

Gisela Claudia Marques Lima

Anaesthesiologist MD/ MSc, PHD candidate

Portuguese, English

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PROFESSIONAL EXPERIENCE

Invited Assistant - University Teacher

Basic Notions of Anaesthesiology - Curricular Unit of the Integrated Master's Degree in Medicine

Faculty of Medicine of the University of Coimbra (FMUC)

Mar 2023 – present

Research Team Member

Coimbra Institute for Biomedical Imaging and Translational Research (Cibit)

Jan 2020 – present

Anaesthesiologist

CUF Coimbra Hospital (Coimbra, Portugal)

Sep 2019 – present

Coimbra University Hospitals, CHUC (Coimbra, Portugal)

Jan 2019 – Ago 2019

- **Areas of interest:** pharmacology, physiology, pain, critical care, patient security and quality improvement
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EDUCATION AND PROFESSIONAL DEVELOPMENT

Doctoral Programme in Health Sciences, Research Proposal classification 19/20

(Coimbra, Portugal)

Faculty of Medicine of the University of Coimbra (FMUC)

Sep 2017 – present

- **Research project:** "Ayahuasca induced neural correlates and the reward system"

Anaesthesiology and Reanimation Residency, classification 19/20 (Coimbra, Portugal)

Coimbra University Hospitals (CHUC)

Jan 2014 – Dec 2018

Harvard Clinical Scholars Research Training – United Kingdom (CSRT-UK)

Harvard Medical School,

Mar 2017 - Dec 2017

Integrated Master's Degree in Medicine, classification 16/20 (Lisbon, Portugal)

Nova Medical School – Faculty of Medicine,

Oct 2006 – Jul 2012

PUBLICATIONS

Peer Review Journal Publications

- Castelhana J*, Lima G*, Teixeira M, Soares C, Pais M, Castelo-Branco M. The Effects of Tryptamine Psychedelics in the Brain: A meta-Analysis of Functional and Review of Molecular Imaging Studies. *Front Pharmacol.* 2021;12:739053. doi:10.3389/fphar.2021.739053 *equal contribution
- Lima G., Cuervo M. 2019. Cardiopulmonary bypass mechanism and neurologic events in cardiac anaesthesia. *Revista da Sociedade Portuguesa de Anestesiologia.* Vol.28-Nº1

- Lima G., Órfão R. 2018. Anaesthesia for adult major spine surgery. *Revista da Sociedade Portuguesa de Anestesiologia*. Vol.27-Nº4
- Rêgo S., Lima G., Órfão R., Quadros L., Ferreira A. 2018. Organization of the Acute Pain Units: State of Art in Portugal – *Revista da Sociedade Portuguesa de Anestesiologia*. Vol.27-Nº1
- Lima G., Viana J., Lapa T., Silverio C. 2015. Consciousness, Anaesthesiology and Pain - Is Medicine Changing? *Experimental Pathology and Health Sciences*. Portuguese Experimental Pathology Association, 7 (2): 5-6.

Publications and Oral Presentations in National and International Congresses

- Soares C, Pais M, Lima G, Teixeira M, Cabral C, Castelo-Branco M. Effect of the psychedelic N,N-Dimethyltryptamine on brain connectivity and behavior. Poster presentation at the 17th Encontro Nacional APPE, Lisbon, 2023.
- Teixeira M., Lima G., Pais M., Soares C., Cabral C., & Castelo-Branco M. Neural mechanisms of altered visual perception induced by inhaled-N, N-Dimethyltryptamine (DMT). Poster Session at the 1st Annual Meeting of CIBIT, Coimbra, 2022.
- Soares, C., Pais, ML., Lima, G., Teixeira, M., Cabral C. and Castelo-Branco, M. N,N-dimethyltryptamine modulates brain connectivity within social cognition networks. Poster presentation at the 1st Annual Meeting of CIBIT, Coimbra, 2022.
- Pais M., Soares C., Teixeira M., Lima G., Castelo-Branco M. Reorganization of visual population receptive fields along eccentricity in response to an inhaled psychedelic tryptamine. Poster presentation at the Federation of European Neuroscience Societies Congress (FENS), Paris, 2022
- Marta LP, Carla S, Marta T, Gisela L, Célia C, Miguel CB. A fast effect of tryptamine psychedelics on visual cortical population receptive fields. Poster presentation at the Federation of European Neuroscience Societies Congress (FENS), Paris, 2022
- Teixeira M., Pais M., Soares C., Lima G., Machado S., Castelo-Branco M. The neural basis for visual effects induced by inhaled psychedelics: DMT leads to activation of extrastriate cortex concomitantly with behavioral effects. Poster presentation at the Society for Neuroscience Congress, Neuroscience, 2021
- Lima G., Husson N., Rego S., Figueiredo E., Paulo L., Martins M. Consciousness, and pain – What do technological revolutions bring to clinical practice? Poster presentation at 9th World Congress of The World Institute of Pain, Dublin, 2018
- Husson N., Rodrigues C., Oliveira S., Lima G., Anastacio M. Infraclavicular brachial plexus block with drug infusion analgesia and capsaicin patches for treatment of CRPS type II after carpal tunnel surgery: a case report. Poster presentation at 9th World Congress of The World Institute of Pain, Dublin, 2018
- Silva E., Lima G., Ferreira C., Rêgo S., Marques M., Tourais I. The impact of mechanical ventilation in the burn patient prognosis. Poster presentation at European Society of Anaesthesiology, Geneva, 2017
- Silva E., Lima G., Ferreira C., Rêgo S., Marques M., Tourais I. Are the type of burns and of accident prognostic in burn patients? Poster presentation at European Society of Anaesthesiology, Geneva, 2017
- Paulo L., Silva E., Lima G., Costa G. Protocolo of cuff leak test in thyroid surgery. Poster presentation at European Society of Anaesthesiology, Geneva, 2017
- Silva E., Lima G., Ferreira C., Rêgo S., Marques M., Martins M. Abbreviated Burn Severity Index in a reference burn care unit – a 3-year experience. Poster presentation at European Society of Anaesthesiology, Geneva, 2017
- Rêgo S., Lima G., Órfão R., Quadros L., Ferreira A. State of art in Portugal – Organization of Acute Pain Units, National Inquiry. Opening of Brainstorming Session at Portuguese Anaesthesiology Society Congress, Figueira da Foz, 2016
- Figueiredo E., Paulo L., Lima G., Rêgo S., Ferreira C., Oliveira D. Epidermolysis bullosa – “no touch” principle and minimization of trauma. Poster presentation at Anaesthesiology Conference of Portugal Center, Viseu, 2016
- Rêgo S., Oliveira D., Lima G., Figueiredo E., Paulo L, Neves S. Anaesthesia for pediatric renal transplant: a five-year review. Poster presentation at Anaesthesiology Conference of Portugal Center, Viseu, 2016
- Lima G., Lapa T., Rêgo S., Figueiredo E., Paulo L., Rodrigues C. Anaesthesia and Consciousness – Promising Field for Future Research, Poster presentation at European Society of Anaesthesiology, London, 2016

- C. Retroz-Marques, Lima G., Rêgo S. Controversies in a successful outcome of a low back pain – case report with an unlikely aetiology. Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Silva E., Lima G., Paulo L., Filipe C., Bernardino A. Effect of intravenous dexamethasone in spinal blocks. Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Rêgo S., Lima G., Mesquita I., Silva E., Paulo L., Gomes P. When epidural blood-patch doesn't work – what comes next? Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Rêgo S., Lima G., Mota S., Fonseca J., Alves C., Carvalhas J. C-section – when regional is not an option. Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Paulo L., Silva E., Lima G., Rêgo S., Costa G. Subdural block – na anaesthetic challenge. Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Paulo L., Silva E., Rêgo S., Lima G., Mesquita I., Costa G. Epidural technique in Léri-Weill dyschondrosteosis. Poster presentation at European Society of Regional Anaesthesia and Pain Therapy, Maastricht, 2016
 - Lima G., Viana J., Lapa T., Silverio C. Consciousness, Anaesthesiology and Pain – Is Medicine Changing? Oral presentation at International Symposium on Experimental Techniques, Coimbra, 2015
 - Figueiredo E., Lima G., Impact of the mechanism of injury in the mortality of the burned patient. Poster presentation at National Congress of the burned patient, Tróia, 2015
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PRESENTATIONS

Coimbra Institute for Biomedical Imaging and Translational Medicine, Data Club:

- Spiritual States Induced by Ayahuasca and the Involvement of the Reward System, 2021

Department of Anaesthesiology Reunion, Coimbra University Hospital Center:

- Anaesthesia for the newborn, 2016
 - Dexmedetomidine – point of situation, 2016
 - Fiberoptic intubation with the awake patient, 2015
 - A window on the parasympathetic tone and nociception in anaesthesia, 2015
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RELEVANT COURSES

- II Mechanical Ventilation in the Critical Patient Course. Coimbra Biomedical simulation Center, 2018. Approved
- Leadership and Management: Personal Effectiveness. The Royal College of Anaesthetists, 2018.
- Introduction to Leadership and Management: The Essential. The Royal College of Anaesthetists, 2018.
- Obstetric Emergencies Course. Coimbra Biomedical simulation Center, 2018.
- Masterclass to Share Best Practices in Prone Positioning, Luz Hospital, 2018.
- Advanced Life Support. Coimbra Biomedical simulation Center, 2018. Approved
- Mechanical Ventilation Course. Portuguese Society of Anaesthesiology, 2016. Approved.
- Clinical Management of Massive Haemorrhage Course. Coimbra Biomedical simulation Center, 2016. Approved
- Sepsis and severe infection for physicians. Reanima, 2016. Approved
- Advanced Simulation Instructor Course. Coimbra Biomedical simulation Center, 2016.
- Science with Wisdom. Introduction to research methods in Medical Sciences Course. Coimbra Biomedical simulation Center, 2016.
- Difficult airway Course. Portuguese Society of Anaesthesiology, 2015. Approved.
- XI Theoretical-Practical Course in Difficult Airway. Coimbra Biomedical simulation Center, 2016. Approved
- Inhalational anaesthetics Course. Coimbra Biomedical simulation Center, 2015. Approved.
- Definitive Trauma Care, Anaesthesia to major trauma and damage control care. International Association for Trauma Surgery and Intensive Care, 2015. Approved.

- Airway Ultrasound Workshop. Portuguese Society of Anaesthesiology, 2015.
 - Tromboelastometry Workshop. Anaesthesiology Conference of Portugal Center, 2015.
 - Vascular access Ultrasound Workshop. Anaesthesiology Conference of Portugal Center, 2015.
 - Starch based fluids in clinical practice. Coimbra Biomedical simulation Center, 2015.
 - National Pedagogical plan – Module II. Coimbra Biomedical simulation Center, 2015.
 - Post-graduation of Anaesthesiology Fundamentals. Faculty of Medicine of the University of Porto. 2014.
- Approved 18/20.
- National Pedagogical plan – Module I. Coimbra Biomedical simulation Center, 2014
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TRAINER/ TEACHER

- Theoretical-Practical Session on non-conventional methods of post-operative analgesia. CHUC, 2018
 - Types of clinical study designs, Coimbra Biomedical simulation Center, 2018
 - From the idea to the publication of a scientific article. Coimbra Biomedical simulation Center, 2018
 - Critical analysis of a scientific article. Coimbra Biomedical simulation Center, 2018
 - Local Anaesthetic Agents. Anaesthesiology Introduction Course. CHUC, 2015
 - Analgesia Nociception Index (ANI) Workshop. Portuguese Anaesthesiology Society Congress. 2016
 - Acute pain and postoperative pain management. CHUC Residency Week. 2016 and 2017
 - Basic Life Support, administration of vaccines and injectable drugs for pharmacists. Coimbra Biomedical simulation Center, 2015 & 2017
 - Intravenous Anaesthetic Agents. Anaesthesiology Introduction Course. CHUC, 2015
 - Anesthesia management of the burn patient, CHUC, 2014
 - Anesthesia management for balneotherapy of the burn patient, CHUC, 2014
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MANAGEMENT SKILLS

- Collaborator in the implementation of the Level 2 Unit at CUF Coimbra Hospital, 2020
 - Collaborator in the organization of the European congress of the Society in Europe for Simulation Applied to Medicine, 2016
 - Collaborator in the organization of the national congress of the Portuguese Society of Simulation Applied to Medicine, 2015
 - Collaborator in the organization of the European congress Euroanaesthesia: Perioperative Medicine in Portugal, 2015
 - Collaborator in the organization of the national course: Difficult airway course, Portuguese Society of Anaesthesiology, 2015
 - Elaboration of 8 Anaesthesiology Department protocols necessary for the Health Accreditation Process of the General Hospital Ambulatory Surgery Unit – CHUC, 2015
 - FCML's Department of International Relations coordinator – Clinical exchanges. International Federation of Medical Students Association. 2009 – 2010
 - FCML's Medical Student's Association board member, 2009 – 2010
 - Social Action Group of the New University of Lisbon (GASNova) board member, 2007 – 2008.
 - Non-Governmental Development Organization (NGDO) which develops national and international volunteer projects in Portuguese Speaking Countries in Africa (P.A.L.O.P.). <http://www.gasnova.org>
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HUMANITARIAN MISSION

- **Cidade da Beira, Bairro Alto da Manga, Mozambique (GASNova)** Worked at Nhaconjo Local Health Center. In Manga Orphanage proactively sought out the possibility to establish 1 library. In daily situations: effective problem solver with creative solutions inside the group. Successful implementation of the Mission program and budget. Preparation Part-time (8 months) and Mission Full-time (2 months). 2006 - 2007