

SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

		RICORS Code RD21/0012/0011
Thematic area:	Atención Primaria, cronicidad, y promoción de la salud	
Programme name:	PREVENTION, CARE AND FOLLOW-UP WITH CONTINUITY OF CARE OF PEDIATRIC PATIENTS WITH SERIOUS PATHOLOGY: COORDINATION AND INTEGRATION OF PRIMARY AND HOSPITAL	
Group leader:	Jesús López-Herce Cid	
Applicant Institution:	Fundación de Investigación Biomédica Hospital Gregorio Marañón	
Working Institution:	Hospital General Universitario Gregorio Marañón	
PI Work Institution:	Hospital General Universitario Gregorio Marañón	

Participants

Researcher	Family Name (s)	First Name (s)	Work Institution	Position
1	López-Herce Cid	Jesús	Hospital General Universitario Gregorio Marañón	Statutory staff
2	Sánchez Galindo	Amelia Caridad	Hospital General Universitario Gregorio Marañón	Statutory staff
3	Santiago Lozano	María José	Hospital General Universitario Gregorio Marañón	Statutory staff
4	Urbano Villaescusa	Javier	Hospital General Universitario Gregorio Marañón	Statutory staff
5	Del Castillo Peral	Jimena	Hospital General Universitario Gregorio Marañón	Statutory staff
6	Solana García	María José	Hospital General Universitario Gregorio Marañón	Statutory staff
7	Mencia Bartolomé	Santiago	Hospital General Universitario Gregorio Marañón	Statutory staff
8	González Cortés	Rafael	Hospital General Universitario Gregorio Marañón	Statutory staff
9	Sánchez Sánchez	Cesar	Hospital General Universitario Gregorio Marañón	Statutory staff
10	Manrique Martín	Gema	Hospital General Universitario Gregorio Marañón	Contracted
11	Slöcker Barrio	María	Hospital General Universitario Gregorio Marañón	Contracted
12	López González	Jorge	Hospital General Universitario Gregorio Marañón	Statutory staff
13	Fernández Lafever	Sarah Nicole	Hospital General Universitario Gregorio Marañón	Statutory staff
14	García Sanprudencio	Miriam	Centro de Salud Caramuel	Contracted
15	Butragueño Laiseca	Laura	Hospital General Universitario Gregorio Marañón	Contracted

PUBLICATIONS

Up to twenty selected publications related to the RICORS's Thematic Area (published in the last five years)

1. González R, Bustinza A, Fernandez SN, et al; Quality of life in home-ventilated children and their families; *Eur J Pediatr*; PMID: 28803432; Original article; 2017; Impact Factor: 2.305. Times Cited: 14.
2. García Mancebo J, de la Mata Navazo S, López-Herce Arteta E, et al. A comparative two-cohort study of pediatric patients with long term stay in ICUs. *Sci Rep*; PMID: 33633291; Original article; 2021; Impact Factor:3,998 . Times Cited: 0.
3. Solana MJ, Manrique G, Fernández R, et al. Nutritional status and nutrition support in critically ill children in Spain: Results of a multicentric study. *Nutrition*. PMID: 33109454; Original article; 2021; Impact Factor: 3.639 . Times Cited: 0.
4. Fernández R, Urbano J, Carrillo Á, et al. Comparison of the effect of three different protein content enteral diets on serum levels of proteins, nitrogen balance, and energy expenditure in critically ill infants: study protocol for a randomized controlled trial. *Trials*. PMID: 31604481; Original article; 2019; Impact Factor: 1.883 . Times Cited: 0.
5. González R, Urbano J, Solana MJ, et al. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. *Front Pediatr*. PMID: 31312623; Original article; 2019; Impact Factor: 2,634 . Times Cited: 0.
6. Campos-Miño S, López-Herce Cid J, Figueiredo Delgado A, Muñoz Benavides E, Coss-Bu JA; Nutrition Committee, Latin American Society of Pediatric Intensive Care (SLACIP). The Latin American and Spanish Survey on Nutrition in Pediatric Intensive Care (ELAN-CIP2). *Pediatr Crit Care Med*. PMID: 30395023; Original article; 2019; Impact Factor: 2,854 . Times Cited: 3.
7. Cañete P, Fernández A, Solís A, et al. Incidence and Prognosis of Acute Kidney Injury After Cardiac Arrest in Children. *Nephron*. PMID: 30343292; Original article; 2019; Impact Factor: 2,089 . Times Cited: 0.
8. López-Herce J, Almonte E, Alvarado M, et al. Latin American Consensus for Pediatric Cardiopulmonary Resuscitation 2017: Latin American Pediatric Critical Care Society Pediatric Cardiopulmonary Resuscitation Committee. *Pediatr Crit Care Med*. PMID: 29252866; Original article; 2018; Impact Factor: 2,854 . Times Cited: 3.
9. Fernández A, Solís A, Cañete P, et al. Incidence and prognosis of nosocomial infection after recovering of cardiac arrest in children. *Resuscitation*. PMID: 28212839; Original article; 2017; Impact Factor: 4,215. Times Cited: 2.
10. González R, López-Herce J. Mortality of patients with chronic disease: an increasing problem. *J Pediatr (Rio J)*. PMID: 30550761; Editorial; 2019; Impact Factor: 2,029. Times Cited: 0.
11. López-Herce J, Del Castillo J. The role of the gray-to-white matter ratio to predict the prognosis of cardiac arrest treated with ECMO. *J Thorac Dis*. PMID: 27162646; Editorial; 2016; Impact Factor: 2,046. Times Cited: 0.
12. Sanavia E, Mencía S, Lafever SN, Solana MJ, Garcia M, López-Herce J. Sedative and Analgesic Drug Rotation Protocol in Critically Ill Children With Prolonged Sedation: Evaluation of Implementation and Efficacy to Reduce Withdrawal Syndrome. *Pediatr Crit Care Med*. PMID: 31261229; Original article; 2019; Impact Factor: 2,854. Times Cited: 11.
13. Fabra C, Infante S, Miras I, et al. Hematologic Disorders in Children with Continuous Renal Replacement Therapies. *ASAIO J*. PMID: 28777135; Original article; 2018; Impact Factor: 2,678. Times Cited: 2.
14. Mencía S, Palacios A, García M, et al. An Exploratory Study of Sevoflurane as an Alternative for Difficult Sedation in Critically Ill Children. *Pediatr Crit Care Med*. PMID: 29557840; Original article; 2018; Impact Factor:

2,854. Times Cited: 7.

15. Oulego-Erroz I, González-Cortes R, García-Soler P, et al. Ultrasound-guided or landmark techniques for central venous catheter placement in critically ill children. *Intensive Care Med*. PMID: 29196794; Original Article; 2018. Impact Factor: 17,679. Times Cited: 26.

16. López J, Slöcker M, Heras E, et al. Prognostic utility of the multiorgan failure scores and inotropic index in the postoperative of cardiac transplantation in children. *Med Intensiva*. PMID: 29107393; Original article; 2019; Impact Factor: 2,363. Times Cited: 0.

17. Santiago MJ, López-Herce J, Vierge E, et al. Infection in critically ill pediatric patients on continuous renal replacement therapy. *Int J Artif Organs*. PMID: 28525671; Original article; 2017; Impact Factor: 1,337. Times Cited: 3.

18. Butragueño-Laiseca L, Troconiz IF, Grau S, et al. Finding the Dose for Ceftolozane-Tazobactam in Critically Ill Children with and without Acute Kidney Injury. *Antibiotics (Basel)*. PMID: 33321721; Original article; 2020; Impact Factor: 3,893. Times Cited: 0.

19. García-Salido A, de Carlos Vicente JC, Belda Hofheinz S, et al. Severe manifestations of SARS-CoV-2 in children and adolescents: from COVID-19 pneumonia to multisystem inflammatory syndrome: a multicentre study in pediatric intensive care units in Spain. *Crit Care*. PMID: 33243303; Original article; 2020; Impact Factor: 6,407. Times Cited: 0.

20. Singh Y, Tissot C, Fraga MV, et al. International evidence-based guidelines on Point of Care Ultrasound (POCUS) for critically ill neonates and children issued by the POCUS Working Group of the European Society of Paediatric and Neonatal Intensive Care (ESPNIC). *Crit Care*. PMID: 32093763; Original Article; 2020; Factor: 6,407. Times Cited: 39.

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INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

(Funded in the last five years)

COV20/00944. IP: Rafael González Cortés. IC: María Slöcker Barrio, Jesús López-Herce Cid Registro observacional multicéntrico de pacientes con infección por sars-cov2 en UCIP españolas (SECIP-COVID). Agencia Financiadora: Instituto de Salud Carlos III. 4560€. Duración: 2020-2021.

PI20/01339. IPs: Jorge López González y María José Solana García. IC: María Slöcker Barrio, Laura Butragueño Laiseca, Cesar Sánchez. Ensayo clínico controlado aleatorizado sobre el tratamiento profiláctico del estreñimiento con polietilenglicol con electrolitos en el niño crítico. Agencia Financiadora: Instituto de Salud Carlos III. 81070€. Duración: 2021-2024

PI20/01491. IP: Rafael González Cortés. IC: María Slöcker Barrio, Amelia Caridad Sánchez Galindo. Utilidad de las nuevas modalidades de imagen en ecografía y videomicroscopía para la evaluación microcirculatoria y tisular a pie de cama en niños sometidos a cirugía cardíaca. Agencia Financiadora: Instituto de Salud Carlos III. 74289€. Duración: 2021-2024.

PI20/01706. IP: Javier Urbano Villaescusa. IC: Sarah Nicole Fernández Lafever, Gema Manrique Martín, Laura Butragueño Laiseca, Miriam García Sanprudencio. Efectos de la resucitación con albumina hipertónica y nuevas drogas vasoactivas en un modelo animal infantil de shock hemorrágico. Agencia Financiadora: Instituto de Salud Carlos III. 93170€. Duración: 2021-2024.

PI20/01428. IP: María José Santiago Lozano. IC: Amelia Caridad Sánchez Galindo, Sarah Nicole Fernández Lafever, Gema Manrique Martín. Comparación de la eficacia en sepsis de las técnicas de depuración sanguínea para niños críticos: estudio clínico y experimental. Agencia Financiadora: Instituto de Salud Carlos III. 123.420 €. Duración: 2021-2024.

Ayudas para proyectos de Cooperación para el Desarrollo Sostenible de la Universidad Complutense de Madrid IP: Jesús López Herce-Cid. Programa latinoamericano universitario de educación médica en emergencias y cuidados intensivos pediátricos. Agencia financiadora Universidad Complutense de Madrid. 16020€. Duración: 2019-2020.

ESICM Global ICU Award IP: Jesús López Herce-Cid Programa de educación médica en emergencias y cuidados intensivos pediátricos en Honduras (EPICH). Sociedad Europea de Cuidados Intensivos (ESICM). 15000€ Duración: 2019-2020

PI18/01632. IP: Jesús López-Herce Cid. IC: Jimena del Castillo Peral, Sarah Nicole Fernández Lafever. Estudio clínico y experimental de la parada cardíaca y reanimación cardiopulmonar en pediatría. Agencia Financiadora: Instituto de Salud Carlos III. 81.070€. Duración: 2019-2021.

PI 17/01319: IP: Manuel Ruiz. IC: Rafael González Cortés, Jorge López González. Efectos del tipo de flujo (continuo o pulsátil) sobre la microcirculación un modelo animal de asistencia ventricular. Agencia Financiadora: Instituto de Salud Carlos III. 65340€ Duración: 2018-2020.

PI17/00248: IP: María José Santiago Lozano. IC: Amelia Caridad Sánchez Galindo, Miriam García Sanprudencio, Santiago Mencia Bartolomé, Laura Butragueño Laiseca. "Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas depuración continua". Agencia Financiadora: Instituto de Salud Carlos III. 153670€. Duración: 2018-2020.

PI16/0666. IP: Ángel Carrillo Álvarez. IC: Jimena del Castillo Peral, Jorge López González, Sarah Nicole Fernández Lafever, Amelia Caridad Sánchez Galindo. Efecto de la calidad de la reanimación cardiopulmonar en la supervivencia y estado neurológico de los niños que sufren una parada cardíaca. Agencia Financiadora: Instituto de Salud Carlos III. 68365€ Duración: 2017-2019.

PI15/00743: IP: Jesús López-Herce Cid. IC: María José Solana García, Sarah Nicole Fernández Lafever, Rafael González Cortés, Jimena del Castillo Peral. "Efecto de la ventilación y el masaje cardíaco sobre la calidad de la

reanimación cardiopulmonar: estudio experimental animal y en un modelo de simulación pediátrica". Agencia Financiadora: Instituto de Salud Carlos III. 68970€. Duración: 2016-2018.

PI14/02046. IP: Javier Urbano Villaescusa. IC: Sarah Nicole Fernandez Lafever, Jorge López González, Maria José Solana García, Rafael González Cortés. Efectos de la resucitación mediante albúmina hipertónica o gelafundina sobre los parámetros hemodinámicos, de perfusión tisular y de función renal en niños críticamente enfermos. Agencia Financiadora: Instituto de Salud Carlos III. 61710 €. Duración: 2015-2017.


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PATENTS

(Granted and licensed patents in the last five years. Include also licensed know-how)

RICORS Call: Scientific and Technological Profile of the Participating Groups

Aim: describe the major contributions of the different participating groups in terms of papers, funding and patents.

 The structure of this template has been designed to ensure that the important aspects of your scientific and technological profile are presented in a way that will enable experts to make an effective assessment against the evaluation criteria.

 The font type and size recommended is Arial 9 points. Please respect the page limits and do not take it as a target either! It is in your interest to keep your text as concise as possible, since experts rarely view unnecessarily long documents in a positive light.

Section 1. List of Participating Groups. PI participants.

 **Remember**

PI's Family Name | PI's First name(s) | PI's Work Institution | **Position ***

***Position:** officer, statutory staff; contracted; fellow

Section 2. Papers

Indicate: Authors; Title; Journal; PMID; Type of paper; Publication year; Impact Factor (JCR Thomson Reuters) and times cited.

Section 3. International and National Research Projects

 **Do not include regional or privately funded projects.**

Indicate: Project ID; Name of the PI; Title; Funding Agency; Amount of Funding & Duration.

Section 4. Patents

Indicate: Applicant; Title; Inventors; Patent Office; Date of application number; Date of grant and Entity-Organization Exploiting the Patent.