

Esther León Castelao

CCRN, MSc, MCC, MHA, PhD(c)

Simulation, Clinical Debriefing, Critical Care.

Short CV

PhDc, Master in Critical Care (MCC), Master of Science (MSc), Master in Healthcare Administration (MHA), Critical Care and Prehospital Registered Nurse (CCRN). Lead of Research, Development and Innovation at Clinical Simulation Laboratory of the University of Barcelona. Executive Committee Member of the Society for Simulation in Europe (SESAM). Editorial Board Member of the British Medical Journal Simulation and Technology Enhanced Learning (BMJ-STEL). Former President of the Spanish Society for Simulation and Patient Safety (SESSEP). Executive Committee Member and Divisional Director for Spain, Portugal and Latinamerica of the TALK Foundation for Clinical Debriefing. Former Co-chair of Affiliations Committee and member of Strategy Committee of Society of Healthcare Simulation (SSH). Director of Master of Health Professions Education (MHPE) and the Simulation and Patient Safety Fellowship at University of Barcelona. She has been Marie-Curie Fellow in Cardiff and Vale University Health Board in Wales, United Kingdom. She is a speaker in numerous national and international conferences.

Who I am?

I am a restless, creative and very curious person. My internal driver has always been to understand the world around me. "Why" has always been the question that moves me forward.

I consider myself a sincere, honest and committed person. Since I have memories, I have always loved helping others, learning and talking. Based on these pillars my passion for education has been created and later on my passion for debriefing and constructivist and reflective learning which I use to helping others to decipher the paths of knowledge.

Seving the community is one of great passions along with simulation. Since high school, then university and finally in the professional world I have always been linked to a representative board some kind. My first step into the simulation societies was in 2012 in the Spanish Society of Simulation (SESSEP) as secretary, then VP and in 2017 I was elected president. After that I have had a long trajectory through SESSEP, SSH and SESAM and now as well in the TALK Foundation.

I am dyslexic which for many years meant great problems especially when it came to reading, writing and learning languages; however, the consequences of having to understand the world in a different way have become one of my great advantages. I have parallel, critical thinking and a different way to analyse problems that allows me to understand situations from many angles. Adding to the last point, I am a truly millennial, and technology-aware person.

Thanks to the opportunity I have had to work with great referents in simulation field, my qualities and vulnerabilities and the experience of recent years, I have indirectly developed leadership and management capacity for small, medium and large education bodies and initiatives.

Education

- 2019-act Ph.Dc. "Validation of TEAM "Team Emergency Assessment Measurement" into spanish. Directors: JL Medina. J Bañeras. Tutor: P Castro. Faculty of Medicine and Healthcare Sciences. University of Barcelona. Barcelona. Spain.
- 2017-2019 Fellowship Marie-Curie Sklodowska. Early-stage researcher 6 months. TALK Horizon 2020-MSCA-RISE (n°734753) Grant. Cardiff and Vale University Healthboard. Cardiff. UK.
- 2012-2014 Master of Hospital & Healthcare Management. Faculty of Medicine and Healthcare Sciences. University of Barcelona. 60ECTS. Barcelona. Spain.
- 2008-2010 Master of Critical Care and Emergencies. Faculty of Medicine and Healthcare Sciences. University of Barcelona. 90 ECTS. Barcelona. Spain.
- 2007-2009 Master of Nursing Science. University Complutense. 120 ECTS. Madrid. Spain
- 2007-2009 Adaptation to Bologna "Graduate" University of Leon. 60 ECTS. Leon. Spain.
- 2004-2007 Bachelor of Science in Nursing. Campus of Ponferrada. 236 credits. University of Leon. Spain.
- 2012-2016 Clinical Postgraduate Programs
- Postgraduate Program: Expeditions and Mountain Medicine. Certified by: UIAA, CISA-IKAR ISMM. University of Barcelona. 2010
 - Postgraduate Program: Aeronautic Medicine and HEMS missions. University of Barcelona. 2012

Simulation Accreditations

Simulation Instructor

- 2018-2020 [EuSIM accreditation process](#) for the EuSIM courses at the University of Barcelona.
- 2012-2019 [Coordinator and facilitator of TeamSTEPPS courses](#)
- 7 Editions.
 - We have the AHRQ Agency for Healthcare Research and Quality authorisation for teaching TeamSTEPPS in Spain.
- 2016 [Advanced Simulation Instructor Harvard CMS-HVV](#). Hospital Virtual de Valdecilla (HVV) - Center Medical Simulation (CMS) Harvard. Santander, Spain.
- 2013 [Advanced Simulation Instructor EuSIM \(Level 2\)](#). SAFER. Stavanger. Norway.
- 2013 [Basic Simulation Instructor Harvard CMS-HVV](#). "Simulation as a learning tool" Hospital Virtual de Valdecilla (HVV) - Center Medical Simulation (CMS) Harvard. Santander, Spain.
- 2011 [Basic Simulation Instructor EuSIM \(Level 1\)](#). METS. Netherlands.

Other simulation accreditations

- 2016 [ESMEA Essential Skills in Medical Education Assessment](#). Faculty: Kathy Boursicot, T Roberts, etc. Association for Medical Education in Europe. AMEE. Barcelona. Spain.
- 2016 [TeamSTEPPS Implementation](#). Implementation sessions: TeamSTEPPS David Baker Ad-hoc Course. University of Barcelona. Spain.
- 2015 [Simulation Debriefing Course: Reframing Strategies for Tough Situations](#). Faculty: C Park, M Stiegler. New Orleans. USA.
- 2015 [Simulation Debriefing Course: iTrust Debriefing](#). Faculty: David Grant. Poland.
- 2014 [Simulation Debriefing Course: PEARLS](#). Faculty: Walter Eppich y Adam Cheng. San Francisco. USA
- 2014 [Simulation Evaluation Course: OSCE](#). Faculty: Dr. Scalesse. Paris. France

Clinical Accreditations

Instructor, director or coordinator Accreditations

2012-2020 Director Courses: Society of Critical Care Medicine (SCCM).

- Fundamental Critical Care Support (FCCS) 2012-2019
- Fundamental Disaster Management (FDM) 2012-2019

2012-2019 Coordinator Courses: Society of Critical Care Medicine. (SCCM).

- 32 editions. Fundamental Critical Care Support (FCCS) 2012-2019
- 6 editions. Fundamental Disaster Management (FDM) 2012-2019
- 2 editions. Fund Critical Care Sup Tropical Diseases (FCCSTD) 18-19
- 3 editions. Fundamental Critical Care Support Paediatrics (FCCSP) 2018-2019
- 2 editions. Multiprofessional Critical Care Review (MCCR) 2018-2019
- 3 editions. Critical Care Ultrasound (CCU) 2018-2019

2012-2019 Instructor Courses: Society of Critical Care Medicine. (SCCM).

- 32 editions. Fundamental Critical Care Support (FCCS) 2012-2019
- 6 editions. Fundamental Disaster Management (FDM) 2012-2019
- 1 ed. Fund Critical Care Support Tropical Diseases (FCCSTD) 2018-2019
- 2 editions. Fundamental Critical Care Support Paediatrics (FCCSP) 2018-2019
- 2 editions. Multiprofessional Critical Care Review (MCCR) 2018-2019

2008-2020 Instructor - Life Support different accreditation bodies. SEMICYUC (BLS, ILS, ALS, ATLS), CCR (BLS, ILS*, ALS*, GIC) and ERC (BLS, ILS*, ALS*) *Accreditation in process. AHA: PALS. Director: CCR (BLS).

Provider Accreditations

2008-2020 Life Support.

- Basic Life Support and AED (Semicyuc, CCR)
- Advanced Life Support (Semicyuc, CCR, AHA)
- Advanced Trauma Life Support (CCR)
- Paediatric Advanced Life Support (CCR, AHA)

2012-2019 Society of Critical Care Medicine. (SCCM).

- Fundamental Critical Care Support (FCCS)
- Fundamental Disaster Management (FDM)
- Fundamental Critical Care Support Tropical Diseases (FCCSTD)
- Fundamental Critical Care Support Pediatrics (FCCSP)
- Multiprofessional Critical Care Review (MCCR)

2012 Windfocus. Ultrasound BL1P.

2008-2020 Multiple courses on continuous education in critical care, management, etc.

Education Profile

University of Barcelona. Faculty of Medicine and Healthcare Sciences (FMCS).

2019 – act Innovator Consultant RIMDA. FMCS.

RIMDA - Projecte institucional de foment de la qualitat docent. Faculty of Medicine and Healthcare Sciences. In the Simulation Field Dr. JM Nicolás.

The university rectorate has developed a program for spreading educational innovation initiatives all over the university. It is based on a mentorship program where an expert in an educational innovation field (in my case Simulation) is the mentor of some professors of his own School, helping to implement the simulation on their subjects, and measuring the results. I have started to mentorship 5 colleagues with Dr. Nicolás as referent of simulation.

2017 – act Director of Education Postgraduate Programmes FMCS

2017-act Director of Master of Health Professions Education. 65 ECTS. Co-director with Dr.Palés, Dra.Nolla, Dr.Medina. Web: <https://www.ub.edu/mecs/master/>

2017-act Director of Simulation and Patient Safety Fellowship. 60ECTS. Joint programme with Hospital Sant Joan de Deu, Campus Docent Sant Joan de Deu, Facultat de Educació. Web: <https://www.ub.edu/mecs/fellow/>

2017-act Director of Educational Postgraduate Programmes

- Expert: Curriculum Design in the Health Sciences.15 ECTS.
- Expert: Innovation: Simulation, E-learning & Gamification. 15 ECTS.
- Expert: Evaluation in Medical Education. 15ECTS.
- Expert: Research in Medical Education. 15ECTS.
- Expert: Simulation y Seguridad del Paciente. 15ECTS.
- Web: <https://www.ub.edu/mecs/experto/>

2018 – act. Leader of Innovation Research and Development of Clinical Simulation Lab

2017-act Coordinator of TALK Marie Curie RISE in UB. FMCS.

Grant awarded: Horizon 2020 – Marie Slodowska Curie Actions -RISE 2016 Grant by the European Commission under project number: 734753. TALK Debriefing. Web: <http://www.talkdebrief.org> IP for UB is Dr.JM Nicolás. €274,500.00. 1 June 2017. Period: 36 meses (+ extension). Web: <https://www.talkdebrief.org/>

- COORDINATOR - CARDIFF AND VALE UNIVERSITY HEALTH BOARD
- BENEFICIARY - UNIVERSITAT DE BARCELONA – UB IP Dr.JM Nicolás.
- BENEFICIARY - HOSPITAL CLINIC DE BARCELONA
- BENEFICIARY- CARDIFF UNIVERSITY - CARDIFF UNIVERSITY Terminated
- BENEFICIARY- HELSE STAVANGER HF - STAVANGER UNIVERSITETSSJUKEHUS

I had different roles:

- 2016. Grant proposal to the European Commission with Dr.Navarro
- 2017. Negotiation of the Consortium Agreement.
- 2017-act. Member of Executive Board, representing UB.
- 2017-act. Member of Strategy Steering Board, representing UB.
- 2017-act. Member of Supervisory Board, representing UB.
- 2017-act Strategy Lead for Spain.

- Research co-designer, and researcher in Cardiff and Barcelona.
- Co-organizer of the kickoff meeting (2017, Cardiff), international conference and audit of EC (2018, Cardiff), speaker in Norway International Conference (2019, Stavanger).
- Organizer of year 3 International Conference in Barcelona May 2020. Postponed Sep 2021.
- Fellows mentor.
 - I have mentor 13 early stage researchers during 14 months coming from Cardiff and Vale University Health Board.
 - As UB coordinator we have completed 23 months of research stages in Cardiff and Vale University Health Board (4 nurses, 1 psychologist).

2009 – act. Master Degree of Critical Care and Emergencies (MCE). FMCS.

- The Master Degree of Critical Care and Emergencies is an interdisciplinary program addressed to healthcare providers (doctors, nurses). The Master is taught in two sites, the University of Barcelona (School of Medicine & Health Sciences, Campus Clínic) and the Universidad Autónoma de Madrid (School of Medicine, La Paz), as well as in various international partner centers. The program consists of 6 modules (120 ECTS in total) and is carried out in two academic years (full-time modality): The first year is taught Module 1: Theoretical knowledge (30 ECTS) and Module 2: Technical skills (30 ECTS); while the second year is taught Module 3: Patient Safety and Simulation (15 ECTS), Module 4: Practicum (15 ECTS), Module 5: Advanced Practice (15 ECTS) and Module 6: Final Master's – Research (15 ECTS).
- Coordinator of Critical Care and Emergencies Master's Degree.
 - Coordinator of 45 ECTS per year based on simulation training skills, decision making and teamwork training about all the field of critical care patient, in-hospital. (ICU and emergencies) and pre-hospital. I develop the e-learning, OSCEs, evaluation, workshops. I have been a teacher around 1000-1500 per year. Web: <https://goo.gl/cZbE5Z>
 - I decreased my activity as coordinator and teacher. Now I am Coordinator of 15 ECTS. Subject Patient Safety and Simulation. I am a teacher around 500 per year.
- Coordinator for the implementation of the Master's program in Madrid site. We have started to work together in 2015. I was the responsible of the transference at a coordination level, working with Dr. Quintana.

2015-2020 Pre-graduate Nursing and Medicine FMCS

2012-2019 Coordinator and Implementation Lead "Critical Care and Prehospital Postgraduate Courses"

Since 2012 I have coordinated several postgraduate programmes in Critical Care and Prehospital Care.

Society of Critical Care Medicine. SCCM.

SCCM. We have developed a strong relation with SCCM for providing courses and being national referents in some of them. I have represented UB in the negotiation with SCCM.

Implementation of FCCS and FDM in 2012.

- 32 editions. Fundamental Critical Care Support (FCCS) 2012-2019
- 6 editions. Fundamental Disaster Management (FDM) 2012-2019
- 22 instructors, 4 directors and a coordinator.
- I have been appointed as director of several of them.

- I have been offered a consultant position by SCCM.

Implementation of MCCR, FCCSTD, CCUC, FCCSP in 2018.

- I have coordinate and negotiate the implementation of new programs MCCR and CCUC as an autonomous site.
- 2 editions. Fund Critical Care Sup Tropical Diseases (FCCSTD) 2018-2019
- 3 editions. Fundamental Critical Care Support Pediatrics (FCCSP) 2018-2019
- 2 editions. Multiprofessional Critical Care Review (MCCR) 2018-2019
- 3 editions. Critical Care Ultrasound (CCU) 2018-2019
- I have helped Hospital Sant Joan de Deu to been accredited as FCCSP site.

After the second implementation in September 2018 I have transferred the leadership to a colleague.

Other Courses

I have coordinated

- Postgraduate Program: Expeditions and Mountain Medicine. Certified by: UIAA, CISA-IKAR ISMM. University of Barcelona. 2010
- Postgraduate Program: Aeronautic Medicine and HEMS missions. University of Barcelona. 2012

Talk Foundation.

Cardiff, UK.

Description

The TALK Foundation is a Charitable Incorporated Organisation registered with the UK Charity Commission under Registration Number 1177093. The object of this CIO is for the public benefit to advance the education of clinical teams in patient safety. Vision: To maximise the opportunity for healthcare improvement, patient safety and staff wellbeing through the use of TALK. Mission: To empower a culture of patient safety through the education of clinical teams. To promote and to encourage further patient safety initiatives. Values: To behave ethically, To be inclusive, To be positive.

2018 – act Board Member

Clinical Debriefing project has been spreading quickly all around the globe, the TALK creators and key persons that have contribute to the development of the tool, have decided to follow up and support Clinical Debriefing initiatives creating a foundation. I have participated in the conceptualization and creation of this Foundation where I am a Board Member.

I am invited member in Affiliations, Education and Research Committee

2019 – act Chair of Latinamerican Spain and Portugal Division

Several institutions around the Spanish speaking countries have arrived to our foundation. After one year of work we have decided to create a Latinamerican Spain and Portugal Division to follow up them closely.

I have been designated as chair, I work with Latinamerican co-chair appointed by foundation director and myself (Dr. Gamaliel Velasco-Mexico), a Latinamerican secretary (Sra. Carla Prudencio – Argentina), a Spanish Associate Director (Jordi Bañeras) secretary (Michelle Laurence)

High Impact Educational Projects

Dec 2020 Critical Care Management in COVID-19 Patients

After the first wave, a group of leaders in critical care in Catalan Region of Spain put all their efforts together to create a free MOOC with last evidence about COVID-19, found by CatSalut Regional Healthcare Government, that I have the great honour to coordinate and co-lead.

- 12.000 students enrolled in Cataluña (in Catalan language)
 - 5.000 students enrolled in Course (in Spanish)
- <https://www.coursera.org/learn/covid-19-esp>

March 2020 YouTube: Mechanical Ventilation Principles based on Patient Safety

During the first wave I have lead and record free mechanical ventilation resources for helping professionals with mechanical ventilation. In a few days we reached 25.000 visits.

- Today more than 66K people have seen the content.
- <https://www.youtube.com/watch?v=4l5q5yrCXv4>

2019 Ministerio de Educación y Deportes de la Nación de Argentina. PRONAFE

PRONAFE. Programa Nacional de Formación de Enfermería. Faculty Development to all national nursing schools. I was in charge of Prebriefing component.

2018-2020 Sociedad Española de Cardiología. Programa Nacional Simulation Residentes

Co-Developer of Simulation Based training National Program in Non Technical Skills for all 2 year cardiology residents. 1st Ed 2018. 2nd Ed 2019. 3rd Ed 2020.

Simulation Societies Positions

SSH. Society for Simulation in Healthcare.

- 2018-2019 Co-chair of the SubAffiliations Committee
- 2018-2019 Member of External Strategic Relations Committee.
- 2015-2018 Representing SESSEP in Affiliations Meetings

SESAM. Society for Simulation in Europe.

Executive Roles

- 2018- act Excutive Board Member
- 2018- act Treasurer
- 2015-2016 Treasurer del PHSIG Prehospital Simulation Interest Group

Scientific Roles

- 2018-act Conference Organizing Committee
 - 2021 – Sevilla. Spain. (Go to Virtual)
 - 2020 – Milán. Italia. (Cancelled)
 - 2019 – Glasgow. UK.
 - 2018 – Bilbao. Spain.
- 2018 Local Organizing Committee Chair. Bilbao.
- 2016 Member of Organizing Committee member SESAM-ALASIC Chile

SESSEP. Sociedad Española de Simulation Clínica y Seguridad del Paciente.

Executive Roles

- 2019- act Past-president
- 2017-2019 President elect
- 2017 President in charge
- 2015-2017 Vice-president
- 2013-2015 Secretary
- 2013-2015 Coordinator of Multidisciplinary Working Group

Scientific Roles

- 2013-2017 Member of Scientific Committee Annual Meetings
- 2013-2019 Member Organizing Committee Annual Meetings
 - 2013,2014,2015,2016,2017,2018,2019
- 2014 Organizing Committee Coordinator Annual Meeting (Barcelona)
- 2014 Scientific Committee Coordinator Annual Meeting (Barcelona)

GSH. Global Network of Simulation in Healthcare.

- 2015-2019 Representing SESSEP in Affiliations Meetings

Scientific

Research Groups

2017 – act GRISimula.

Member of *“Grupo Emergente de Investigación “Grup de Recerca Infermera en Simulació”* AGAUR GRISimula (2017 SGR 531).

Editorial Committee

2020 – act Editorial Board Member of British Medical Journal BMJ STEL

BMJ. MJ Simulation & Technology Enhanced Learning (BMJ STEL)

Scientific Reviewer

2020 – act British Medical Journal BMJ STEL

BMJ. MJ Simulation & Technology Enhanced Learning (BMJ STEL)

2019 – act Educación Médica Journal

2019 Anales de Pediatría Journal

Researcher. Cardiff and Vale University Health Board.

Cardiff, UK.

Description

Cardiff and Vale University Health Board is one of the largest NHS organizations in Wales. CVUHB employs approximately 14,000 staff and provide health services to a population of around 478,900 people living in Cardiff. CVUHB also serve a wider population across South and Mid Wales for a range of specialties.

2017-
2020

Honorary Contract

Intermittent 7 months period of research stages (June 2017- June 2020) for the Horizon 2020 – Marie Skłodowska Curie Actions -RISE 2016 Grant by the European Commission under project number: 734753. TALK Debriefing.

Thesis

2010-2020 Master final dissertation: Master Degree of Critical Care and Emergencies.

I have tutorized 30 TFMs.

Abstracts to conferences

2008-2020 Conferences National and International

25 International Conferences y 18 National

Publications

International Simulation Reference Texts

- 2018 Park, C. S., Murphy, T. F., & the Code of Ethics Working Group (2018). Healthcare Simulationist Code of Ethics. Retrieved from <http://www.ssih.org/Code-of-Ethics>.
Leon-Castelao E co-author Working Group.
- 2019 Park, C. S., Murphy, T. F., & the Code of Ethics Working Group (2018). Código de Ética para el Simulacionista en Salud. Retrieved from <http://www.ssih.org/Code-of-Ethics>.
Leon-Castelao E translation Working Group.
- 2019 Lioce L. (Ed.), Lopreiato J. (Founding Ed.), Downing D., Chang T.P., Robertson J.M., Anderson M., Diaz D.A., and Spain A.E. (Assoc. Eds.) and the Terminology and Concepts Working Group (2020), Healthcare Simulation Dictionary –Second Edition. Rockville, MD: Agency for Healthcare Research and Quality; September 2020. AHRQ Publication No. 20-0019. DOI: <https://doi.org/10.23970/simulationv2>.
Leon-Castelao E co-author Working Group.

Author Co-author

- 2021 Martínez-Isasi, S. et al. Basic life support training programme in schools by school nurses. *Medicine (Baltimore)*. 100, e24819 (2021).
<https://doi.org/10.1097/md.00000000000024819>
- 2020 (PAPER) Ingrassia, P. L., Capogna, G., Diaz-Navarro, C., Szyld, D., Tomola, S., & Leon-Castelao, E. (2020). COVID-19 crisis, safe reopening of simulation centres and the new normal: food for thought. *Advances in Simulation*, 5(1), 13.
<https://doi.org/10.1186/s41077-020-00131-3>
- 2020 (ARTÍCULO DE OPINIÓN) Leon-Castelao, E., Clemente-Vivancos, A., Alonso-Viladot, JR., Argudo-Serra, E., Quintana, M. (2020) El enfermo crítico COVID19, retos, reflexiones e iniciativas más de la UCI. *Rescate Vial* 58,36-37.
<https://www publica.es/digital/rv-58.htm>
- 2019 (EDITORIAL) Clemente-Vivancos, A., & Leon-Castelao, E. (2019). ¿Puedes aportar valor más allá de la UCI? El reto de la enfermería en los Sistemas de Respuesta Rápida. *Enfermería Intensiva*, 30(4), 151–153. <https://doi.org/10.1016/j.enfi.2019.09.002>
- 2019 (SCIENFIC LETTER) Bañeras Rius, J., Huelmos, A., León-Castelao, E., & Anguita Sánchez, M. (2019). Healthcare simulation: Pilot program for the training of Cardiology residents in Spain. *REC: CardioClinics*, 54(4), 265–270.
<https://doi.org/10.1016/j.rccl.2019.01.021>
- 2019 (PAPER) León-Castelao, E., & Maestre, J. M. (2019). Prebriefing en simulación clínica: análisis del concepto y terminología en castellano. *Educación Médica*, 20(4), 238–248.
<https://doi.org/10.1016/j.edumed.2018.12.011>
- 2019 (PAPER) Carvalho, E., Castro, P., León, E., Del Río, A., Crespo, F., Trigo, L., ... Nicolás, J. M. (2019). Multi-professional simulation and risk perception of health care workers caring for Ebola-infected patients. *Nursing in Critical Care*, 24(5), 256–262.
<https://doi.org/10.1111/nicc.12396>
- 2018 Bañeras Rius J, León Castelao E, Clemente Vivancos A. TEAM: Team Emergency Assessment Measure. Translation into spanish from original english version.
<http://medicalemergencyteam.com/>

- In review (PAPER) Stafford, J. L., Leon-Castelao, E., Klein Ikkink, A. J., Garcia-Font, M., Szyld, D., & Diaz-Navarro, C. (2020). Clinical Debriefing during the COVID-19 Pandemic: Hurdles and Opportunities for Healthcare Teams.
- In review (PAPER) Co-autor. Interprofessional high-fidelity simulation based on crisis resource management is associated with changes in acute care health professionals' knowledge and perceptions regarding ways of working and patient safety culture.
- In review (CASE REPORT) Co-autor. Clinical Debriefing Case Report.

Acknowledgements

- 2020 (PAPER) Park, C. S., Clark, L., Gephardt, G., Robertson, J. M., Miller, J., Downing, D. K., ... Rethans, J.-J. (2020). Manifesto for healthcare simulation practice. *BMJ Simulation and Technology Enhanced Learning*, bmjstel-2020-000712. <https://doi.org/10.1136/bmjstel-2020-000712>
- 2020 (PAPER) Bañeras Rius, J., Huelmos, A., & Anguita Sánchez, M. (2019). Simulación clínica en cardiología: promesas y realidades. *Revista Española de Cardiología*, 72(8), 606–607. <https://doi.org/10.1016/j.recesp.2019.02.008>

Books

- 2018 (BOOK CHAPTER) Leon-Castelao, E., García M, Enjo I. El Debriefing formativo. En Raurell M. La evaluación de competencias en profesionales de la salud mediante la metodología de la simulation. Octaedro Editorial. ISBN: 978-84-17667-65-8. <http://diposit.ub.edu/dspace/handle/2445/136827>
- 2018 (BOOK CHAPTER) Leon-Castelao, E., García M, Enjo I. El Debriefing formativo. En Raurell M. La evaluación de competencias en profesionales de la salud mediante la metodología de la simulation. Octaedro Editorial. ISBN: 978-84-17667-65-8. <http://diposit.ub.edu/dspace/handle/2445/136827>
- 2018 (BOOK CHAPTER) Leon-Castelao, E., García M, Enjo I. El Debriefing formativo. En Raurell M. La evaluación de competencias en profesionales de la salud mediante la metodología de la simulation. Octaedro Editorial. ISBN: 978-84-17667-65-8. <http://diposit.ub.edu/dspace/handle/2445/136827>
- 2014 (BOOK CHAPTER) Leon-Castelao, E., Alonso JR, Sanz M, Barreiro L, Nicolás JM. Aprendizaje Mediante Simulation para la Mejora de la Seguridad del Paciente. En. Anglés C, Fernández F. Seguridad del Paciente Crítico. EdikaMed S.L ISBN 978-84-7877-9

Active Research Projects

2020-act [Sociedad Española de Cardiología. Clinical Debriefing Implementation](#)

- ROL: Co-researcher.
- Funding: Non-competitive, Society Resources
- Title: Valorar el impacto de una intervención educativa interdisciplinar, basada en la formación virtual de profesionales de cardiología, en el uso del debriefing clínico mediante la herramienta TALK ®.
- Dates: Sept 2020 – Sept 2021.
- Institutions: Sociedad Española de Cardiología SEC, Asociación Española de Enfermería Cardiologica, TALK Foundation.
- Ethics: CEIM Hospital Vall d'Hebron.
- Authors: Jordi Bañeras, Esther León, Cristina Diaz-Navarro, Michelle Laurens.
- Expected outcomes: 1 paper (1Q o 2Q)

2019-act [Team Performance and Communication Tools \(HTCE\)](#)

- ROL: Principal Investigator
- Funding: Non-competitive, University Resources
- Title: "Efecto de la implantación de un paquete de herramientas de comunicación (SBAR, briefing, huddle y debriefing) en entornos de simulation clínica, en la cultura de la seguridad y habilidades de trabajo en equipo, a profesionales del ámbito de cuidados críticos que estudian un programa de máster".
- Dates: July 2019 – (Postponed due to COVID-19)
- Institutions: University of Barcelona (UB) - Programa Integral Enfermero Crítico y Emergencias (PIMCE).
- Ethics: CEIM Hospital Clinic (Barcelona).
- Authors: Teachers and researchers from Programa Integral Enfermero Crítico y Emergencias (PIMCE).
- Expected outcomes: 1 Master Thesis, 1 PhD, 2-3 papers (1Q o 2Q)

2020-act [Sistemas de Respuesta Rápida \(SRR\) ante el deterioro clínico del paciente hospitalizado. \(SEMICYUC / FEPIMCTI\)](#)

- ROL: Co-researcher and coordinator.
- Project linked to a PhD: Álvaro Clemente Vivancos.
- Funding: Non-competitive, University Resources
- Dates: July 2020 – July 2022.
- Study 1: ENCUESTA NACIONAL. ¿CÓMO ABORDAMOS AL PACIENTE EN RIESGO DE DETERIORO CLÍNICO FUERA DE LA UCI? **En colaboración con SEMICYUC.**
- Study 2: ENCUESTA LATINOAMERICANA. ¿CÓMO ABORDAMOS AL PACIENTE EN RIESGO DE DETERIORO CLÍNICO FUERA DE LA UCI? **En colaboración con FEPIMCTI**
- Study 3: INVESTIGACIÓN CUALITATIVA. PERCEPCIONES DE LOS PROFESIONALES SOBRE LA IMPLEMENTACIÓN DE SISTEMAS DE RESPUESTA RÁPIDA Y EL ROL DE LA ENFERMERA DE PRÁCTICA AVANZADA EN CUIDADOS CRÍTICOS. En colaboración con University of Barcelona.
- Ethics: CEIM Universidad Católica de Murcia.
- Expected outcomes: 1 Master Thesis, 1 PhD, 2-3 papers (1Q o 2Q)

2017-act TALK Debriefing Clínico MARIE CURIE. Investigación Internacional

- ROL: Co-researcher and coordinator in Barcelona.
- Funding: EC competitive, Marie Curie RISE Grant
- Dates: June 2017 – July 2022
- Study 1: Concept Paper TALK Debriefing Clínico
- Study 2: TALK Debriefing Implementation in Surgical Areas in Cardiff
- Study 3: TALK Debriefing Implementation in Intensive Care Units in Barcelona.
- Study 4: TALK Debriefing from the qualitative perspective.
- Ethics: CEIM Hospital Clinic (Barcelona).
- Expected outcomes: 2 PhD, 2-3 papers (1Q o 2Q)

2018-act Sociedad Española de Cardiología. PhDc. Valoración del Rendimiento de Equipos mediante TEAM tool.

- ROL: PhDc
- Funding: Non-competitive, Society Resources
- Aim: "Validación del instrumento TEAM "Team Emergency Assessment Measurement" de medición del trabajo en equipo, para su aplicación en el contexto iberoamericano"
- Dates: 2018 – now
- Institutions: Sociedad Española de Cardiología SEC.
- Ethics: CEIM Hospital Vall d'Hebron.
- Authors: Jordi Bañeras, Esther León.
- Expected outcomes: 1 PhD, 2 papers (1Q o 2Q)

Speaker

International

- 2020 SPEAKER Acreditación de programas de simulation, experiencia de la Sociedad Europea de Simulation. En SIMEX 2020 Cuarto Encuentro Internacional de Simulation Clínica. Noviembre 2020. México
<http://www.simex.unam.mx/index.php/programa-academico/>
- 2020 SPEAKER TRAIN OF TRAINER ELEARNING AND ONLINE MENTORSHIP "Strengthening HRH (Human Resources for Health) in Duhok Province" para el gobierno de Irak. A través de SIMNOVA de Italia. Ag-Dic 2020. Italia-Irak.
- Ponencia 1: Strategic Planning for Simulation.
 - Ponencia 2: Possible Revenue Sources for Simulation.
- 2020 SPEAKER (TALLER) Debriefing Clínico. En SIMEX 2020 Cuarto Encuentro Internacional de Simulation Clínica. Noviembre 2020. México
<http://www.simex.unam.mx/index.php/talleres-pre-encuentro/>
- 2020 MODERATOR. The Evolution, Essentials, and the Future of Simulation Based Education Pam Jefferies. Sociedad Europea de Simulacion. SESAM. Octubre 2020. Europa.
<https://www.sesam-web.org/>
- 2020 SPEAKER Mesa: Using Quality Improvement Principles to Improve Outcomes: Debriefing as an improvement Tool. International World Sepsis Meeting. Septiembre 2020. Worldwide.
<https://worldsepsismeeting.com/#Program>
- 2020 SPEAKER "La Cultura dominante del error y estrategias a través de la Simulation Clínica para una nueva cultura". Primera Jornada Internacional de Simulation Clínica con Enfoque en la Seguridad de los Trabajadores de la Salud y Pacientes". Facultad de Ciencias de Salud de la University Central de Chile. Septiembre 2020. Chile
Video: <https://www.youtube.com/watch?v=v8qYafGoQIM&feature=youtu.be>
- 2020 SPEAKER "Desafíos e Innovación en la docencia de enfermería: La simulation clínica, mitos, retos y soluciones", con el tema: MITOS DE LA SIMULATION. II Webinar Internacional Virtual de ALADEFE Asociación Latinoamericana de Escuelas de Facultades de Enfermería (ALADEFE). Septiembre 2020. Latinoamerica.
Video: <https://youtu.be/MkRx8o4WC5c> (2500 visitas)
- 2020 SPEAKER "Retorno a actividades presenciales en instituciones formadoras de salud en España" Ciclo de Webinars Internacionales PRONAFE organizado por el Programa Nacional De Formación De Enfermería, perteneciente al Instituto Nacional de Educación Tecnológica, Ministerio de Educación de la Nación Argentina. Julio 2020. Buenos Aires, Argentina.
Video: <https://www.youtube.com/watch?v=BXhhe9Lsvfs> (3200 visitas)
- 2020 SPEAKER "La transición a la virtualidad: lecciones aprendidas y retos de la nueva normalidad "Ciclo Internacional de Conferencias sobre Educación y Simulation Clínica en el Contexto de la Pandemia". Asociación de Escuelas Universitarias de Enfermería de la República Argentina (AEUERA). Junio 2020. Argentina.
Video: <https://youtu.be/KaOG0y2arPw> (1800 visitas)
- 2020 SPEAKER "El efecto del confinamiento en la educación de pre y post grado" "Conversatorio Internacional El Rol de la Enfermería en tiempos de COVID- 19". University of las Americas. UDLA. Mayo 2020. Chile
Video: [Link a facebook](#) (3200 visitas)

- 2018 SPEAKER La simulation no es científica es empírica. Congreso Anual de la Sociedade Portuguesa de Simulação Aplicada às Ciências da Saúde (SPSIM). Diciembre 2018. Madeira. Portugal.
- 2018 SPEAKER "Avances y desafíos en simulation para Enfermería" III Congreso MiniSUN Simulation User Network. Jornada de Simulation Clínica. Agosto 2018. Buenos Aires. Argentina.
- Ponencia 1: "La Simulación como Herramienta Educativa, Desafíos"
 - Ponencia 2: "Simulation y Seguridad del Paciente"
 - Taller: "Debriefing Educativo"
- 2018 SPEAKER "La Simulation como camino a la Seguridad del Paciente". Inauguración del Centro de Simulation Bicentenario. Agosto 2018. Santiago de Chile. Chile.
- 2018 SPEAKER "Crisis Resource Management". Diplomado en Simulation. University of las Américas (UDLA). Agosto 2018. Santiago de Chile. Chile.
- 2017 SPEAKER Pasado, presente y futuro de la simulation en Spain. Congreso Anual de la Sociedade Portuguesa de Simulação Aplicada às Ciências da Saúde (SPSIM). Febrero 2017. Coimbra Portugal.
- 2017 SPEAKER III Simposio de Enfermería de Servicios Quirúrgicos. Clínica las Condes. Julio 2017. Santiago de Chile. Chile.
- Ponencia 1: Experiencia de Cultura de Seguridad.
 - Ponencia 2: Debriefing en simulación ysituaciones críticas reales.
 - Ponencia 3: Simulation como herramienta de seguridad del paciente.
 - Mesa Redonda: Experiencia en la gestión de Incidentes Críticos.
- 2017 SPEAKER (TALLER) Learning to TALK Debriefing Clínico. Clínica las Condes. Julio 2017. Santiago de Chile. Chile.
- 2017 SPEAKER Simulation como herramienta de cambio, más allá de la habilidad técnica. University of las Américas Jul 2017. Santiago. Chile.
- 2012 SPEAKER and COORDINATOR Diplomado de Enfermería Avanzada, Enfermo Crítico y Emergencias. CEDIMAT. UNPHU. University Nacional Pedro Enrique Ureña. 40h. 2012. Santo Domingo. Republica Dominicana.
- 2011 SPEAKER Curso Enfermería en Atención al Enfermo Crítico y Emergencias. UNIBE. University Iberoamericana. 40h. 2011 Santo Domingo. Republica Dominicana.
- 2011 SPEAKER Curso Ventilación Mecánica. Hospital Traumatológico Ney Arias Lorca. 6h. 2011. Santo Domingo. Republica Dominicana.

Nacional

- 2020 SPEAKER (TALLER) Implantando el debriefing clínico en la práctica clínica: TALK SEC. En el eCongreso 2020 de la Sociedad Española de Cardiología y 41 Congreso de la Asociación Española de Enfermería Cardiológica. Octubre 2020. Spain.
<https://econgresosec.com/programa>
- 2020 MODERATOR. Conversaciones sobre simulation online: Unidos en la Distancia. Congreso Virtual de la Sociedad Española de Simulation y Seguridad del Paciente. (SESSEP). Octubre 2020. Spain.
<http://www.congresosessep.es/programa>
- 2020 SPEAKER Com estem en simulació? Jornada d'Experts de la SOCMIC 2020: Simulació. Societat Catalana de Medicina Intensiva i Crítica. Enero 2020. Sant Cugat. Cataluña.
- 2019 MODERATOR Experiencias en Simulation. Sociedad Española de Simulation Clínica y Seguridad del Paciente. VII Congreso Anual. Abril 2019. Madrid, Spain.

- 2019 SPEAKER Criterios de Calidad y Acreditación. Sociedad Española de Simulation Clínica y Seguridad del Paciente. Jornadas Precongreso del VII Congreso Anual. Abril 2019. Madrid, Spain.
- 2018 SPEAKER Debriefing educativo. Societat Catalana d'Innovació Docent i Formació per Simulació en Ciències de la Salut. Octubre 2018. Barcelona. Cataluña.
- 2018 SPEAKER "Nous serveis per a la docència": Simulation como herramienta de aprendizaje. Innovació Docent en l'ensenyament de Medicina. Health Meeting. UVIC. Mayo 2018. Barcelona, Cataluña.
- 2017 SPEAKER Debriefing. 1ª Jornada Multiprofesional de Reanimación cardiopulmonar en gestante. Hospital Puerta del Hierro. Mayo 2017. Madrid. Spain.
- 2017 SPEAKER Simulation Clínica como Herramienta de entrenamiento de las profesiones sanitarias. Entrenamiento multiprofesional en situaciones críticas. "Crisis Resource Management" en UCI. LII Congreso Nacional de la SEMICYUC. Junio 2017. Madrid, Spain.
- 2017 SPEAKER Simulation Como Herramienta de Cambio. Healthio Conference. Mayo 2017. Barcelona. Cataluña.
- 2016 SPEAKER Debriefing Clínico. Update. Departamento de Anestesia. Hospital Clinic. Octubre 2016. Barcelona. Cataluña.
- 2016 SPEAKER Simulation Clínica para la formación continuada de los profesionales del paciente crítico." XLII Congreso Nacional de la SEEIUC. Liderazgo y comunicación del equipo. June 2016. Valencia, Spain.
- 2017 SPEAKER La simulació com a eina d'aprenentatge: com comencem. XIV Jornades de Docència dels ensenyaments de la Facultat de Medicina. Facultat de Medicina. Mayo 2016. Barcelona, Cataluña.
- 2015 SPEAKER Maneig de la situació crítica en el Servei de Medicina Intensiva. Els 15 punts del Crisis Resource Management (CRM). XXXVI Reunió de la Societat Catalana de Medicina Intensiva i Crítica - XXXII Jornades Catalanes d'Infermeria Intensiva i Crítica. Marzo 2015. Barcelona. Cataluña
- 2014 SPEAKER Crisis Resource Management. Desde el Ámbito de la Docencia. XXI Congreso Nacional Catalán de Urgencias y Emergencias. Abril 2014. La Seva. Cataluña.

Clinical Positions

- 2012-2016 Emergency Medical System Nurse (Prehospital). SEM (Sistema d'Emergències Mèdiques) Barcelona, Spain.
- 2010-2012 Critical Care (ICU) Nurse. Hospital Clínic de Barcelona. Barcelona. Spain
- 2008-2010 Emergency Department (ED) Nurse. Hospital Clínic de Barcelona. Spain
- 2008-2013 Red Cross Volunteer: Prehospital Nurse and First Responder. Cruz Roja de Barcelona. Spain
- 2004-2016 Red Cross Volunteer: Prehospital Nurse and First Responder. Spain

Annex

Simulation Leadership Contributions.

SESSEP. (Spanish Clinical Simulation and Patient Safety Society).

- Under my leadership as President in SESSEP I have a strong contribution to triggered, create or develop the following projects.
- Redesign of society **bylaws (2017)**
 - To make more efficient and transparent the election process.
 - Redesign of Executive Committee roles, and incorporation of new roles. Education vocal, patient safety vocal, communication vocal, students vocal, affiliations vocal, interest group vocal, scientific committee vocal, everyone is responsible of an area decisions are shared and approved but worked parallely.
 - Project Leaders: E León, J Miñano.
 - Web: <https://goo.gl/PKQSdE>



- **National Conference (2018)**
 - Redesign concept of the national conference.
 - Pre-conference strategy to approach new members to the society.
 - Gamification and groups dynamics.
 - Society with a dialogue with participants.
 - Increased number of participants and r
 - Define the Local Organizing Committee & Scientific Committee and Executive Committee roles for organizing a conference.
 - Numbers: Pre conference activities 430 participants. Conference: 240 participants.
 - Project Leaders: Aida Camps, J Miñano, E León.
 - Web: <http://sessepesp.blogspot.com>
 - Video: <https://youtu.be/Ygt24KRTdCo>

- **Education (2018)**
 - Promotion and creation and run the first edition of a “**Basic Simulation Course**” of three modules: e-elearning, on class sessions and mentoring, containing the basic tools for starting a simulation project. 21 faculty. 26 delegates.
 - Project leaders: JM Maestre, C Gomar, E León.
 - Web: <https://goo.gl/7ZHfuz>
- **Accreditation. (2017,2018)**
 - Consolidate an accreditation process (criteria, protocol, web based). Educational activities or programs are scientific peer review. 1 year: 21 courses accredited.
 - Project Leaders: C Gomar, G Coro, E León.
 - Web: <http://www.sessep.com/cursos-acreditados/>
- **Quality Criteria. (2018)**
 - Defining quality criteria standards for centers and simulation programs.
 - Project leaders: JM Quintillá, E León.
- **Operation Specialist (2018)**
 - Create the Operation Specialist Interest Group (Simulation Technician). 2017
 - Promote and Design a Basic Course on fundamentals of Operation Specialist tools.
 - In process: Defining the Operation Specialist role in Spain.
 - Project leaders: C Alaez, N Urueña, M Fuencilsa, E León.
- **International Relations: Integrating in the FLASIC Federation. (2018)**
 - Creating an Affiliation to be a voting member of FLASIC.
 - Project leaders: E León, R Rubio.
- **National Relations (2018)**
 - Negotiating affiliations with clinical & regional simulation societies.
 - Project Leaders: E León, JM Quintilla.