



# **CURRICULUM VITAE**

**RUI PAULO JINÓ MORENO**



*The Intensive Connection*



Lisbon, 9th of November 2017

## **1. IDENTIFICATION**

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**RUI PAULO JINÓ MORENO**, son of Rui Aurelio Gouveia Moreno and Maria Filomena Carneiro Jinó Moreno. Born in Cascais, Portugal, on June 1961.



## 2. CURRICULAR SUMMARY

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### **PRIMARY SCHOOL**

Held at the Colégio da Cidadela in Cascais.

### **GENERAL COURSE OF LICEUS**

Held at the Cascais Secondary School.

### **COMPLEMENTARY COURSE OF LICEUS**

Held at the Secondary School of Carcavelos, with the final classification of 15 values.

### **BACHELOR IN MEDICINE**

Held at the Faculty of Medical Sciences of Lisbon. Beginning in the academic year 1979/1980 and concluded on July 31, 1985, with a final classification of sixteen values (Good with distinction). I obtained the Medical Degree on July 31, 1985, with a final grade of 16 distinction).

### **GENERAL INTERNAL**

Performed at the Hospital District of Cascais, beginning on February 1, 1986 and concluded on October 30, 1987, with the classification of fit.

### **EXAMINATION OF ACCESS TO COMPLEMENTARY INTERNESHIP**

The multiple choice test with 100 questions was performed on November 21, 1987, and I nobtained 88% of correct answers.

### **COMPLEMENTARY INTERNSHIP INTERNAL MEDICINE**

Performed in the Civil Hospitals of Lisbon, Hospital of Santo António dos Capuchos - Service 1 Medicine, from January 1, 1988 to December 31, 1992, with a rating of 18.6 Values (Very Good with distinction). Examination of the Final Global Evaluation of the Complementary Internal Medicine Internship, held on January 18, 1993, with a Jury composed of Drs. António Barros Veloso, Mário Medina Vasconcelos and Isabel Colaço, with a classification of 19.9 Values. During this period of my training, I took parcellar internships (Medical Emergency Unit, from July 1, 1990 to April 3, 1991, Director Dr. Resina Rodrigues) and Infectious Diseases (January 1, 1992 to June 30, 1992, Curry Cabral Hospital, Service 1, Director Dr. Rui Proença). During this period, I also received training in bronchofibroscopy, echocardiography and surgical approach to the airway, including surgical cricothyroidostomy and tracheostomy and the mastery of all techniques, attitudes and skills classified as compulsory or desirable by the Order of Physicians for the practice of Intensive Care Medicine. Final Classification of Complementary Internship in Internal Medicine of 19.4 values).



### **TITLE OF SPECIALIST IN INTERNAL MEDICINE BY THE ORDER OF PHYSICIANS**

Admitted on September 25, 1993, by resolution of the National Executive Council, of the College of Specialty of Internal Medicine of the Order of Physicians.

### **PAN-AMERICAN AND IBERIAN DIPLOME IN INTENSIVE CARE MEDICINE**

Attributed to 22 of June of 2009, during the VI Pan-American and Iberian Congress of Critical Medicine and Intensive Therapy realized in Quito, Ecuador.

### **EUROPEAN DIPLOME FOR INTENSIVE CARE MEDICINE**

It was carried out by means of a multiple choice test with 77 questions. It was carried out on 19 March 1991 in Brussels, and obtained 63 correct answers. Clinical trial held on December 18, 1991 in Coimbra, with a Jury consisting of Professor Dr. Rui Carrington da Costa, Dr. Jorge Pimentel and Dr. Armindo Rebelo. Approved, I was assigned by Dr. Daniel Scheidegger, coordinator of the Examination that year, the European Diploma for Intensive Care Medicine.

### **COMPETITION FOR THE HOSPITAL ASSISTANT OF INTERNAL MEDICINE**

Contest of Hospital Assistant of Internal Medicine of the Capuchos / Desterro Hospital Subgroup on November 5, 1993 with a classification of 18.2 values.

### **FUNCTIONS OF HOSPITAL ASSISTANT OF INTERNAL MEDICINE**

Hospital Assistant of Internal Medicine on he Hospital Subgroup of Capuchos and Desterro since January 7, 1994, being placed in the mixed Intensive Care Unit of the Santo António dos Capuchos Hospital, where I have been the Chief Emergency Team since 1992 and which I have had the honor of directing since 2003 until his provisional change to the premises of the former Neurosurgery Unit of the Hospital dos Capuhos (August 2011)

### **DOCTOR IN MEDICINE (PhD)**

Held at Rijksuniversiteit Groningen (The Netherlands) on 3 December 1997, the promoters being Professors Reinout van Schilfgaarde and Lambertus Thijs and co-promoter Dr. Dinis Reis Miranda. After a public discussion of the doctoral dissertation held during the stay in the Department of Surgery and Intensive Care at Rijksuniversiteit Groningen and titled "Performance of the ICU: are we able to measure it?", I was assigned by the Rector, summa cum laude, the Doctor of Medicine degree from Rijksuniversiteit Groningen. This title is recognized in Portugal in accordance with Decree-Law no. 216/97 of 18 August Following my approval, I was awarded by the Board of Directors of the Capuchos / Desterro Hospital Subgroup: "... the public louvor is presented, praising its personal and scientific qualities, which honor it, as well as the Institution where it works".

### **TITLE OF SUB-SPECIALIST IN INTENSIVE MEDICINE BY ORDER OF PHYSICIANS**

Admitted on April 30, 1998, by resolution of the National Executive Council, in the College of Sub-specialty of Intensive Medicine of the Order of Physicians. Currently a primary specialty.

### **HOSPITAL MEDICAL CARE ADVISORY DEGREE COMPETITION COMPETITION**

Approved in the qualification contest for the degree of consultant of the hospital medical career in the professional area of Internal Medicine with effects reported on May 27, 1999 (notice no. 10200/99 published in D.R. II series nº 140 of June 18, 1999).

### **COMPETENCE IN MEDICAL EMERGENCY BY THE ORDER OF PHYSICIANS**



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Attributed by the National Executive Council of the Order of Physicians, by means of curricular evidence, on June 18, 2003, the Medical Emergency Competency.

### **COMPETITION FOR THE PROVISION OF HEAD OF INTERNAL MEDICINE SERVICE IN THE RESIDUAL FRAMEWORK OF THE HOSPITAL CENTER OF LISBON CENTRAL, E.P.E.**

Opened in 2003, it was to be concluded in 2008, after the nomination of a new Jury, chaired by Dr. Pimenta da Graça, having obtained the first place among 3 candidates (Diário da República, 2nd series, nº 127, July 3, 2008).

### **HEAD OF INTERNAL MEDICINE SERVICE CENTRO HOSPITALAR DE LISBOA CENTRAL, E.P.E.**

Since my appointment, I have held the position of coordinator of the mixed Intensive Care Unit of the Hospital of St. António dos Capuchos and since 28 May 2012, I have coordinated the Neurocritical Intensive Care Unit of the São José Hospital, Hospital de Central Lisbon, since 28/11/2017,

### **COMPETENCE IN MANAGEMENT OF HEALTH CARE UNITS**

Attributed, by the National Executive Council of the Order of Physicians on April 8, through a curricular test, the Competence in Management of Health Units.

### **AUXILIARY PROFESSOR WITH CONTRACT OF THE MEDICAL SCIENCES FACULTY OF THE NEW MEDICAL SCHOOL**

Collaborating with the Faculty of Medical Sciences as Regent of the Optional Curricular Unit of Emergency Medicine and Catastrophe since 2012, as Collaborator invited by the Regent of the Optional Trauma Curricular Unit since 2012 and as co-Regent of the 1st International Postgraduate Course in Intensive Medicine and 1st International Postgraduate Course in Intensive Medicine (2014) and 2nd International Postgraduate Course in Intensive Medicine (2016) and the third edition(ongoing. Invited Auxiliary Professor since December 3, 2015, collaborating in the practical classes of the students of the Integrated Master in Medicine (EMC3 discipline).

### **PERFORMANCE OF MEDICAL POSTS**

#### **COMPUTER COMMITTEE OF SANTO ANTÓNIO DOS CAPUCHOS HOSPITAL**

From January 24, 1994 until my transfer to the Hospital de São José, I was appointed by the Clinical Department of the Capuchos / Desterro Hospital Subgroup to the Hospital Informatics Commission. This commission began its work with a survey of the needs of the hospital subgroup in terms of computerization, both in the administrative and clinical aspects. Subsequently, a report was presented to the Board of Directors. Following this, the Hospital's IT department was created and a personnel selection competition was held.

#### **SUB-SPECIALTY COMMITTEE ON INTENSIVE MEDICINE OF THE ORDER OF PHYSICIANS**

In 2002, the National Executive Council of the Order of Physicians decided to convene elections for a multidisciplinary Coordinating Committee. Following this process, I was elected in June 2002 to the Directorate of the First Multidisciplinary Elected Commission for Intensive Care Medicine of the Order of Physicians. This commission, which has been operating by appointment of the National Executive Council of the Ordem dos Médicos dated 30 July 2002 as Directorate of the College of Sub-specialty of Intensive Medicine of the Medical Association, has prepared the



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document with the criteria of suitability and in Medical Intensive Care (submitted for approval to the National Executive Council in January 2003). Which is an Intensive Care Unit.

**COORDINATOR OF THE MULTIPURPOSE INTENSIVE CARE UNIT OF SANTO ANTÓNIO DOS CAPUCHOS HOSPITAL**

Coordinator of the Multipurpose Intensive Care Unit of Santo António dos Capuchos Hospital.

**COORDINATOR OF THE MULTIPURPOSE INTENSIVE CARE UNIT OF SANTO ANTÓNIO DOS CAPUCHOS HOSPITAL**

Performance since May 2012 the functions of Coordinator of the Multipurpose Intensive Care Unit of the Hospital of Santo António dos Capuchos.

**CHIEF OF THE EMERGENCY TEAM OF THE INTENSIVE CARE UNIT OF THE SANTO ANTÓNIO DOS CAPUCHOS HOSPITAL**

From March 1992 to May 2012 I have held the positions of Emergency Team Leader in the Multipurpose Intensive Care Unit of the Santo António dos Capuchos Hospital.

**CHIEF OF THE EMERGENCY TEAM OF THE MULTIPURPOSE AND NEUROCRITICAL INTENSIVE CARE UNIT OF THE HOSPITAL OF SÃO JOSÉ, CENTRO HOSPITALAR UNIVERSITÁRIO DE LISBOA CENTRAL**

Performance since May 2012 I perform the role of Emergency Team Leader in the Polyvalent Neuro-Critical Intensive Care Unit of Hospital de São José once every 3 weeks.

**COORDINATOR OF THE COMMITTEE TO PREPARE THE DISASTER PLAN OF CHCL**

Coordinator of the CHLC Catastrophe Commission (2008-2012 and 2012-2016) and integrating the same committee since 2017 (informative circular nº 210 of 03 June 2017)

### 3. SCIENTIFIC ACTIVITY

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Throughout my medical career I have participated, collaborated and organized clinical research work, in the various aspects of my specialty and area of knowledge. Certain of the importance of advances in the basic sciences, I believe that there is a very important space for Translational Medicine and for Clinical Research and health research in populations and the effects of the various health systems on individual patients.

For pragmatic reasons I have concentrated the description of my scientific activity since 2011.

From the research activities I led and participated in:

- Contractor and Coordinator in Portugal, Spain and Israel and member of the Steering Committee of the European Union-funded Corticosteroid Therapy of Sepsis and Septic Shock (QLRT contract 1999-30589) and to evaluate the effectiveness of the hydrocortisone versus placebo in patients with septic shock.
- Participation as initiator, principal investigator and global coordinator of the Steering Committee of the studies:
  - Gravity Indices in Portugal (evaluation of APACHE II versus SAPS in Portuguese ICUs)
  - SOFA - Portugal (Prevalence and epidemiological characteristics of sepsis in Portuguese ICUs)
  - Portuguese National Cost Block Program (evaluation of the costs of Intensive Care Medicine in Portugal)
  - SAPS 3 (Evaluating Effectiveness and Efficiency of Intensive Care Medicine)
- Participation as principal investigator and member of the Steering Committee of the studies:
  - SOFA (Prevalence assessment and stratification of organ dysfunction / multiple organ failure in patients with sepsis)
  - BASIC (prevalence and epidemiology of bacteremia in the ICU) the European Sepsis Project (Prevalence and factors of sepsis evolution in ICUs in Europe and Canada) the European Consortium for Intensive Care Data (Harmonization of critical patient databases in Europe)
  - ERIC (European Registry of Intensive Care) to evaluate the Units and Professionals of Intensive Care Medicine in Europe the SEE (Prevalence of adverse effects in Intensive Care Medicine)
  - SOAP (Sepsis Occurrence in the Acutely Ill Patient): epidemiology of sepsis in ICUs from 24 European countries the SEE II (Prevalence of errors related to parenteral medication in patients hospitalized in Intensive Care Medicine)



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- Ventila I: First international study of the epidemiology of mechanical ventilation in critically ill patients)
- Ventila II: Second international study of the epidemiology of mechanical ventilation in critically ill patients)
- Ventila III: Third international study of the epidemiology of mechanical ventilation in critically ill patients) the EPIIC II (Prevalence of Infection in Intensive Medicine, II) DALI (definition of antibiotic levels in critically ill patients)
- ELOISE (Mortality, morbidity and length of stay in ICUs in Europe)
- EUSOS (European results study in surgical patients)
- SEE III (Multinational study on patient safety during in-hospital transfer of critical patients).
- Ventila IV (Fourth international study on the epidemiology of mechanical ventilation in critically ill patients)
- VIP-1 (The very elderly patient: a prospective observational study)
- VIP-2 (Impact on the family and caregivers of very elderly patients surviving the stay in the Intensive Care Unit: trajectories and impact at 6 months (on planning stage)
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- Participation as a member of the methodological group of studies:
  - EURICUS I (The effect of organization and management on the effectiveness and efficiency of Intensive Care Units in the Countries of the European Community - contract BMH1-CT93-1340)
  - EURICUS II (The effect of harmonizing and standardizing nursing tasks on the Intensive Care Units of the European Community, which ran from 1997 to 1999 - contract BMH4-CT96-0817
  - EURICUS III (Implementation of Guidelines for budget control and cost calculation, and their effect on the management of ICUs in the European Union countries - contract BMH4-CT98-3461), all of which are sponsored by the European Union.
- Participation as principal investigator and National Coordinator of the studies:
  - ENHANCE (Efficacy and safety of activated protein C in severe sepsis)
  - AKI-EPI (Acute renal injury - prospective epidemiological investigation)
  - CONFLICTUS: European study on the prevalence and risk factors of ICU conflicts (randomized, double-blind, placebo-controlled, multi-center, multinational, with drotrecogin alfa (activated) administered as continuous infusion of 96 h in adult patients with septic shock).
    - Impact of continuous transesophageal echography on the diagnosis and approach of the hemodynamically unstable patient with subarachnoid hemorrhage secondary to aneurysm rupture)
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- Participation as researcher in the studies:
  - ACCESS - Eritoran tetrasodium and Placebo in Patients with Severe Sepsis
  - EMD20001 – “A Prospective, Randomized, Double-blind, Placebo Controlled, Dose Ranging, Multi-Centre Study of the Safety and Efficacy of Three Days Continuous Intravenous Infusion of GR270773 in the Treatment of Suspected or Confirmed Gram-negative Severe Sepsis in Adults”
  - A Pivotal, Multicenter, Multinational, Randomized, Double-blind, Placebo-controlled study to Evaluate the Efficacy and Safety of Tak-242 in Adults with Severe Sepsis (Protocol 01-04-TL-242-011
  - MK0991-Protocol 801-00 entitled "Multicenter, Double-Blind, Randomized, Comparative Study to Assess the Safety, Tolerability, and Efficacy of 2 Posological Regimens of Caspofungin in Treatment of Adult Invasive Candidiasis."





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- DecubICUs (Multicenter study on the prevalence of pressure ulcers in Intensive Care Units)
  - Participation as an External Expert in the ELDICUS study: The aging population and disabilities (European Community: QLRT - 2001-00251)
  - Participation as an External Expert in the ELDICUS study: The aging population and disabilities (European Community: QLRT - 2001-00251)

Of my scientific activity I also highlight:

- I have been a member of the consensus committees of the international consensus conferences on "Acute Pancreatitis" and "Hemodynamic monitoring in shock and implications for management" organized jointly by the American Thoracic Society, the European Society of Intensive Care Medicine, the European Respiratory Society, Society of Critical Care Medicine and Société de Réanimation de Langue Française
- I was a member of the Task Force Task Force to draft the recommendations of the Society of Critical Care Medicine (USA) on: "Outcomes"
- "Intensive care unit quality improvement: the" how-to "guide for the interdisciplinary team"
  
- I created and was responsible for 2009 to 2011 for the European Influenza Register (H1N1)v, which allowed quantifying, monitoring and conducting research and dissemination of the results of the research in real time to the professionals involved.
- I founded and integrated the Committee "The Working Group on Quality Improvement of the European Society of Intensive Care Medicine" (2005)
- I founded and joined the Working Group on "Sepsis-related problems" (1996)
- I was the Chair of the Committee responsible for the 2012 review of the Surviving Sepsis Guidelines, created by the European Society of Intensive Care Medicine and the Critical Care Medicine Society (USA) and subscribed by more than 80 Scientific Societies worldwide.
- Joined the Committee on "Guidelines on the diagnosis and treatment of acute heart failure" of the European Society of Cardiology, published in the European Heart Journal 2005; 26: 1115-40.
- I founded, chaired and integrated the Foundation and chaired the working group on "Working conditions of the Intensivists in the European Union" (2013-1017)
- I have been a member of the working group "Recommendations and standard operating procedures for intensive care unit and hospital preparations for an epidemic epidemic or mass disaster", created by ESICM in 2009-2010
- I created and was the first signatory of the Vienna Declaration on Critical Illness, which was endorsed by more than 50 Scientific Societies (2009)
- I joined the Committee responsible for the 2016 revision of the Surviving Sepsis Guidelines created by the European Society of Intensive Care Medicine and the Society the Critical Care Medicine (USA, USA) and subscribed by more than 80 Scientific Societies worldwide.

In the course of my scientific activity I was awarded several prizes, of which I highlight:

- The prize for the best poster presented at the 9th European Congress of Intensive Medicine (Glasgow, 1996), with the theme "Nine Equivalents of Nursing Manpower use Score (NEMS). Validation on the EURICUS-I database "
- Object of public praise of the Board of Directors of Hospital Santo António dos Capuchos / Desterro on the occasion of my doctorate in Medicine (Order of service n° 4 of January 16, 1998).



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- The award for the best free communication presented at the Annual Symposium of the Portuguese Society of Intensive Care / Intensive Care Days of Hospital de S. Pedro (Vila Real, 2001) with the communication "Mortality at 28 days in adult respiratory distress syndrome primary and secondary"
- The Gold Medal of the European Society of Intensive Care Medicine (ESICM-2016) for my "scientific contributions and exemplary commitment to the cause of Intensive Care Medicine"
- The European Society of Intensive Care Award for the best research project 2017

I collaborated actively in the editorial activity in the area of medical sciences. Like this:

- I was editor of the Portuguese Journal of Intensive Medicine (1999 to 2001).
- Integro since 2000 the Advisory Board of the Intensive Care Medicine Magazine
- Integrei from 2002 to 2012 the Advisory Board of the Brazilian Journal of Intensive Care I am since 2012 Editor the Brazilian Journal of Intensive Care (Official Magazine of AMIB and SPCI) the Exerci functions of Reviewer of several Scientific Journals, namely:

1. Acta Anaesthesiologica Scandinavica
2. Advances in Medicine
3. Advances in nursing
4. AJIC American Journal of Infection Control
5. American Journal of Respiratory and Critical Care Medicine
6. Anesthesia & Analgesia
7. Annals of Hepatology
8. Annals of Intensive Care Medicine
9. Annals of Nursing and Practice
10. Arquivos de Medicina
11. BioMed Research International
12. BioMed Research International (White Space Conflict)
13. BMC Anesthesiology
14. BMC Health Services Research
15. BMC Medical Informatics and Decision Making
16. British Journal of Anaesthesiology
17. British Journal of Medicine and Medical Research
18. British Medical Journal
19. Canadian Respiratory Journal
20. Case Reports in Critical Care
21. Chest
22. Clinical Anesthesia and Pain Management
23. Clinical Genetics
24. Clinical Infectious Diseases
25. Computer Methods and Programs in Biomedicine
26. Critical Care
27. Critical Care Medicine
28. Critical Care Research and Practice
29. Edorium Journal of Emergency Medicine Editorial Board
30. Emergency Medicine International
31. Epidemiology and Infection
32. European Journal of Anaesthesia
33. Frontiers in Psychology
34. Frontiers in Psychology Research



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35. Gene
36. Global Research Journal of Microbiology - GRJM
37. International Journal of Critical Care and Emergency Medicine
38. Intensive Care Medicine
39. I International Journal of Chronic Obstructive Pulmonary Disease
40. International Journal of Emergency Medicine
41. International Journal of Nephrology
42. International Journal for Quality in Health Care
43. JAMA
44. Journal of Biomedical Informatics
45. Journal of Critical Care
46. Journal of Medical Microbiology
47. Journal of Pediatric Intensive Care
48. Lancet
49. Minerva Anestesiologica
50. Nursing Research and Practice
51. PLoS ONE
52. Revista Brasileira de Terapia Intensiva
53. Revista Portuguesa de Saúde Pública
54. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine
55. Scientifica
56. The Open Critical Care Medicine Journal
57. The Open Pediatric Medicine Journal
58. Yonsei Medical Journal

I also worked as a Revisor for several official institutions:

1. Federal Authority's strategic priorities "2005 Evaluation of research projects for the programme Action in support of the Federal Authority's strategic priorities" (Bélgica)
2. Health Research Council of New Zealand (2009)
3. The Scottish Hospital Endowments Research Trust (SHERT RG2501 20001119)
4. European Society of Intensive Care Medicine Research Committee (ESICM - RC)
5. 2010-2017 KDIGO Guidelines
6. SIFIM

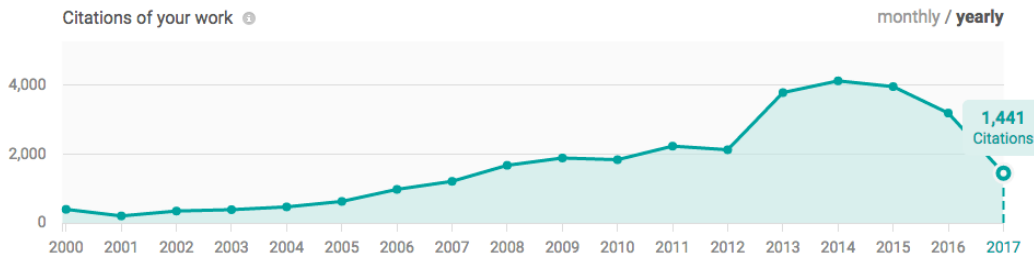
Member of the body of reviewers of all the Congresses of the Intensive Care Studies Center of the Portuguese Society of Internal Medicine (1992-2009) Portuguese of Intensive Medicine since 1997, of all Luso-Brazilian Congresses since its foundation (2007), of the Congresses of Intensive Medicine (since 2012), European Congresses of Intensive Medicine (ESICM) since 1999), Pan American and Iberian Congresses of Intensive Medicine (since 1997), and the World Congresses of Intensive Medicine (since 2000).

During this period, I collaborated in organizing about 200 scientific meetings, organizing about 50 postgraduate courses, conducted about 60 presentations at scientific meetings in the Hospital, and over 1000 presentations in national and international scientific meetings, I edited 5 books, I published 269 manuscripts and 136 abstracts (appendices A, B and C).

Accordingly, with Research Gate the most published author in the CHULC since 2001.

This activity was translated into the following publication indexes (counted on July 22, 2017):

- Research Gate Score: 47.12
- H score: 68
- H score (excluding self-citation): 66
- 31,655 citations in indexed journals



According to Research Gate the most cited author of CHLC since 2001.

#### 4. ACADEMIC ACTIVITY

Of my academic and educational activities I highlight:

- Invited lecturer in the Health Units Management course at the Faculty of Economics and Business Sciences of the Portuguese Catholic University in Lisbon from 1998 to 2001, being responsible for the discipline of "Quality Assessment in Health Units" (responsible Professor Miguel Gouveia) .
- Invited Professor of the Management Program of the Physicians' Association, organized by the Faculty of Economics and Business Sciences of the Portuguese Catholic University of 2004 in Lisbon from the 1st edition in 2004 to the present, being responsible for the discipline of "Quality Evaluation in Health "(responsible Professor Miguel Gouveia and later Professor António Henriques and Mestre Velez Roxo).
- Invited Professor of the Program of Management of the Order of Physicians, organized by the Faculty of Economics and Business Sciences of the Portuguese Catholic University of 2004 in Coimbra from the 1st edition in 2004 until its closure in 2006, being responsible for the discipline of "Quality Assessment in Health Units "(responsible Professor Miguel Gouveia).
- Invited Professor of the Training Program in Health Units Management, organized by the Faculty of Economic and Business Sciences of the Portuguese Catholic University for the Health Services of the Autonomous Region of Madeira (SESARAM) in 2011, being responsible for the discipline "Evaluation of Quality in Health Units "(responsible Professor António Henriques and Mestre Velez Roxo).
- Invited Professor of the Master's Degree in "Ethics" organized in 1999-2000 by the Faculty of Medicine of Lisbon (responsible Professor Lobo Antunes).



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- Guest Professor, Medical Economics and Research Center (MERCs), Sheffield, UK (2001).
- Invited lecturer at the Universidade Nova de Lisboa / National School of Public Health in the Course of Management of Health Units of 2004, having taught the discipline of "Clinical Epidemiology" (responsible Professor Correia de Campos).
- Collaborator of the Post Graduation in Stroke of the Superior School of Nursing S. Francisco das Misericórdias (2014) .-
- Accreditation as an instructor (since 2000) and as Director (since 2002) of the Fundamentals of Critical Care Support (FCCS) Course for Intensive Care Physicians and other health professionals from the Society of Critical Care Medicine (USA, USA). ). In this context I participated and organized several courses over the years.
- Accreditation as an instructor (since 2004) and as Director (since 2006) of the course CPEHE - External Hospital Emergency Planning Course, designed to teach planning, preparation and implementation of disaster plans.
- Accreditation as an instructor (since 2004) and as Director (since 2006) of the Fundamentals of Disaster Management (FDM) course for teaching basic principles (theoretical and practical) of Catastrophe Medicine, Society of Critical Care Medicine (USA, USA). In this context, I participated and organized several courses over the years, from 2006 to 2017, the last ones being in the Central Hospital of Lisbon Central within the framework of the publication of Dispatch no. 8669/2017, which constitutes the Commission for Response Planning in Health in the context of Critical and Exception Situations in the Algarve in the courses CPEHE - External Hospital Emergency Planning Course (which aims to explain how a plan and hospital contingency is elaborated), and FDM - Disaster Management Fundamental Course objective to review more diverse knowledge about the medicine of catastrophe), in the Region of Health of the Algarve (2017-2018).
- Director from 2008 to 2011 of the Intensive Medicine Courses organized by the Institute of Medical Education, Faculty of Biomedical Sciences of the Universidade Lusófona de Lisboa (Professor Dr. Matos Ferreira).
- Accreditation as an instructor and as Director (since 2010) of the VeryBASIC Course for Medical Education, organized in collaboration by the European Society of Intensive Care Medicine for BASIC collaboration, coordinated by the Chinese University of Hong Kong, Shatin. I was Director of the first Course held in Portugal in 2011, which took place at the Institute of Medical Education, Faculty of Biomedical Sciences of the Universidade Lusófona de Lisboa (Professor Dr. Matos Ferreira).
- Accreditation as an instructor and as Director (since 2010) of the BASIC Course for the teaching of Intensive Care Medicine to physicians and other health professionals, organized in collaboration by the European Society of Intensive Care Medicine for BASIC collaboration, coordinated by the Chinese University of Hong-Kong, Shatin. I collaborated in the organization of the first European course for the training of trainers (2011).
- Representative of the European Society of Intensive Care Medicine in the BASIC Collaboration and in the development of ATCIC (Advanced Training Courses in



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Intensive Care) courses aimed at the training of the intensivists in advanced Haemodynamic Monitoring "courses. I collaborated in the implementation of the courses of "Organization and Management of Intensive Care" and "Advanced Mechanical Ventilation" and I was one of the members who developed and implemented the "Acute Care Nephrology" and "Advanced Haemodynamic Monitoring" courses. A further 7 similar courses are planned at different stages of development.

- I was part of the group that wrote the ATCIC courses of "Advanced Hemodynamics" and "Nephrology in the critical patient"
- Member and presided over several Physicians Assessment Boards, both in the scope of training and progression in Medical Careers and in their provision, of all hospital medical career grades (from hospital assistant to Hospital Assistant Senior Graduate).
- I was a member of the Jury of the Master's Degree in Public Health by appointment of Mr. Professor Dr. M. Miranda Magalhães, Chairman of the Board of Directors of the Faculty of Medicine of Porto on 11/30/2001. In this test I performed the functions of discussant of the dissertation.
- I was a member of the Jury for the discussion of the reports of the research projects prepared by the students of the XXX Specialization Course in Hospital Administration by appointment of Professor Vasco Pinto dos Reis, Director of the Hospital Administration Course of the National School of Public Health of the University New Lisbon, 20/06/2002.
- President of the Jury of the EDIC II in Lisbon (UCINC) several times from 2013 to 2015
- I was a member of the jury for the evaluation of the Doctoral Dissertation in Medicine of the Faculty of Medicine of Porto by appointment by Professor Jorge Tavares in 2005. In this exam I performed the functions of discussant of the dissertation.
- Participation as Assistant Professor Volunteer and Coordinator of the Optional Curricular Unit of Urgency and Catastrophe Medicine of the 6th year of the Master's Degree in Medicine of the New University of Lisbon (2012-13, 2013-14, 2014-2015, 2015-2016 and 2016-2017)
- Participation as a guest contributor by the Regent of the Optional Trauma Curricular Unit, of the 6th year of the Integrated Master in Medicine of the Universidade Nova de Lisboa (2012 to 2017).
- Participation as invited guest by the regent of the Optional Trauma Curricular Unit, in the theoretical and practical component of the 6th year of the Integrated Master in Medicine of the Universidade Nova de Lisboa (2012 to -).
- Joint Regent with Professor Fernando Nolasco of the 1st International Postgraduate Course in Intensive Medicine. New University of, Portugal. 2014
- Joint Regent with Professor Fernando Nolasco of the 2nd International Postgraduate Course in Intensive Medicine. University of Lisbon. Lisbon, Portugal. 2016



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- Joint Regent with Professor Fernando Nolasco of the 3rd International Postgraduate Course in Intensive Medicine. University of Lisbon. Lisbon, Portugal. (starting January 2018)
- Hired as Assistant Professor Volunteer in the Clinical Medicine Area (2012-2015 and 2016-) at the Universidade Nova de Lisboa.



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## **5. ASSOCIATIVE ACTIVITY AND IN THE FRAMEWORK OF THE ORDER OF PHYSICIANS**

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- Founding member of the Intensive Care Studies Unit of the Portuguese Society of Internal Medicine (1992), of which I have been a member of the secretariat since its foundation.
- Member of the Portuguese Society of Intensive Care since 1990. Member of the Board since 1996, Vice-President of the Society from 1999 to 2005, President (triennium 2006-2008) and President of the General Assembly since 2009.
- Elected member of the Board of Directors of the College of Intensive Medicine of the Order of Physicians from 2002 to 2006).
- Elected President of the College of Intensive Medicine of the Order of Physicians of 2009-2012 and 2012 to 2016).
- Elected President of the European Board of Intensive Care Medicine (UEMS) (2009-2012).
- Member of the European Society of Intensive Care Medicine. President of Health Services Research and Outcome Section 2000-2001. Portuguese Representative in the Council (1999-2002); President of the European Society's Scientific Affairs Division (2002-2005). President-elect of the European Society of Intensive Care Medicine (2006-2008), President of the Society (2009-2011). Currently Past-President and member of the Senate for life.
- Elected member of the Council of the World Federation of Societies of Intensive and Critical Care Medicine (2001-2004 and 2005-2008).
- Member of the Spanish Society of Intensive Care Medicine and Coronary Units.
- Founding member and honorary member of the Serbian Society of Intensive Care Medicine.
- Honorary Member of the Brazilian Society of Intensive Care (AMIB)
- Honorary Member of the Pernambuco Intensive Care Society (AMIB)
- Honorary Member of the Portuguese Society of Intensive Care (SPCI)
- Member of the Association of Brazilian Intensive Medicine (AMIB).
- Member of the American Society of Critical Care Medicine (SCCM).



## 6. OTHER ELEMENTS OF PROFESSIONAL VALORIZATION

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- Appointed by the Minister of Health as a representative of intensive care in the Portuguese Transplant Organization (OPT) and later to the National Transplantation Council (from 2005 until its extinction).
- Member of the Scientific Board of the Sépsis Via Verde (Directorate General for Health, 2011).
- Performance of the functions of medical expert by appointment of the Physicians and the Ministry of Health in various processes and inquiries.
- Member of several Commissions of choice and the Information Technology Commission of the Central Lisbon Hospital Center
- Member of the team that developed the multisectoral procedure - TRC.131 - Limits to Therapeutic Intervention. CHLC, (Informative Circular 40 of January 28, 2016)
- Member of the team that developed the multisectoral procedure - REA.104 - Decision of Not Trying to Reanimate. CHLC, (Informative Circular No. 266 of June 22, 2015)
- Coordinator of the CHLC Catastrophe Commission (2008-2012 and 2012-2016) and integrating the same committee since 2017 (informative circular n° 210 of 03 June 2017)
- Member of the Jury of the Common insolvency procedure to fill a job in the category of senior assistant in internal medicine with profile in intensive medicine, special medical career or medical career - area of hospital exercise - opened by Notice No. 93 / 2015 / A (Diário da República, 2nd series - N.º 254 - December 30, 2015)
- I was a member of the Audit Committee of the Hospital of the Holy Spirit of Terceira Island by the Medical Association, January 24, 2015.
- Member of the Proof of Title, XIX Brazilian Congress of Intensive Medicine. Goiânia, 11/9/2014
- Appointed President of the Jury of the Recruitment Procedure for Intensive Care Medicine, to fill 14 jobs in the special medical career of the staff charts of hospitals opened by the notice Notice No. 7855-A / 2014 of the Central Administration of the Health System, IP and published in the DR 2nd series n° 128 of 07/07/2014
- Appointed Chairman (superior) of the Commission for the Integrated System for Performance Evaluation in Public Administration applicable to Medical Staff - Biennium 2013 / 2014- for the Intensive Care Medicine area (Informative Circular no. 432 of 07/11/2014 of CHLC CA )
- Commission for review of the CHLC Resuscitation Policy. (Informative Circular 221 of 7/31/2013)
- Commission of Physicians / SPCI "Indicators of Quality and Safety in the critical patient". January 2013.



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- Chairman of the Jury of the competition for qualification as a consultant in the medical career of the Intensive Care Hospital opened by Notice n° 848/2005, published in the 2nd Series of the Diário da República, n° 21, dated January 31, 2005
- Appointed Coordinator of the Neurocritical Intensive Care Unit of CHLC - UCI NC (Informative Circular No. 218 of June 4, 2012)
- CHLC Representation at the Meeting on Quality Indicators (Health Regulatory Entity). Porto, 04/30/2012
- ARLVT Representation at the Meeting of the Municipal Civil Protection Commission. Lisbon, 04/17/2012
- Member of the Working Group that assessed the Installed Capacity and National Needs of ICU Beds in Mainland Portugal, created by Order No. 4320/2013 of 25 March
- Member of the National Examination Board of the Brazilian Society of Intensive Care (AMIB) in 2017)
- Nominated Coordinator of Unidade de Cuidados Intensivos Polivalente Neurocríticos do CHLC – UCI NC (Informative Circular n° 536. Lisbon, 30 November 2017)
- Member of the team that developed the multisectoral procedure - REA.105 - Decision of Not Trying to Reanimate. CHLC, (Informative Circular No3 of January 2018)

## 07. AWARDS AND PRIZES

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In the course of my scientific activity I was awarded several prizes, of which I highlight:

- The prize for the best poster presented at the 9th European Congress of Intensive Medicine (Glasgow, 1996), with the theme "Nine Equivalents of Nursing Manpower use Score (NEMS). Validation on the EURICUS-I database "
- I was also publicly praised by the Board of Directors of the Santo António dos Capuchos / Desterro Hospital on the occasion of my PhD in Medicine, published in order 4 of January 16, 1998.
- The award for the best free communication presented at the Annual Symposium of the Portuguese Society of Intensive Care / Intensive Care Days of Hospital de S. Pedro (Vila Real, 2001) with the communication "Mortality at 28 days in adult respiratory distress syndrome primary and secondary "
- The Gold Medal of the European Society of Intensive Care Medicine (ESICM) for my "scientific contributions and exemplary commitment to the cause of Intensive Care Medicine"
- The European Society of Intensive Care Award for the best research project 2017
- I received from the hands of His Excellency the President of the Republic, Professor Marcelo Rebelo de Sousa, the honorary Member of the Order of the Infante D. Henrique assigned to the service that I coordinate on September 5, 2017.



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## **APPENDIX A. PUBLISHED BOOKS**

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1. Moreno, R. *Gestão e Organização em Medicina Intensiva*. Lisboa: Permanyer Portugal, 2000
2. Kuhlen R, Moreno R, Ranieri M, Rhodes A, eds. *25 Years of Progress and Innovation in Intensive Care Medicine*. Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft, 2007
3. Kuhlen R, Moreno R, Ranieri M, Rhodes A, eds. *Controversies in Intensive Care Medicine*. Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft, 2008
4. Chiche J-D, Moreno R, Putensen C, Rhodes A, eds. *Patient Safety and Quality of Care in Intensive Care Medicine*. Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft, 2009
5. Flaaten H, Moreno R, Putensen C, Rhodes A, eds. *Organisation and Management of Intensive Care*. Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft, 2010

## APPENDIX B. PUBLISHED ARTICLES

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1. Sakr Y, Ferrer R, Reinhart K, Beale R, Rhodes A, Moreno R, Timsit JF, Brochard L, Thompson BT, Rezende E, Chiche JD, IC-GLOSSARI Investigators<sup>15</sup> and ESICM Trials Group. Correction to: The Intensive Care Global Study on Severe Acute Respiratory Infection (IC - GLOSSARI): a multicenter, multinational, 14 - day inception cohort study. *Intensive Care Medicine* 2018;44.
2. Vincent J-L, Lefrant J-Y, Kotfis K, Nanchal R, IMartin-Loeches g, Wittebole X, Sakka SG, Pickkers P, Moreno R, Sakr Y, on behalf of the ICON and SOAP investigators. European ICU patients 10 years apart: sicker, similar frequency of sepsis, better outcomes. *Intensive Care Medicine* 2018. (*in press*)
3. Abbott TEF, Ahmad T, Phull MK, Fowler AJ, Hewson R, Biccard BM, Chew MS, Gillies M, Pearse RM, International Surgical Outcomes Study (ISOS) group. The surgical safety checklist and patient outcomes after surgery: a prospective observational cohort study, systematic review and meta-analysis. *British Journal of Anaesthesia* 2018;120:146-55.
4. Moreno R. A Medicina Intensiva. In: Barros Veloso AJ, ed. *Médicos e Sociedade. Para uma História da Medicina em Portugal no século XX*. 1<sup>a</sup> ed. Lisboa: By the BOOK, 2017:655-67.
5. Guidet B, Flaatten H, Boumendil A, Morandi A, Andersen FH, Artigas A, Bertolini G, Cecconi M, Christensen S, Faraldi L, Fjølner J, Jung C, Marsh B, Moreno R, Oeyen S, Öhman CA, Pinto BB, Soliman IW, Szczeklik W, Valentin A, Watson X, Zafeiridis T, De Lange DW. Correction to: Withholding or withdrawing of life-sustaining therapy in older adults ( $\geq 80$  years) admitted to the intensive care unit. *Intensive Care Medicine* 2018;44:1598-601.
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7. Guidet B, De Lange WD, Christensen C, Moreno R, Fjølner J, Dumas G, Flaatten H. Attitudes of physicians towards the care of critically ill elderly patients – a European survey. *Acta Anaesthesiologica Scandinavica* 2018. Doi: 10.1111/aas.13021
8. Moreno RP NJ, AP. Is APACHE II a useful tool for clinical research? [O APACHE II é uma ferramenta útil para pesquisa clínica?]. *Revista Brasileira de Terapia Intensiva [Brazilian Journal of Intensive Care]* 2017;29:264-267



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9. Tonella RM, Ratti LDSR, Delazari LEB, Junior CF, Silva PLD, Herran ARDS, Faez DCDS, Saad IAB, Figueiredo LCD, Moreno R, Dragosvac D, Falcao ALE. Inspiratory Muscle Training in the Intensive Care Unit: A New Perspective. *Journal of Clinical Medical Research* 2017;9:929-34.
10. Flaatten H, De Lange DW, Morandi A, Andersen F, Artigas A, Bertolini G, Cecconi M, Christensen S, Feraldi L, Fjölner J, Jung C, Marsh B, Moreno R, Bollen Pinto B, Szczeklik W, Valentin A, Watson X, Zaferidis T, Guidet B. On behalf of the VIP1 study group. The impact of frailty on ICU and 30 day mortality and level of care in the very old ICU patients ( $\geq 80$  years). *Intensive Care Medicine* 2017. doi 10.1007/s00134-017-4940-8
11. Lombardi R, Nin N, Peñuelas O, Ferreiro A, Rios F, Marin MC, Raymondos K, Lorente JA, Koh Y, Hurtado J, Gonzalez M, Abroug F, Jibaja M, Arabi Y, Moreno R, Matamis D, Anzueto A, Esteban A, VENTILA Group. Acute Kidney Injury in Mechanically Ventilated Patients: The Risk Factor Profile Depends on the Timing of Aki Onset. *Shock* 2017;48:411-7.
12. Weigl W, Adamski J, Gorynski P, Kanski A, Hultstrom M (2017) Mortality rate is higher in Polish intensive care units than in other European countries. *Intensive Care Med.* *Intensive Care Medicine* 2017. (on-line first) doi:[10.1007/s00134-017-4804-2](https://doi.org/10.1007/s00134-017-4804-2)
13. Kahan BC, Koulenti D, Arvaniti K, Beavis V, Campbell D, Chan M, Moreno R, Pearse RM, International Surgical Outcomes Study (ISOS) group. Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries. *Intensive Care Medicine* 2017;43:971-9.
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15. Flaatten H, de Lange DW, Artigas A, Bin D, Moreno R, Christensen S, Joynt GM, Bagshaw SM, Sprung CL, Benoit D, Soares M, Guidet B. The status of intensive care medicine research and a future agenda for very old patients in the ICU. *Intensive Care Medicine* 2017;1-10.
16. Tejerina E, Pelosi P, Muriel A, Peñuelas O, Sutherasan Y, Frutos-Vivar F, Nin N, Davies AR, Rios F, Violi DA, Raymondos K, Hurtado J, González M, Du B, Amin P, Maggiore SM, Thille AW, Soares MA, Jibaja M, Villagomez AJ, Kuiper MA, Koh Y, Moreno RP, Zeggwagh AA, Matamis D, Anzueto A, Ferguson ND, Esteban A. Association between ventilatory settings and development of acute respiratory distress syndrome in mechanically ventilated patients due to brain injury. *Journal of*



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Critical Care 2017;38:341-5.

17. Nin N, Muriel A, Peñuelas O, Brochard L, Lorente JA, Ferguson ND, Raymondos K, Ríos F, Violi DA, Thille AW, González M, Villagomez AJ, Hurtado J, Davies AR, Du B, Maggiore SM, Soto L, D'Empaire G, Matamis D, Abroug F, Moreno RP, Soares MA, Arabi Y, Sandi F, Jibaja M, Amin P, Koh Y, Kuiper MA, Bülow HH, Zeggwagh AA, Anzueto A, Sznajder JI, Esteban A; VENTILA Group. Severe hypercapnia and outcome of mechanically ventilated patients with moderate or severe acute respiratory distress syndrome. *Intensive Care Med.* 2017 Feb;43(2):200-208. doi: 10.1007/s00134-016-4611-1.
18. Biccard BM, Madiba TE, South African Surgical Outcomes Study Investigators. The South African Surgical Outcomes Study: A 7-day prospective observational cohort study. *South African Medical Journal* 2015;105:465-75.
19. Rhodes A, Evans LE, Alhazzani W, Levy MM, Antonelli M, Ferrer R, Kumar A, Sevransky JE, Sprung CL, Nunnally ME, Rochweg B, Rubenfeld GD, Angus DC, Annane D, Beale RJ, Bellingham GJ, Bernard GR, Chiche J-D, Coopersmith C, De Backer DP, French CJ, Fujishima S, Gerlach H, Hidalgo JL, Hollenberg SM, Jones AE, Karnad DR, Kleinpell RM, Koh Y, Lisboa TC, Machado FR, Marini JJ, Marshall JC, Mazuski JE, McIntyre LA, McLean AS, Mehta S, Moreno RP, Myburgh J, Navalesi P, Nishida O, Osborn TM, Perner A, Plunkett CM, Ranieri M, Schorr CA, Seckel MA, Seymour CW, Shieh L, Shukri KA, Simpson SQ, Singer M, Thompson BT, Townsend SR, Van der Poll T, Vincent J-L, Wiersinga WJ, Zimmerman JL, Dellinger RP. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. *Intensive Care Medicine* 2016; Publish Ahead of Print.
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21. Manuel J, Moreno R P. Severity scores, improved care? Quality management in intensive care. A practical guide. 2016, 127-133 Guidet B, Valentin A, Flaatten H. Cambridge University press. ISBN: 978-I-107-50386-1



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25. Moreno R, Nassar Junior AP, Afonso S, Metnitz P. Sistemas de pontuação e resultado de predição. (4th ed.) São Paulo: Editora Atheneu, 2016 (Knobel E, ed. Condutas no paciente grave);
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27. Moreno RP. Scoring Systems and Outcome Prediction. In: Springer, ed. Surgical Intensive Care Medicine. 3ª ed. USA: Springer, 2016:817-24. (O'Donnell JM, Nácúl FE, eds.
28. Rui Moreno in Organ Failure Scores. Oxford Textbook of Critical Care (2 ed.). Edited by (Andrew Webb, Derek Angus, Simon Finfer, Luciano Gattinoni, and Mervyn Singer). eISBN: 9780191810398. DOI: 10.1093/med/9780199600830.003.0030. 2016
29. The International Surgical Outcomes Study group. Global patient outcomes after elective surgery: prospective cohort study in 27 low-, middle- and high-income countries. British Journal of Anaesthesia 2016;117:601–9.
30. Vincent JL, Takala J, Moreno RP, Sakr Y, Marshall JC. Agitation-Sedation Scale Should Not Be Used to Evaluate Neurologic Function. Critical Care Medicine 2016;44:e450.
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## APPENDIX C. PUBLISHED SUMMARIES

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