistente Conv. 20%
Maria João Barbosa Silva	MD	Assistente Conv. 20%
Vera Filipa Batista da Silva Trocado	MD	Monitora

Visiting Professors

Evandro de Oliveira, MD PhD, Prof.Titular (Universidade de Campinas, São Paulo)
Gustavo Henrique Goldman, PhD, Prof.Titular (Universidade de São Paulo)
Júlio Licínio (John Curtin School of Medical Research, Australian National University)
Ma-Li Wong (John Curtin School of Medical Research, Australian National University)
Maria de Sousa, PhD, Emeritus Professor, (Instituto de Ciências Biomédicas Abel Salazar)
Osborne Almeida, MD, PhD, Full Professor (Max Planck Inst. of Psychiatry)
Peter Vincent Scoles, MD (National Board of Medical Examiners)
Rui Manuel Marques Fernandes da Costa, MVD, PhD (Fundação Champalimoud)

Non-Academic Staff

Name	Qualifications	Categoria (Rank)	Service
José Carlos da F. Henriques	Licenciatura	Secretário	DEX (Retired on 2 July 2013)
Ana Paula Salgueira Rodrigues	Licenciatura	Técnico Superior	UEM
Amandine Marques Azevedo	Licenciatura	Técnico Superior	Secretariat
Lucília G. Ribeiro Pinto	Mestrado	Técnico Superior	Laboratories
Magda João Castelhano Carlos	Mestrado	Técnico Superior	Laboratories
Mª José T. F. Tarroso Gomes	Licenciatura	Técnico Superior	Academic Office
Mª Madalena Abreu C. Branco	Licenciatura	Técnico Superior	Secretariat
Maria Paulina D.M. Santos	Licenciatura	Técnico Superior	Project Support Office
Paula C. F. Gomes Pereira	Licenciatura	Técnico Superior	Human Resources
Ricardo Filipe Silva Mota	Licenciatura	Técnico Superior	Post-Graduation Office
Sandra Mª T. Coutinho P. V. Santos	Mestrado	Técnico Superior	Laboratories
Luís Filipe F. Oliveira Martins	Licenciatura	Técnico Superior	Laboratories
Paulo Sérgio S. dos Santos Cabral	Licenciatura	Especialista de Informática, Grau 3, Nível 2	Informatics Office
Jorge Manuel S.G. Freitas	Licenciatura	Técnico Superior	UEM
Domingos Ferreira Dias	Secondary Education	Técnico de Informática Adjunto	Informatics Office
Olga Maria S. Miranda Abreu	Secondary Education	Coordenador Técnico	Secretariat
Cláudia Filipa R. Pereira	Licenciatura	Assistente Técnico	Laboratories
Denise Maria F. Silva	Secondary Education	Assistente Técnico	Laboratories
Fernando Paulo Duarte Silva	Licenciatura	Assistente Técnico	Financial Office
Helena Maria A. Nascimento	Licenciatura	Assistente Técnico	Secretariat
Isabel C. dos Santos Rocha	Licenciatura	Assistente Técnico	Planning Office

Isabel Maria V. Barbosa	Licenciatura	Assistente Técnico	UEM
Maria Agostinha F. Costa	Secondary Education	Assistente Técnico	Laboratories
Maria Manuela M. Mendes	Licenciatura	Assistente Técnico	Financial Office
Pedro Miguel Borges Ribeiro	Mestrado/Pós-Graduação	Assistente Técnico	UEM
Sara Feio de A. R. A. Malheiro	Licenciatura	Assistente Técnico	UEM
António Miguel O. da Mota	Secondary Education	Assistente Operacional	Laboratories
João Filipe A. Malheiro	Secondary Education	Assistente Operacional	Laboratories
José Carlos Teixeira da Rocha	Secondary Education	Assistente Operacional	Laboratories
Maria Celina F. Barros	Secondary Education	Assistente Operacional	Laboratories
Maria Manuela S. Carneiro	Secondary Education	Assistente Operacional	Laboratories
Maria Fernanda C. Fernandes	Basic Education	Assistente Operacional	Laboratories
Susana Isabel Vaz Santos	Secondary Education	Assistente Operacional	Laboratories
Fernando Jorge Silva Nogueira	Licenciatura	Especialista de Informática (PEUM)	Informatics Office
Noé Amorim da Rocha	Licenciatura	Especialista de Informática (PEUM)	Informatics Office
Ana Sofia Silva Lima	Licenciatura	Técnico de Diagnóstico e Terapêutica (Regime de aquisição de serviços)	Laboratories



APPENDIX III

CLINICAL COORDINATING GROUPS, SUPERVISORS AND TUTORS AT THE AFFILIATED HOSPITALS AND HEALTH CENTRES

CLINICAL COORDINATING GROUPS

Acronyms - Health Institutions: HB - Hospital de Braga CHAAG – Centro Hospitalar do Alto Ave - Unidade de Guimarães ULSAM - Unidade Local de Saúde do Alto Minho

a) The Medicine Coordination Group

- Nuno Sousa (MD, PhD/ ECS)
- Damião Cunha (MD, PhD/ ECS)
- Abel Rua (MD/ HB)
- Jorge Cotter (MD, PhD/ CHAAG)
- Diana Guerra (MD/ ULSAM)

b) The Woman, Mother and Child Health Coordination Group

- 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)
- Cláudia Tavares (MD / CHAAG)
- Paula Pinheiro (MD/ ULSAM)
- José Rei Amorim (MD/ ULSAM)

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)
- Fátima Almeida (MD/ HB)
- Aníbal Ribeiro da Fonte (MD, PhD/ ULSAM)
- Sandra Perdigão (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 Alpoim (MD/ CHAAG)
- Fausto Fernandes (MD/ CHAAG)
- Alberto Midões (MD/ ULSAM)

e) The Community Health and Family Medicine Coordination Group

- Jaime Correia Sousa (MD, PhD, Family Medicine/ ECS)
- John Yaphe (MD, MSc, Family Medicine/ ECS)
- Alexandre Gouveia (MD, Family Medicine/ ECS)
- Luís Silva (MD, Family Medicine/ ECS)
- Manuel João Costa (PhD, Community Health / ECS)
- Patrício Costa (PhD, Statistician, Community Health / ECS)
- Cláudia Conceição (MD, PhD Community Health/ ECS)

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

- Nuno Sousa (MD, PhD/ ECS)
- Damião Cunha (MD, PhD/ ECS)
- Abel Rua (MD/ Hospital de Braga)
- Jorge Cotter (MD, PhD/ CHAAG)
- Diana Guerra (MD/ ULSAM)

HOSPITAL SUPERVISORS

Acronyms - Health Institutions:

HB - Hospital de Braga CHAAG – Centro Hospitalar do Alto Ave - Unidade de Guimarães ULSAM - Unidade Local de Saúde do Alto Minho

		НВ	CHAAG	ULSAM
Introduct to Clinica	tion al Medicine	Abel Rua Francisco Nunes Gonçalves	Jorge Cotter	Diana Guerra
Medicine	e I Residency	Abel Rua	Jorge Cotter	Diana Guerra
	Internal Medicine	Abel Rua	Jorge Cotter	Diana Guerra
	Pneumology Cardiology	Francisco Nunes Gonçalves João Cunha Adelino Correia Adília Rebelo	Maria Manuel Figueiredo António Lourenço	Rui Nêveda Carla Costa Dias Carlos Letra Mateus
	Gastroenterology	Carla Rolanda	José Cotter	José Ramada
Clinical N	leurosciences			
	Psychiatry Neurology	Alberto Bessa-Peixoto Fátima Almeida	Carlos Lima Maria Lurdes Rodrigues	Aníbal Ribeiro da Fonte Sandra Perdigão
Materna	I-Child Health Residency			
	Gynaecology Obstetrics Paediatrics	Pedro Cabrita Luísa Cardoso Almerinda Pereira	Fernanda Tavares Sofia Dantas Cláudia Tavares	Paula Pinheiro Paula Pinheiro José Rei Amorim
Surgery F	Residency	A. Mesquita Rodrigues	Carlos Alpoim	Alberto Midões
	General Surgery Urology Ophthalmology ORL Orthotraumatology	A. Mesquita Rodrigues Estêvão Lima Fernando Vaz Rui Pratas Manuel Vieira da Silva	Carlos Alpoim Ricardo Ramires Fausto Fernandes Carlos Vilela	Alberto Midões Eurico Maia Hugo Carvalho Francisco Pereira Lima Rodrigues Miguel Leal
	Neurosurgery	Carlos Alegria		
Medicine	e II Residency	Abel Rua	Jorge Cotter	
	Internal Medicine	Abel Rua Francisco Nunes Gonçalves	Jorge Cotter	Diana Guerra
	Infectious Diseases Nephrology Hemato-oncology	Francisco Nunes Gonçalves Abel Rua Rui Nabiço António Marques	Jorge Cotter Jorge Cotter Camila Coutinho	 Diana Guerra
	Dermatology Endocrinology	Celeste Brito Altino Frias	António Ferrete	

Hospital Residencies – Final Training

Internal Medicine	Abel Rua	Jorge Cotter	Diana Guerra
	Francisco Nunes Gonçalves		
Gynaecology	Pedro Cabrita	Cláudia Guerra	Paula Pinheiro
Obstetrics	Luísa Cardoso	Cláudia Guerra	Paula Pinheiro
Paediatrics	Almerinda Pereira	Cláudia Tavares	José Rei Amorim
Mental Health	Alberto Bessa-Peixoto	Carlos Lima	Aníbal Ribeiro da Fonte
Surgery	A. Mesquita Rodrigues	Carlos Alpoim	Alberto Midões

HEALTH CENTRE SUPERVISORS

Acronyms - Health Institutions: ACES – Agrupamento de Centros de Saúde ULS – Unidade Local de Saúde

Training in a Health Centre

Area	Supervisor
ACES do Cávado I – Braga	Ana Filipa Pimentel / Cláudia Conceição
ACES do Cávado II – Gerês/Cabreira	Ana Filipa Pimentel / Cláudia Conceição
ACES do Cávado III – Barcelos/Esposende	Ana Filipa Pimentel / Cláudia Conceição
ACES do Alto Ave – Guimarães/Vizela/Terras de Basto	Luís Laranjeiro

Family, Society and Health I / II

Area	Supervisor
ACES do Cávado I – Braga	Ana Filipa Pimentel / Cláudia Conceição
ACES do Cávado II – Gerês/Cabreira	Ana Filipa Pimentel / Cláudia Conceição
ACES do Alto Ave – Guimarães/Vizela/Terras de Basto	Alexandre Gouveia / Yonah Yaphe / Luís Silva
ULS de Matosinhos	Alexandre Gouveia / Yonah Yaphe/ Luís Silva
ULS do Alto Minho	Alexandre Gouveia / Yonah Yaphe/ Luís Silva

Health Centre I Residency

Area	Supervisor
Public Health	Mário Freitas

Health Centre II Residency

Area	Supervisor
ACES do Alto Ave — Guimarães/Vizela/Terras de Basto	Luís Laranjeiro
ACES do Ave – Famalicão	Ana Filipa Pimentel / Ana Gomes
ACES do Cávado I – Braga	Ana Filipa Pimentel / Ana Gomes / Maria João Barbosa / Ana Teresa Magalhães
ACES do Cávado II – Gerês/Cabreira	Ana Filipa Pimentel / Ana Gomes
ACES do Cávado III – Barcelos/Esposende	Ana Filipa Pimentel / Ana Gomes / Maria João Barbosa / Ana Teresa Magalhães
ACES do Grande Porto I – Santo Tirso/Trofa	Luís Silva
ACES do Grande Porto II – Gondomar	Jaime Correia de Sousa
ACES do Grande Porto III – Maia/Valongo	Jaime Correia de Sousa
ACES do Grande Porto IV – Póvoa de Varzim/Vila do Conde	Jaime Correia de Sousa/ Luís Silva
ACES do Grande Porto V – Porto Ocidental	Jaime Correia de Sousa

ACES do Grande Porto VI – Porto Oriental	Jaime Correia de Sousa
ACES do Grande Porto VII – Vila Nova de Gaia	Jaime Correia de Sousa
ACES do Tâmega III – Vale do Sousa Norte	Jaime Correia de Sousa
ACES Vila Real	Jaime Correia de Sousa
ULS do Alto Minho	Alexandre Gouveia
ULS de Matosinhos	Jaime Correia de Sousa

Health Centre Residency – Final Training

Area	Supervisor
ACES do Alto Ave – Guimarães/Vizela/Terras de Basto	Luís Laranjeiro
ACES do Ave – Famalicão	Ana Filipa Pimentel / Ana Gomes
ACES do Cávado I – Braga	Ana Filipa Pimentel / Ana Gomes / Maria João Barbosa / Ana Teresa Magalhães
ACES do Cávado II – Gerês/Cabreira	Ana Filipa Pimentel / Ana Gomes
ACES do Cávado III – Barcelos/Esposende	Ana Filipa Pimentel / Ana Gomes / Maria João Barbosa / Ana Teresa Magalhães
ACES do Grande Porto I – Santo Tirso/Trofa	Luís Silva
ACES do Grande Porto II – Gondomar	Jaime Correia de Sousa
ACES do Grande Porto III – Maia/Valongo	Jaime Correia de Sousa
ACES do Grande Porto IV – Póvoa de Varzim/Vila do Conde	Jaime Correia de Sousa/ Luís Silva
ACES do Grande Porto V – Porto Ocidental	Jaime Correia de Sousa
ACES do Grande Porto VII – Vila Nova de Gaia	Jaime Correia de Sousa
ULS do Alto Minho	Alexandre Gouveia
ULS de Matosinhos	Jaime Correia de Sousa
Other areas	Jaime Correia de Sousa

HOSPITAL TUTORS

Acronyms - Health Institutions: HB - Hospital de Braga CHAAG – Centro Hospitalar do Alto Ave - Unidade de Guimarães ULSAM - Unidade Local de Saúde do Alto Minho

INTRODUCTION TO CLINICAL MEDICINE

НВ	CHAAG	ULSAM	
Internal Medicine	Internal Medicine	Internal Medicine	
Alexandre Carvalho	Ana Novo	Ana Nascimento	
Cecília Vilaça	Elisa Torres	Carmélia Rodrigues	
Filipa Azevedo	Emília Lopes	Edgar Torre	
Juan Garcia	Estefânia Bustabad	Liliana Costa	
Luísa Pinto	Filipe Gonçalves	Manuel Ferreira	
Margarida Fonseca	Glória Alves	Soraia Oliveira	
Maria do Rosário Araújo	Helena Sarmento		
Maria João Regadas	Magda Fernandes		
Maria João Silva	Margarida Rocha		
Olinda Sousa Caetano	Nuna Vieira		
Paulo Gouveia	Pedro Cunha		
Ricardo Alves	Sara Pereira		
Sofia Esperança			
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MEDICINE I RESIDENCY

Medicine I Residency – HB

Internal Medicine	Pneumology	Cardiology	Gastroenterology
Alexandre Carvalho	Beatriz Fernandes	Adelino Correia	Ana Célia Caetano
Cristina Ângela	Cecília Pacheco	Alberto Salgado	Bruno Gonçalves
Ilídio Brandão	João Cunha	António Gaspar	Carla Rolanda
Isabel Apolinário	Lourdes Iglésias	Carlos Braga	João Soares
Luísa Pinto	Lurdes Ferreira	Jorge Marques	Paula Peixoto
Manuela Rocha	Manuel Macedo	Nuno Salomé	Pedro Bastos
Maria do Céu Rodrigues	Rui Rolo	Sérgia Rocha	
Maria João Regadas		Sérgio Nabais	
Narciso Oliveira		Sónia Magalhães	
Olinda Sousa Caetano		Sílvia Ribeiro	
Paulo Gouveia		Vítor Ramos	
Rosário Araújo			
Sofia Caridade			
Sofia Esperança			
Teresa Pimentel			
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Medicine I Residency – CHAAG

Internal Medicine	Pneumology	Cardiology	Gastroenterology
Ana Silva	António Costa	António Lourenço	Bruno Rosa
Cristina Ramalho	Duarte Araújo		Carla Marinho
Elisa Torres	Maria José Guimarães		Francisca Dias de Castro
Estefânia Bustabad	Maria Manuel Figueiredo		Joana Magalhães
Filipe Gonçalves			José Manuel Ribeiro
Glória Alves			Mara Barbosa
Helena Sarmento			Maria João Moreira
Rafael Velho			Pedro Carvalho
Rui Fernandes			Pedro Moutinho Ribeiro
Sandra Barbosa			Sílvia Leite
Sara Freitas			
Sara Pereira			

Medicine I Residency – ULSAM

Internal Medicine	Pneumology	Cardiology	Gastroenterology
Augusta Silva	Elena Lombardia	Carla Costa Dias	João Carrasquinho
Carmélia Rodrigues	Francisco Diaz	Francisco Diaz Carlos Letra Mateus	José Ramada
João Pedro Andrade	Andrade José Albino Lopes	Rui Pedro Lima	Luís Lopes
Manuel Ferreira	nuel Ferreira Rui Nêveda		
Paula Felgueiras			
Raquel Lopez			

CLINICAL NEUROSCIENCES

Clinical Neurosciences – HB

Psychiatry	Neurology
António Sousa Cepa	Álvaro Machado
Daniela Freitas	Ana Filipa Santos
David Jurjo	Carla Ferreira
Joaquim Duarte	Esmeralda Lourenço
Jorge Gonçalves	Filipa Sousa
Juliana Carvalho	Gisela Carneiro
Maria Luisa Silva	João Pereira
Natália Fernandes	Ricardo Maré
Pedro Morgado	
Sónia Azenha	

Clinical Neurosciences - CHAAG

Psychiatry	Neurology
Carlos Lima	Ângela Silva
Luís Fonseca	Maria Lurdes Rodrigues
Rosa Maria Rodrigues	Miguel Gago
Sónia Ramos	

Clinical Neurosciences - ULSAM

Psychiatry	Neurology
Bruno Coutinho	Élia Baeta
Elisa Lopes	Rosa Lobato
Paula Pina	Sandra Perdigão
Ricardo Gil Faria	
Teresa Novo	

MATERNAL AND CHILD HEALTH RESIDENCY

Maternal and Child Health Residency - HB

Obstetrics	Paediatrics	Neonatology
Blandina Gil	Ana Antunes	Albina Silva
Carla Monteiro	Ângela Oliveira	Carla Sá
Fernando Cardoso Ricardo Ângela Pereira		Dária Resende
Luís Carvalho	Ariana Afonso	Eduarda Abreu
Luísa Cardoso	Augusta Gonçalves	Isabel Cunha
Teresa Ramos	Carla Garces	Miguel Costa
	Carla Moreira	Nicole Silva
	Claudia Patraquim	
	Filipa Neiva	
	Helena Silva	
	Henedina Antunes	
	Joana Teixeira	
	Manuela Alves	
	Maria Miguel Gomes	
	Sofia Martins	
	Susana Carvalho	
	Teresa Pontes	
	Vera Baptista	
	Blandina Gil Carla Monteiro Fernando Cardoso Ricardo Luís Carvalho Luísa Cardoso	Blandina Gil Carla Monteiro Fernando Cardoso Ricardo Luís Carvalho Luísa Cardoso Luísa Cardoso Teresa Ramos Carla Garces Carla Moreira Claudia Patraquim Filipa Neiva Helena Silva Henedina Antunes Joana Teixeira Manuela Alves Maria Miguel Gomes Sofia Martins Susana Carvalho Teresa Pontes

Maternal and Child Health Residency - CHAAG

Gynaecology	Obstetrics	Paediatrics	Neonatology
Carla Duarte	Adosinda Rosmaninho	Alberto Costa	Agostinha Costa
Carolina	Ana Maria Andrade	Ana Luísa Lobo	Clara Paz Dias
Fernanda Fernandes	António Almeida	Armandina Silva	Maria José Vale
Horácio Azevedo	Carlinda	Cláudia Tavares	
Manuela Mesquita	Cátia Ferreira	Cristina Ferreira	
Pedro Figueiredo	Cláudia Guerra	Isolina Aguiar	
Pedro Oliveira	Dânia Ferreira	Teresa São Simão	
Pedro Vieira de Castro	Elsa Pereira		
Sofia Costa	Rosa Maria Fernandes		
Vivas de Freitas	Sofia Dantas		

Maternal and Child Health Residency - ULSAM

Gynaecology / Obstetrics	Paediatrics	Neonatology
Agostinho Carvalho	Catarina Sousa	Beatriz Sousa
Ana Paula Gama	Ana Rita Araújo	Emília Monteiro
Ana Rita Abreu	Hugo Rodrigues	
Avelina Almeida	Idalina Maciel	
Domingos Ribeiro	Margarida Reis Morais	
Fátima Domingues	Sandrine Martins	
Jorge Mesquita	Suzana Figueiredo	
Márcio Faria	Virgínia Sampaio	
Pedro Patrão		
Marinho Santos		

SURGERY RESIDENCY

Surgery Residency - HB

General Surgery	Urology	Ophthalmology	ORL	Orthotraumatology	Neurosurgery
Cristina Ribeiro	António Pedro Carvalho	Carla Ferreira	Angelino Barroso	Duarte Alegre	Afonso Almeida Pinto
Conceição Antunes	Carlos Oliveira	Gabriel Morgado	Berta Rodrigues	Eurico Bandeira	Joana Boléo Tomé
Dina Luis	Jorge Ribeiro	Luís Mendonça	Daniel Miranda	Nuno Sevivas	João Abreu Lima
Elsa Amorim	Vítor Hugo Nogueira	Maria Antónia Costa	Duarte Freitas	Nuno Tavares	Miguel Afonso
Fernanda Nogueira		Nuno Gomes	Filipa Moreira	Pedro Varanda	Nuno Morais
Fernando Manso		Nuno Lopes	Joana Guimarães	Ricardo Maia	Ricardo Moreira
Helena Marques		Paulo Mesquita Marques	Luís Dias	Duarte Alegre	Rui Almeida
Joaquim Falcão		Rita Gentil	Nuno Marçal	Eurico Bandeira	
Maia da Costa		Sandra Guimarães	Matos Gonçalves	Nuno Sevivas	
Mário Reis		Tiago Monteiro	Rui Pratas	Nuno Tavares	
Pedro Leão			Santiago Mielgo	Pedro Varanda	
Ricardo Pereira			Sara Pereira	Ricardo Maia	
Sónia Ribas			Sérgio Vilarinho		
Sónia Vilaça					
Teresa Carneiro					

Surgery Residency - CHAAG

General Surgery	Urology	ORL	Orthotraumatology
Andreia Santos	Carlos Guimarães	Alexandre Mexedo	António Moreira
João Reis	Jaime Faria	Ângelo Fernandes	Carlos Vilela
Jorge Magalhães	Ricardo Ramires	Carlos Matos	Manuel Loureiro
Lima Terroso	Rui Versos	Francisco Moreira da Silva	Ramon Ferrero
Manuel Ferreira		Rafaela Teles	Rui Cerqueira
Marina Oliveira		Rita Lopes Moura	Tiago Basto
Ricardo Moreira		Rui Fonseca	
Rui Pinto			
Santos Costa			
Vítor Costa			
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Surgery Residency - ULSAM

General Surgery	Urology	Ophthalmology	ORL	Orthotraumatology
Fernando Barbosa	Eurico Maia	Fernando Vale	Cecília Pereira	Carlos Alves
Francisco Fazeres	José Manuel Leitão	Hugo Carvalho	Francisco Pereira	Cristina Varino
Jesus Ventura Rodriguez	José Pedro Cadilhe		Lima Rodrigues	Francisco Lima Rodrigues
Manuel Araújo			Vitória Seoane	Luís Silva
Maria Conceição Monteiro				Maria Francisca Gonzalez
Marília Cardoso				
Teresa Almeida				

MEDICINE II RESIDENCY

Medicine II Residency - HB

Internal Medicine	Infectious Diseases	Nephrology	Endocrinology	Hemato-oncology	Dermatology
Cecília Vilaça	Alexandre Carvalho	Carlos Soares	Catarina Matos	Catarina Portela	Ana Paula Vieira
Ilídio Brandão	Teresa Pimentel		Maria Lopes Pereira	Herlander Marques	Cristiana Macedo
Juan Garcia			Olinda Marques	Júlia Amorim	José Carlos Fernandes
Luísa Pinto				Teresa Macedo	Maria da Luz Duarte
Manuela Rocha				Ana Paula Barbosa	Teresa Pereira
Maria do Céu Rodrigues				António Marques	
Maria João Regadas					
Mónica Almeida					
Narciso Oliveira					
Olinda Sousa Caetano					
Paulo Gouveia					
Rosário Araújo					
Sofia Caridade					
Sofia Esperança					

Medicine II Residency - CHAAG

Internal Medicine, Infectious Diseases, Nephrology and Endocrinology	Hemato-oncology	Dermatology	
Carlos Fernandes	Alexandra Teixeira	António Ferrete	
Elisa Torres	Camila Coutinho	Olga Pereira	
Estefânia Bustabad	Ilda Faustino		
Filipe Gonçalves			
Glória Alves			
Helena Sarmento			
Laura Castro			
Marta Gonçalves			
Nuna Vieira			
Rafael Velho			
Rui Fernandes			
Sara Freitas			
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Medicine II Residency - ULSAM

Internal Medicine, Infectious Diseases, Nephrology and Endocrinology	Hemato-oncology
Carmélia Rodrigues	Luísa Azevedo
Fernando Gomes	
Liliana Costa	
Manuel Ferreira	
Raquel Lopes	

HOSPITAL RESIDENCIES – FINAL TRAINING

Hospital Residencies – Final Training - HB

Internal Medicine	General Surgery	Psychiatry	Gynaecology / Obstetrics	Paediatrics
Alexandre Carvalho	Conceição Antunes	Daniela Freitas	Gabriel Borges	Albina Silva
Guilherme Gomes	Dina Luís	David Jurjo	Isabel Jardim	Ariana Afonso
Ilídio Brandão	Fernanda Nogueira	João Bessa	Judite Sá Barros	Augusta Gonçalves
Juan Garcia	Fernando Manso	Joaquim Duarte	Lucília Araújo	Carla Moreira
Luísa Pinto	Helena Marques	Juliana Carvalho	Olímpia Fernandes	Carla Sá
Manuela Rocha	Maia da Costa	Maria Luísa Silva	Teresa Coutinho	Eduarda Abreu
Maria do Céu Rodrigues	Mário Reis	Pedro Morgado		Filipa Neiva
Maria João Regadas	Pedro Leão	Sónia Azenha		Helena Silva
Narciso Oliveira	Ricardo Pereira			Henedina Antunes
Olinda Sousa Caetano	Sónia Ribas			Isabel Cunha
Paulo Gouveia	Sónia Vilaça			Manuela Alves
Rosário Araújo	Teresa Carneiro			Sofia Martins
Sofia Caridade				Susana Carvalho
Sofia Esperança				Teresa Pontes
Teresa Pimentel				

Hospital Residencies – Final Training - CHAAG

Internal Medicine	General Surgery	Psychiatry	Gynaecology / Obstetrics	Paediatrics
Ana Novo	Andreia Santos	Carlos Lima	Cláudia Guerra	Bernarda Sampaio
Carlos Fernandes	Carla Marina Oliveira	Luís Fonseca		Carla Laranjeira
Cristina Cunha	Carlos Santos Costa	Rosa Maria Rodrigues		Carla Meireles
Cristina Ramalho	João Reis	Sónia Ramos		Liliana Macedo
Elisa Torres	Jorge Magalhães			Sandra Rodrigues
Emília Lopes	Lima Terroso			Susana Soares
Estefânia Bustabad	Manuel Ferreira			
Fernando Esculcas	Ricardo Moreira			
Filipe Gonçalves	Rui Pinto			
Glória Alves	Vítor Costa			
Helena Sarmento				
Hilda Coronado				
Laura Castro				
Magda Fernandes				
Nuna Vieira				
Paulo Ferreira				
Rui Fernandes				
Rafael Velho				
Sara Freitas				
Sara Pereira				
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Hospital Residencies – Final Training - ULSAM

General Surgery	Psychiatry	Gynaecology / Obstetrics	Paediatrics
Conceição Monteiro	Bruno Sá Coutinho	Ângela Santos	Isabel Martinho
Eduardo Vasconcelos	Patrício Ferreira	Pedro Coutinho	Sérgio Mendanha
Fernando Barbosa	Patrick Alves	Soraia Cunha	
Francisco Fazeres	Paula Pina		
Marília Cardoso			
Rui Escaleira			
Teresa Almeida			
	Conceição Monteiro Eduardo Vasconcelos Fernando Barbosa Francisco Fazeres Marília Cardoso Rui Escaleira	Conceição Monteiro Bruno Sá Coutinho Eduardo Vasconcelos Patrício Ferreira Fernando Barbosa Patrick Alves Francisco Fazeres Paula Pina Marília Cardoso Rui Escaleira	Conceição Monteiro Bruno Sá Coutinho Ângela Santos Eduardo Vasconcelos Patrício Ferreira Pedro Coutinho Fernando Barbosa Patrick Alves Soraia Cunha Francisco Fazeres Paula Pina Marília Cardoso Rui Escaleira

HEALTH CENTRE TUTORS

Acronyms - Health Institutions:

ACES – Agrupamento de Centros de Saúde

ULS – Unidade Local de Saúde

CS – Centro de Saúde

USF – Unidade de Saúde Familiar

US – Unidade de Saúde

UCSP – Unidade de Cuidados de Saúde Personalizados

HEALTH CENTRE I RESIDENCY

Area	Tutor	
	Amaro Domingues	
Braga	João Manuel Cruz	
	Mário Freitas	
	Pedro Gomes Pereira	

HEALTH CENTRE II RESIDENCY

ACES Alto Ave – Guimarães/Vizela/Terras de Basto

Health Centre	Tutor
CS Guimarães – USF Afonso Henriques	Alberto Oliveira
C3 Guillaraes – O31 Alonso Hellinques	Rosa Marques
CS Guimarães – USF S. Nicolau	Luísa Pinto
C3 Guilliardes G31 3. McGlau	Rui Guedes
CS Guimarães – USF Vimaranenses	Carolina Amorim
	Eduarda Meneses
CS Taipas – USF Ara de Trajano	Sílvia Sousa
	Susana Pereira
CS Taipas – USF Duovida (Pólo das Caldas das Taipas	Alberto Perez
C3 Taipas – O3i Duovida (Foio das Caidas das Taipas	Alice Perez
	Celina Peliz
	Mafalda Jordão Abreu
	Maria Alcina Pires
CS Taipas – USF Ponte	Maria João Ribeiro
CS Talpas OSI Toffice	Nelson Pereira
	Pedro Fonte
	Rui Oliveira
	Santiago Figueiroa
	António Miguelote
CS Taipas – USF Ronfe	Carina Antunes
	Vítor Ferreira

ACES do Ave - Famalicão

Health Centre	Tutor
USF Famalicão 1	Maria Alexandra Reis
OSI TalilalicaO 1	Olenka Hahn
USF Terras do Ave	Álvaro Pereira
USF TETTOS UU AVE	Maria Amélia Silva

ACES do Cávado I – Braga

Health Centre	Tutor
	Cátia Azeméis
USF Bracara Augusta	José Fernandes
	Moura Leal
	Cláudia Melo
	Cristiana Sousa
	Francisco Fachado
	Helena Machado
USF Gualtar	Márcia Milet
	Margarida Lima
	Maria Jesus Peixoto
	Ricardo Silva
	Rui Caetano
	Augusta
USF Manuel Rocha Peixoto	Berta Catalão
OSF Manuel Rocha Perxoto	João Carvalho
	Manuela Macedo
USF S. João	Pelaez Carones
OSF 3. JUNO	Maria José Cabrita
USF S. Lourenço	Madalena Cerqueira
	Adriana Vaz
	João Portela
USF + Carandá	Maria Luísa Serra
	Maria Palmira Carneiro
	Pimenta Marinho
USF MAxiSaúde	Miguel Nunes
OSI IVIMAISAUUT	Paula Marques
USF Sanus Carandá	Lucinda Melo
UCSP Adaúfe	Patrícia Valadares
LICCD Infine	Aparício Braga
UCSP Infias	Marina Gonçalves

ACES do Cávado II – Gerês/Cabreira

Health Centre	Tutor
USF PróSaúde - Vila Verde	Isabel Alves
USF VIDA + Vila Verde	Manuel Mariño
	Carla Côrrelo
USF AmareSaúde	Mário Rui Oliveira
	Rui Eusébio
UCSP Viver Mais	Yolanda Carollo
CS Póvoa de Lanhoso – USF Terras de Lanhoso	Alfredo Couto
CS Vila Verde – USF Prado	Cândida Carlos
C3 VIId Verue - U3F F1duU	Filomena Reys
Rio Caldo	António Salgado

ACES do Cávado III – Barcelos/Esposende

Health Centre	Tutor
CS Barcelos - USF Lígios	Ana Maria Ferreira
es barcelos - osi Ligios	Maria Goreti Neves Costa
CS Barcelos - USE Santo António	Antero Monteiro
C3 Barcelos - O3F 3anto Antonio	Cândido Macedo
CS Barcelos – USF Alcaides Faria (Vila Seca)	Elisabete Coutinho
CS Barcelos – USF Esposende Norte	Maria Céu Pinto
USF Calécia (Macieira de Rates)	Maria Dolores Prego Riveiro
USF Viatodos	Sandra Garrido Santos

ACES do Grande Porto I – Stº Tirso/Trofa

Health Centre	Tutor
Extensão de Saúde São Martinho do Campo	Ana Teresa Magalhães
	Cláudia Bulhões
	Cláudia Neto
USF Ponte Velha	Marisa Belchior
	Sónia Ferreira
USF Vil'Alva	Sónia Cardoso

ACES do Grande Porto II – Gondomar

Health Centre	Tutor
USF Nascente	Alzira Braga
USF Santa Maria	Isabel Santos
	Raquel Marques

ACES do Grande Porto III – Maia/Valongo

Health Centre	Tutor
USF Ermesinde	Helena Vieira
USF Pirâmides	Soledade Cosme
USF Viver Mais	Noémia Pinto

ACES do Grande Porto IV – Póvoa de Varzim/Vila do Conde

Health Centre	Tutor
USF Aqueduto	Elisa Ribeiro
USF Casa dos Pescadores	João Monteiro
USF do Mar	Ana Paula Gomes
	João Cunha
USF Eça de Queirós	Inês Bacelar
	Isabel Hora
USF Santa Clara	Patrícia Coelho

ACES do Grande Porto V – Porto Ocidental

Health Centre	Tutor
UCSP Lordelo	Flaminia Ciais
OCSI LOIGEIO	Margarida
USF Aníbal Cunha	Rosa Pires
USF Bom Porto	Patricia Ferreira
USF S. João	Abílio Malheiro
	Maria João Sena Esteves
USF Serpa Pinto	Bernardo Vilas Boas

ACES do Grande Porto VI – Porto Oriental

Health Centre	Tutor
UCSP Santos Pousada	Glória Bernardes
OCSF Salitos Pousaua	Maria João Neto
USF Novo Sentido	Darcília Eusébio

ACES do Grande Porto VII – Gaia

Health Centre	Tutor
USF Espinho	Helena Beça
	Jorge Vinagre
USF S. Félix da Marinha	Cândida Guedes
Canidelo	Fernando Ferreira

ACES do Tâmega III – Vale do Sousa Norte

Health Centre	Tutor
CS Lousada – USF do Torrão	Rui Neto

ACES Vila Real

Health Centre	Tutor
USF Fénix	Augusto Ceriz
OSI TEHIX	Maria João Serafino

ULS Alto Minho

Health Centre	Tutor
CS Arcos de Valdevez – USF Uarcos	Belmira Reis
CS Arcos de Valdevez – USF Vale do Vez	Laura Santos
CS de Monção	Dolores Torres
CS Ponte de Lima – USF Lethes	Raúl Pereira
CS Viana do Castelo - USF Gil Eanes	José Manuel Cunha

ULS de Matosinhos

Health Centre	Tutor
USF Horizonte	Raquel Castro
OSF HOUZOITTE	Teresa Carneiro
USF Leça	Filomena Pastor

HEALTH CENTRE RESIDENCY – FINAL TRAINING

ACES Alto Ave – Guimarães/Vizela/Terras de Basto

CS Cabeceiras de Basto – USF O Basto	Manuel Sá Nogueira
CS Fafe – USF Nós e Vós Saúde	Nuno Santiago
CS Fafe – USF Novo Cuidar	Anabela Von Doellinger
	Sameira Gonçalves
CS Guimarães – USF Vimaranenses	Carolina
CS Guimarães – USF D. Afonso Henriques	Maria José Lopes
Es dumaraes – Osi D. Alonso Herriques	Ricardo Cardoso
CS Taipas – USF Ara de Trajano	Eduarda Meneses
	Susana Pereira
CS Taipas – USF Duovida (Pólo de Briteiros)	Fernanda Rodrigues
L L	uísa Ferraz
	Celina Peliz
<u> </u>	Maria Alcina Pires
CS Taipas – USF Ponte	Maria João Ribeiro
<u> </u>	Nélson Pereira
5	Santiago Figueiroa
-	António Miguelote
CS Taipas – USF Ronfe	Carina Antunes
	/itor Ferreira
CS Vizela – USF Novos Rumos	Maria da Conceição Costa
	oão Cocharra

ACES do Ave - Famalicão

Health Centre	Tutor
CS Famalicão - USF Famalicão	Fátima Maria Meira
	Olenka Hahn
CS Requião	Maria do Carmo Sousa Azevedo

ACES do Cávado I – Braga

Health Centre	Tutor
	Cláudia Melo
US Carandá – USF Gualtar	Cristiana Sousa
	Márcia Milet
	João Carvalho
LIC Manipaires - LICE Manual Danks Deinste	José Samarão
US Maximinos – USF Manuel Rocha Peixoto	Manuela Macedo
	Maria Augusta Pereira
USF MaxiSaúde	Rui Macedo
UCSP Infias	Isabel Maria Oliveira Santos
USF + Carandá	Adriana Vaz
	Dinis Brito
	Inês Dias
	Maria Palmira Carneiro
	Pimenta Marinho
	Tahydi Valle
	Tânia Gomes

ACES do Cávado II – Gerês/Cabreira

Health Centre	Tutor
CS Amares – USF AmareSaúde	Mário Rui Oliveira
C3 Amares – O31 Amaresaude	Rui Eusébio
UCSP Póvoa de Lanhoso	Francisco Lopes
CS Póvoa de Lanhoso – USF Terras de Lanhoso	Alfredo Couto
USF VIDA + Vila Verde	Manuel Mariño
OSI VIDA : VIII VEI GE	Teresa Andrade
CS Vila Verde – USF Prado	Filomena Reys
So the teres sor made	Isabel Martins

ACES do Cávado III – Barcelos/Esposende

Health Centre	Tutor
CS Barcelos – USF Santo António	Dulce Maria Teixeira Carvalho
CS Barcelos – USF Lígios	Maria Goreti Neves Costa
USF Esposende Norte - Unidade de Forjães	Maria Aranzazu Souto
CS Barcelos – USF Alcaides Faria (Vila Seca)	Eliseu Manuel Alvarez Martinez

ACES do Grande Porto I − Stº Tirso/Trofa

Health Centre	Tutor
CS Santo Tirso	Cláudia Neto

ACES do Grande Porto II – Gondomar

Health Centre	Tutor
USF Fânzeres	Ana Coelho
USF Sete Caminhos - S. Cosme	Fátima Borges
USF Sta. Maria - Rio Tinto	Raquel Marques

ACES do Grande Porto III – Maia/Valongo

Health Centre	Tutor
USF S. João de Sobrado	Vanessa Silva Neves Aires
USF Valongo	Ana Paula Madureira Reis
USF Pirâmides	Isabel Susana Monteiro Alves
OSI Tilallides	Susana Cristina Lemos Oliveira

ACES do Grande Porto IV – Póvoa de Varzim/Vila do Conde

Health Centre	Tutor
CS Póvoa do Varzim – USF Eca de Queirós	José Albino Mesquita
	Vítor Fernando Barros Reis
CS Póvoa do Varzim – USF do Mar	Ana Paula Gomes
	João Monteiro
CS Póvoa do Varzim – USF Pescas	
	Vera Pires
	Ana Almeida
CS Vila do Conde – USF Santa Clara	Benedita Graça Moura
	Gomes Eusébio
CS Vila do Conde – USF Aqueduto	Elisa Ribeiro

ACES do Grande Porto V – Porto Ocidental

Health Centre	Tutor
USF Bom Porto	Patrícia Ferreira

ACES do Grande Porto VII – Gaia

Health Centre	Tutor
USF Canidelo	Fernando Ferreira
	Regina Ferreira
USF Canelas	Ana Rita Mourão

ULS Alto Minho

Health Centre	Tutor
CS Arcos de Valvedez – USF UarcoS	Sofia Azevedo
CS Ponte de Lima – USF Vale do Lima	Sílvio Barge
CS Viana do Castelo – USF Gil Eanes	Maria da Luz Monteiro

ULS de Matosinhos

Health Centre	Tutor
CS Leça da Palmeira – USF Maresia	Joana Correia
	Teresa Donat Marques
CS Matosinhos – USF Horizonte	Raquel Castro

Other areas

Health Centre	Tutor
CS Bom Jesus – Funchal	Ana Sá
Ponta Delgada	Marta Borges
Murça	José Coelho



APPENDIX IV

Report of the Advisory Council of the School (ACS)

Report of the Advisory Council of the School (ACS)

Braga 9 - 10 December , 2011

Executive Summary

The ACS is pleased to emphasize that the School can be proud of having made important achievements in the past few years, in the domains of both Education and of Research.

A number of main recommendations follow:

- (i) The ACS is concerned that University Regulations permit students who fail the 1st year to enter the 2nd year; this rule does not favor the efficiency of the study programme nor is it in the best interests of the students and should be reviewed.
- (ii) The ACS suggests incorporating areas of BioMedical Technology and Nanomedicine into the curriculum, taking advantage of the collaborations with the 3B's Research Group of the "Laboratory Associado".
- (iii) The Medical Education Unit (MEU) is performing an excellent job in providing evaluation and policy-related data for the Medical School, but it is advisable that it publishes more in relevant peer-reviewed journals.
- (iv) The ACS suggests that the procedures for the combined MD/PhD could be made more flexible in order to recruit more students.
- (v) The ACS recommends that the University develops a programme of sabbaticals for the scientists involved in this programme so that they can take research leave every 5 years.
- (vi) The ACS advises the School to explore the possibilities of getting financial compensation for the delivery of services to Health Institutions (e.g. Health Services research) and for the participation in clinical trials and the consultation with industry.
- (vii) The ACS strongly suggests that the School establishes a strategy to enhance the visibility of the Medical Curriculum and the ICVS both nationally and internationally.
- (viii) The ACS recommends that the School appoints a Fund-Raising Committee with the objective of promoting and coordinating fund raising activities in general.
- (ix) The continued lack of an animal house is a serious handicap to research activities that should be resolved by the competent authorities with urgency.
- (x) The University/School should consider enlarging this Council with individuals linked to relevant enterprises/business and having important positions in public life.

1. Introduction

The previous External Advisory Committee (EAC) visited the School of Health Sciences for the last time on October 7 – 8, 2007. This was a very special date because it coincided with the official opening of the new building of the School and it was the day of the graduation of the first contingent of students who completed the Medical course at the University of Minho. These events along with the expected publication of the new law regulating Universities Governance led to the discharge of the first EAC after that meeting. Following the approval of the new Statutes of the School, the University appointed a new advisory board "The Advisory Council of the School" (ACS), with the members listed below. On December 9 – 10, 2011, the ACS had its 1st meeting in Braga. Regretfully in the meantime Professor Joaquim Pinto Machado passed away. The ACS pays homage to the memory of the founder of the School, an outstanding personality, a remarkable scholar and an inspiring leader, whose vision shaped the design of the School and the Medical course.

2. General remarks about the site-visit

The ACS compliments the Faculty on the quality of the information it received regarding the Annual Reports of the School and the Life and Health Sciences Research Institute (Institute de Investigação das Ciências da Vida e Saúde, ICVS).

The organization of the site-visit and the meetings with the Directive Board, teaching staff, responsible staff for undergraduate and post-graduate studies and for research, students and alumni were efficiently planned and most informative. This gave the opportunity to have a lively exchange of ideas with the staff and several students.

3. Main events

The ACS wishes to emphasize that the School can be proud of having made important achievements since its inception. In the domain "Education", two of these are particularly noteworthy: (i) the introduction of a "New Pathway" for the Medical Degree for students holding a bachelor's degree; (ii) the collaboration with the US National Board of Medical Examiners (NBME-USA), that has permitted the School to participate in an international experience of assessment of clinical knowledge (along

with Medical Schools from several other countries in the world), and in the setting a basic science exam; the students' results were very good and compared favourably with the best Universities around the world. This provides the ACS with the evidence to assert our conviction that the School is forming graduates of high quality in Medicine.

The ACS also notes the remarkable achievement of the Research Institute that is integrated in the School (ICVS) in its evaluation by the Portuguese Foundation for Science and Technology (FCT) and commends it for obtaining the maximum grade of "Excellent" in 2008. Following this recognition of the high level of the research at ICVS, the Institute established a most welcome partnership with the 3B's Research Group – "Biomaterials, Biodegradables and Biomimetic", to create a new *Associate Laboratory*; the latter was accredited by the Ministry of Science, Technology and High Education, in March 2011.

The ACS is also pleased to note that the ICVS has displayed a high profile of scientific publications. There were 89 papers published in 2010, including five papers in journals with impact factor above 10, and two in journals with an impact factor above 20. In addition, the work developed at the ICVS in 2010 resulted in the successful conclusion of nine PhD theses. In 2011 this trend is sustained with 4 papers in journals with impact factor above 10, including one paper in Nature, among about 80 papers, and 4 PhD theses already concluded.

4. Students.

The performance of the students is being carefully and professionally monitored by the School. Overall this is outstanding as evidenced by the results of the NBME examinations that put Braga students on the top 3rd of the distribution of scores among several US and European Universities. The integration of basic and clinical subjects appears to be successful as corroborated by the fact that the level of performance in Basic Sciences is maintained throughout the course.

Nonetheless the ACS is concerned with respect to the attrition rate in the 1st year and with the fact that a number of students fail more than twice. It appears that the University rules permit that students that fail the 1st year may enter the 2nd year; this rule does not favor the efficiency of the study program nor is it in the best interests of the students and should be reviewed.

5. Educational programmes.

The programmes are being up-dated and whenever necessary improved. The policy of organizing clinical teaching distributed over a network of multiple clinical centers while maintaining the cognitive component centralized at the School, appears to be working very well. Furthermore the integration of the students in Community Health units is an important asset of the Medical course. Nonetheless the ACS notes that the students choose Family Medicine/ Community Medicine only in 3rd place; the reasons for this should be analyzed.

The ACS suggests also that the areas of BioMedical Technology and Nanomedicine should have a stronger position in the curriculum, taking advantage of the collaborations with the 3B's Research Group of the common "Laboratory Associado".

The Medical Education Unit is pursuing a most useful role in policy guidance and in gathering a treasure of data that is being used as pedagogic research material for longitudinal studies. In this context it is advisable that the MEU publishes more in relevant journals in order to better promote the School and its activities and so obtain the recognition it deserves.

The ACS stresses that the examinations to access a medical career are inappropriate because they are only based on memory rather than cognitive abilities and skills, and supports the School in its endeavor to change this obsolete system.

6. Post-graduate programme and 'New Pathway'

The post-graduate programme comprises the Master and PhD in Health Sciences and the PhD in Medicine, as well as the combined MD/PhD programme. The latter opens a challenging opportunity for students who are brave enough to delay the entrance in the medical profession. The timing of this is likely the reason why the number of students following this path is small, with only 2 students who have completed the degree and 4 who are presently enrolled. The ACS suggests that entry into the combined MD/PhD should be made more flexible in order to recruit more students.

Furthermore the School organizes a series of post-graduate courses in a wide range of subjects. The School could use this programme as a selling-point thereby enhancing the visibility of the School both nationally and internationally.

The new pathway, i.e. the Medical Degree for students holding a bachelor's degree started this year and has 18 students enrolled on it, is an excellent initiative.

The School should take this opportunity to make a comparative assessment of the two curricula that will run in parallel and take the opportunity to share good practices between them.

7. Staff – work load, sabbaticals, sustainability.

The ACS praises the staff for their enthusiasm and perseverance in realizing this Medical course and research activity and their outstanding performance, particularly in the present economic climate. Nonetheless the ACS is concerned with the work load of several staff members and recommends that the University develops a programme of sabbaticals for these scientists every 5 years. The School could actively encourage a two-way exchange of staff on sabbaticals so that , while Portuguese scientists would go to foreign laboratories, foreign scientists could be encouraged to take a sabbatical in Braga.

Another concern is how to assure the sustainability of the programme in the long-term. The School is aware of the necessity to recruit a new generation of staff members, both academic and non-academic. The School should develop a clear strategy in this respect since this is an important aspect of the long-term policy of the University/School.

8. Relations with Hospitals and other Health Systems.

The establishment of a Clinical Academic Center is a good initiative. It should give opportunities to realize joint activities, for example in the area of clinical trials. The ACS advises the School to explore the possibilities of getting financial compensation for the delivery of services to Hospitals and to other Health Institutions (e.g. Health Services research) and for the participation in clinical trials and for consultations with industry (such as Pharmaceutical enterprises).

The system to keep highly valued clinical teachers engaged in the School's programme could be improved by implementing an unconventional reward system for these staff.

9. Visibility, Alumni, Fund raising.

The ACS strongly suggests that the School establishes a strategy to enhance the visibility of the Medical Curriculum and the ICVS both nationally and internationally. It may make more use of Websites and other Network communication channels, as well as by having widely advertised "open days" and holding Seminars on scientific topics and themes of Medical Education.

In this context the School could make better use of the Association of Alumni to broadcast the achievements of the School. Regular social contact between the staff and the Alumni should be promoted (e.g. an annual fund raising dinner at the time of graduation).

Furthermore the ACS recommends that the School appoints a Fund-Raising Committee with the objective of promoting and coordinating fund raising activities in general.

10. Research

The site visit of the ACS did not focus on the research activities in sufficient depth, it rather concentrated on the Educational aspects of the School in a wider sense. Therefore the ACS did not examine in detail the research of the ICVS. It may be stated, however (see Section "Main events") that the research activities of the ICVS appear to be in very good shape, as demonstrated by the high level of publications in 2010 and 2011. The ACS took notice, however, of the continued lack of an animal house that was planned from the beginning. This is a serious handicap that should be solved by the competent authorities with urgency.

11. ACS constitution

The current ACS advises that the University/School could consider enlarging this Committee with individuals linked to relevant enterprises/business and having important positions in public life.

The following members were present at the site visit:

Alistair Warren (University of Sheffield) Arsélio Pato de Carvalho (Universidade de Coimbra)

David McFadyen (ex World Health Organization)

Fernando Lopes da Silva (University of Amsterdam)

Joseph S. Gonnella (Thomas Jefferson University)

Peter Scoles (National Board of Medical Examinations)