



3.7.7 Congenital Malformations and Transplantation Group

Publications: 15

Q1: 2

COMPOSITION

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STRATEGIC OBJECTIVE

Paediatric surgical specialities are extremely complex due to the wide spectrum of diseases included in their scope. Many of the problems are related to rare diseases and their treatment frequently requires complex procedures. Clinical care of paediatric surgical patients is a long-term task that requires a wide knowledge of the pathology and multidisciplinary committees. Surgical corrections usually consist of multi-step procedures, some of them in the neonatal period while others might be required in young adults.

This line is therefore characterized by an unusually large spectrum since it encompasses the study of the cellular and molecular mechanisms leading to malformations, the biology of the malformed fetus and embryo, the prenatal chances for intervention on the malformations, and the postnatal operative and perioperative surgical and anesthetic management, including complex procedures as transplantation.

RESEARCH LINES

- Anesthesia, pain management and perioperative intensive care: To develop new procedures for improving safety and efficacy in anesthetic procedures, and to investigate the multiple problems of pain management and anaesthesia support.
- Vascular anomalies: To investigate genetic and molecular mechanisms involved in the pathogenesis of vascular anomalies, and to evaluate new treatments.
- Congenital malformations: To gain knowledge on the cellular and molecular mecha-



nisms of malformations using animal models, organ and cell cultures and eventually genetically engineered animals.

- Cardiovascular surgery: To assess different organ perfusion devices and to develop new strategies for graft perfusion.
- Ophthalmologic pathology: To investigate genetic and molecular mechanisms involved in the pathogenesis of ocular malformations and ocular rare diseases.

- Transplantation: To investigate new strategies for graft tolerance/avoidance of rejection and to analyze the impact of donation after circulatory death with normothermic reperfusion in pediatric transplantation. Additionally, the management of the conditions leading to organ failure would be included in our topics, like intestinal rehabilitation (intestinal transplantation), liver tumours (liver transplantation) and severe uropathies (renal transplantation).

RESEARCH ACTIVITY

● Publications

- Delgado-Miguel C, Camps JI. Robotic soave pull-through procedure for Hirschsprung's disease in children under 12-months: long-term outcomes. *Pediatr Surg Int.* 2022; 38(1): 51-7. Article. IF: 1.8; Q3
- Delgado-Miguel C, García A, Delgado B, Muñoz-Serrano A, Miguel-Ferrero M, Camps J I, López-Santamaría M, Martínez L. Incidental appendectomy in surgical treatment of ileocolic intussusception in children. Is it safe to perform? *Cir Pediatr.* 2022; 35(4): 165-71-. Article. Not Indexed
- Delgado-Miguel C, García A, Muñoz-Serrano AJ, López-Pereira P, Martínez-Urrutia MJ, Martínez L. The role of neutrophil-to-lymphocyte ratio as a predictor of testicular torsion in children. *J Pediatr Urol.* 2022; 18(5): 697. Article. IF: 2; Q3
- Delgado-Miguel C, Miguel-Ferrero M, Muñoz-Serrano A, Díaz M, López-Gutiérrez JC, de la Torre C. The use of acellular dermal matrix (integrated single layer) for the correction of malformative chest wall deformities: first case series reported. *Surg J (N Y).* 2022; 8(3): E187-91. Article. IF: 0.9; Q4
- Delgado-Miguel C, Muñoz-Serrano A, Amesty V, Rivas S, Lobato R, López-Pereira P, Urrutia MJM. Buried penis surgical treatment in children: Dorsal dartos flap VS. Fascia fixation. A retrospective cohort study. *J Pediatr Urol.* 2022; 18(2): 185. Article. IF: 2; Q3
- Delgado-Miguel C, Muñoz-Serrano A, Amesty V, Rivas S, Lobato R, Martínez-Urrutia MJ, López-Pereira P. Artificial urinary sphincter in congenital neuropathic bladder: Very long-term outcomes. *Int J Urol.* 2022; 29(7): 692-7. Article. IF: 2.6; Q3
- Delgado-Miguel C, Muñoz-Serrano A, Morati-

lla L, Sarmiento MD, Miguel-Ferrero M, Leal N, Barrena S, Martínez L. Indocyanine Green (ICG)-guided identification of hypermetabolic pancreatic nodules in focal congenital hyperinsulinism: A case report in a 3-month-old infant. *European J Pediatr Surg Rep.* 2022; 10(1): E9-12. Article. IF: 0.6; Q4

- Delgado-Miguel C, Muñoz-Serrano AJ, Miguel-Ferrero M, de Ceano-Vivas M, Calvo C, Martínez L. Complicated acute appendicitis during COVID-19 pandemic: The hidden epidemic in children. *Eur J Pediatr Surg.* 2022; 32(3): 268-73. Article. IF: 1.8; Q3
- Delgado-Miguel C, Urbán JG, Ferrer CD, Muñoz-Serrano A, Miguel-Ferrero M, Martínez L. Impact of the COVID-19 pandemic on acute appendicitis in children. *J Healthc Qual Res.* 2022; 37(4): 225-30. Article. IF: 1.2; Q4
- González-Iglesias E, López-Vázquez A, Noval S, Nieves-Moreno M, Granados-Fernández M, Arruti N, Rosa-Pérez I, Pacio-Miguez M, Montano VEF, Rodríguez-Solana P, del Pozo A, Santos-Simarro F, Vallespin E. Next-generation sequencing screening of 43 families with non-syndromic early-onset high myopia: a clinical and genetic study. *Int J Mol Sci.* 2022; 23(8): 4233. Article. IF: 5.6; Q1
- Muñoz-Serrano AJ, Delgado-Miguel C, Velayos M, Estefanía-Fernández K, Delfa SB, Zurita MB, Hernández F, Martínez L. Postoperative pneumoperitoneum in pediatric patients: residual air or surgical complication? a prospective study. *J Laparoendosc Adv S.* 2022; 32(5): 576-82. Article. IF: 1.3; Q4
- Pessanha I, Delgado-Miguel C, Alves H, Triana P, López-Gutiérrez JC. Venous malformations: what do phleboliths tell us in the pediatric population?

Pediatr Surg Int. 2022; 38(10): 1501-6. Article. IF: 1.8; Q3

- van Amstel P, El Ghazzaoui A, Hall NJ, Wester T, Morini F, van der Lee JH, Singer G, Pierro A, Zani A, Gorter RR, (Martínez Martínez L, Delgado Miguel C). Paediatric appendicitis: international study of management in the COVID-19 pandemic. *Brit J Surg.* 2022; 109(11): 1044-8. Article. IF: 9.6; D1
- Velayos M, Alonso M, Delgado-Miguel C, Estefanía-Fernández K, Muñoz-Serrano AJ, Santamaría MVL, Reinoso-Barbero F, de la Torre CA. Percutaneous cryoanalgesia: a new strategy for pain management in pectus excavatum surgery. *Eur J Pediatr Surg.* 2022; 32(1): 73-9. Article. IF: 1.8; Q3
- Velayos M, Estefanía-Fernández K, Muñoz-Serrano A J, Delgado-Miguel C, Sarmiento Caldas M C, Moratilla L, Beato Merino M J, Triana P, López-Gutiérrez J C. Diffuse hepatocutaneous hemangiomas: an unusual presentation. *Cir Pediatr.* 2022; 35(2): 99-101. Article. Not Indexed

● Research projects

Delgado Miguel C. Trasplante capilar de unidades foliculares en ratas sprague dawley con alopecia cicatricial secundaria a quemaduras. FIBHULP. 2022-Ongoing.

Management centre: FIBHULP

Hernández Oliveros F. Papel protector del hígado frente al rechazo en el trasplante multi-visceral. FIBHULP. 2022-Ongoing.

Management centre: FIBHULP

Hernández Oliveros F. Prevención del rechazo mediante transferencia adoptiva de linfocitos T regulatorios en un modelo experimental de trasplante intestinal (PI21/01332). ISCIII. 2022-2024.

Management centre:

Hernández Oliveros F. Programa clínico-experimental de donación pediátrica en asistencia controlada (). Fundación Mutua Madrileña. 2019-Ongoing.

Management centre: FIBHULP

Hernández Oliveros F. Trasplante: la primera red de comunicación para niños y adolescentes trasplantados (). Fundación Mutual Medica. 2020-Ongoing.

Management centre: FIBHULP

Hernández Oliveros F. TrasplanteAPP: la primera red de comunicación para niños y adolescentes trasplantados. Fundación Mapfre. 2020-Ongoing.

Management centre: FIBHULP

● Patents and trademarks

Hernández Oliveros F, Nana Gómez Mayoral N, Raya González L, Guijarro Fernández E, authors; FIBHULP, HePA, U-TAD, Guijarro Fernández E, assignees. Trade-mark name:VTR Virtual Transplant Reality; CM18.000.131;2018 December 14.