



3.7.7 Congenital Malformations and Transplantation



Publications: 51 | **Q1:** 17

COMPOSITION

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- **Paloma Triana Junco.** Facultativo Especialista de Área en Cirugía Pediátrica. Hospital Universitario La Paz
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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 targeted therapies
- Cardiovascular surgery: To assess different organ perfusion devices and to develop new strategies for graft perfusion.
- Congenital malformations: To gain knowledge on the cellular and molecular mechanisms of malformations using animal models, organ and cell cultures and eventually genetically engineered animals.
- 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

Doctoral theses

- **Roca Cabau MA.** Evolución del tratamiento del retinoblastoma en las últimas décadas en un hospital terciario español.[dissertation]. *Madrid: UAM: 2023(05/07/2023). Director: Peralta Calvo J.*
- **Triana Junco P.** Sirolimus en el tratamiento de anomalías vasculares[dissertation]. *Madrid: UAM: 2023(21/06/2023). Director: López Gutiérrez JC*



3.7 Maternal Infant Child and Youth Research Area

Publications

- **Abate JC, Lausada N, Dezillio LV, Moreira J, Marinoff II, Compagnucci MMF, Moreno AMA, Largo C, Rumbo M, Oliveros FH, Romanin D, Stringa P.** When less is more: Experimental Bishop-Koop technique for reduction in the use of laboratory animals for intestinal pathophysiological studies. *Lab Anim-Uk*. 2023; 57(4): 443-54. Article. IF: 1.3; Q2
- **Alonso-Prieto M, Pujol D, Salmerón MA, Vivas-Lacalle MD, Villalobos AO, Moreno MM, Morán GG, Torres-Luna R, Miró J, Reinoso-Barbero F.** Clinical differences in a multidisciplinary pediatric pain unit between primary and secondary chronic pain. *Rev Esp Anestesiología Reanim*. 2023; 70(3): 148-55. Article. IF: 0.9; Q3
- **Andrés AM, Encinas JL, Sánchez-Galán A, Rodríguez JS, Estefanía K, Sacristán RG, Alcolea A, Serrano P, Estébanez B, Leon IV, Burgos P, Rocafort AG, Ramchandani B, Calderón B, Verdú C, Jiménez E, Talayero P, Stringa P, Navarro ID, Ramos E, Oliveros FH.** First case report of multi-visceral transplant from a deceased cardiac death donor. *Am J Transplant*. 2023; 23(4): 577-81. Article. IF: 8.9; D1
- **Andrés Moreno AM, Ramos Boluda E, Hernández Oliveros F.** Pediatric intestinal failure: an update. *Cir Pediatr*. 2023; 36(3): 97-109. Article. Not indexed
- **Arruti N, Rodríguez-Solana P, Nieves-Moreno M, Guerrero-Carretero M, del Pozo A, Montañó VEF, Santos-Simarro F, Rikeros-Orozco E, Delgado-Mora L, Vallespín E, Noval S.** OPA1 dominant optic atrophy: diagnostic approach in the pediatric population. *Curr Issues Mol Biol*. 2023; 45(1): 465-478. Article. IF: 2.8; Q3
- **Delgado-Miguel C, Camps JI.** Robotic-assisted versus laparoscopic redo antireflux surgery in children: A cost-effectiveness study. *Int J Med Robot Comp*. 2023; 19(6): e2541. Article. IF: 2.3; Q2
- **Delgado-Miguel C, de la Torre C, Castro L, Oliveros FH.** Type III laryngo-tracheo-oesophageal cleft repair without tracheostomy in neonate with long-gap oesophageal atresia. *Acta Otorhinolaryngol*. 2023; 43(4): 291-3. Letter. IF: 2.1; Q2
- **Delgado-Miguel C, Estefanía K, Basilio MS, Oliveros FH.** Indocyanine green navigation in minimally invasive resection of multiple metachronous pulmonary metastases of hepatoblastoma. *Thorac Cancer*. 2023; 14(5): 528-32. Article. IF: 2.3; Q3
- **Delgado-Miguel C, Fernández P, Muñoz-Serrano A, Aguado P, Fuentes E, Díez R.** Minimally invasive resection of symptomatic bifid intrathoracic rib. *Pediatr Pulm*. 2023; 58(6): 1818-20. Letter. IF: 2.7; Q1
- **Delgado-Miguel C, López-Pereira P.** Response to commentary re simultaneous bladder augmentation and artificial urinary sphincter placement in children with neuropathic urinary incontinence. Is it safe to perform? Long-term results. *J Pediatr Urol*. 2023; 19(3): 306-7. Letter. IF: 2.0; Q2
- **Delgado-Miguel C, López-Santamaría M, Oliveros FH.** The role of indocyanine green navigation in choledochal cyst surgery. *Indian J Surg*. 2023; 85(5): 1272-4. Article. IF: 0.4; Q4
- **Delgado-Miguel C, Marín E, Oliveros FH.** Coeliac trunk aneurysm repair with aorto-hepatic biosynthetic bypass in a paediatric patient. *Eur J Vasc Endovasc*. 2023; 66(1): 150. Editorial Material. IF: 5.7; Q1
- **Delgado-Miguel C, Martínez-Urrutia MJ, Espinosa L, Martínez L, Espinosa LG, Lobato R, Rivas S, Díez R, López-Pereira P, Oliveros FH.** Neutrophil-to-lymphocyte ratio as a predictor of primary vesicoureteral reflux evolution in children with associated acute pyelonephritis. *Transl Pediatr*. 2023; 12(11): 1971-80. Article. IF: 1.5; Q2
- **Delgado-Miguel C, Miguel-Ferrero M.** Preliminary results of the use of carboxytherapy in the treatment of pathologic scars: A minimally invasive alternative. *J Pediatr Surg*. 2023; 58(4): 679-83. Article. IF: 2.4; Q1
- **Delgado-Miguel C, Miguel-Ferrero M, Basilio MS, Ramírez C, Camps J, Oliveros FH.** How does the number of training years in pediatric surgery affect appendectomy outcomes? *Pediatr Surg Int*. 2023; 39(1): 168. Editorial Material. IF: 1.5; Q2
- **Delgado-Miguel C, Miguel-Ferrero M, De Lucas-Laguna R.** Misdiagnosis in epidermolysis bullosa: yet another burden on patients and their families. *Actas Dermosifiliogr*. 2023; 114(9): 825-6. Editorial Material. IF: 3.8; Q1
- **Delgado-Miguel C, Miguel-Ferrero M, De Miguel B, Díaz M, López-Gutiérrez JC, De Ceano-Vivas M.** Pediatric burns debridement under sedoanalgesia during the covid-19 pandemic: a cost-effective alternative. *Clin Pediatr*. 2023; 62(9): 1080-6. Article. IF: 1.0; Q3
- **Delgado-Miguel C, Miguel-Ferrero M, Delgado B, Alberio GE, Camps J, López-Santamaría M, Oliveros FH.** Mucosal appendicitis: How can it be differentiated from nonappendicitis? *Am J Clin Pathol*. 2023; 160(5): 500-6. Article. IF: 2.3; Q2
- **Delgado-Miguel C, Miguel-Ferrero M, Díaz M, Camps J, López-Gutiérrez JC.** Acellular flowable dermal matrix for ostomy reconstruction: a safe and effective minimally invasive technique. *Wound Manag Prev*. 2023; 69(4): 22080. Article. IF: 1.0; Q4
- **Delgado-Miguel C, Miguel-Ferrero M, Díaz M, Triana P, Beato M, de Lucas-Laguna R, López-Gutiérrez JC.** Multifocal rapidly involuting congenital haemangiomas. *J Eur Acad Dermatol*. 2023; 37(8): E1025-7. Letter. IF: 8.4; D1
- **Delgado-Miguel C, Miguel-Ferrero M, Ezquerro A, Díaz M, de Ceano-Vivas M, López-Gutiérrez JC.** Sedoanalgesia in the debridement of pediatric burns in the emergency department: is it effective and safe? *Children (Basel)*. 2023; 10(7): 1137. Article. IF: 2.0; Q2
- **Delgado-Miguel C, Miguel-Ferrero M, García A, Delgado B, Camps J, Martínez L.** Neutrophil-to-lymphocyte ratio as a predictor of postoperative complications and readmissions after appendectomy in children. *Updates Surg*. 2023; 75(8): 2273-8. Article. IF: 2.4; Q2
- **Delgado-Miguel C, Muñoz-Serrano A, Amestey V, Rivas S, Lobato R, Martínez-Urrutia MJ, López-Pereira P.** Simultaneous bladder augmentation and artificial urinary sphincter placement in children with neuropathic urinary incontinence. Is it safe to perform? Long-term results. *J Pediatr Urol*. 2023; 19(3): 297-303. Article. IF: 2.0; Q2
- **Delgado-Miguel C, Muñoz-Serrano A, Basilio MS, Miguel-Ferrero M, de Ceano-Vivas M, Martínez L.** The role of the neutrophil-to-lymphocyte ratio in avoiding negative appendectomies. *An Pediatr*. 2023; 98(1): 12-8. Article. IF: 1.5; Q2
- **Delgado-Miguel C, Muñoz-Serrano A, Delgado B, Miguel-Ferrero M, Camps J, Díez R, López-Santamaría M, Martínez L.** Neutrophil-to-lymphocyte ratio: correlation with length of hospital stay in children with acute appendicitis. *Indian J Pediatr*. 2023; 90(10): 1049. Letter. IF: 2.1; Q2
- **Delgado-Miguel C, Muñoz-Serrano AJ, Estefanía K, Velayos M, Miguel-Ferrero M, Martínez L.** Matrix cauterization with silver nitrate in the treatment of ingrown toenails in children: pilot study. *Actas Dermosifiliogr*. 2023; 114(1): 19-24. Article. IF: 3.8; Q1
- **Delgado-Miguel C, Muñoz-Serrano AJ, Moratilla L, Miguel-Ferrero M, Delgado B, Camps J, López-Santamaría M, Martínez L.** Neutrophil-to-lymphocyte ratio as a predictor of surgical site infection in acute appendicitis. *Transl Pediatr*. 2023; 12(4): 552-9. Article. IF: 1.5; Q2
- **Delgado-Miguel C, Triana P, Miguel-Ferrero M, Díaz M, Hierro L, Lara P, López-Gutiérrez JC, Oliveros FH.** Mortality predictive factors in congenital hepatic hemangioma: a case-control study. *Eur J Pediatr*. 2023; 182(4): 1657-63. Article. IF: 3.0; Q1
- **García-Sánchez P, Aguilar-Valero E, Sainz T, Calvo C, Iglesias I, Bueno D, Frauca E, Ramos-Boluda E, Alcolea-Sánchez A, García-Guereta L, Alonso-Melgar A, Esperón F, Méndez-Echevarría A.** Immunocompromised children and young patients living with pets: gaps in knowledge to avoid zoonosis. *Transbound Emerg Dis*. 2023; 2023: 2151761. Article. IF: 3.5; Q2
- **González-Atienza C, Sánchez-Cazorla E, Villoldo-Fernández N, del Hierro A, Boto A, Guerrero-Carretero M, Nieves-Moreno M, Arruti N, Rodríguez-Solana P, Mena R, Rodríguez-Jiménez C, Rosa-Pérez I, Acal JC, Blasco J, Naranjo-Castresana M, Ruz-Caracul B, Montañó VEF, Patrón CO, Rubio-Martín ME, García-Fernández L, Rikeros-Orozco E, Gómez-Cano MD, Delgado-Mora L, Noval S, Vallespín E.** Whole-exome sequencing of 24 Spanish families: candidate genes for non-syndromic pediatric keratoconus. *Genes (Basel)*. 2023; 14(10): 1838. Article. IF: 2.8; Q2
- **Hernández Oliveros F, Alcolea Sánchez A, Ramos Boluda E, Andrés Moreno A.** Intestinal and multivisceral transplantation. *Cir Pediatr*. 2023; 36(2): 50-9. Article. Not indexed
- **Lasa-Lázaro M, Ramos-Boluda E, Mancebo E, Castro-Panete MJ, González-Sacristán R, Serra**



- dilla J, Andrés-Moreno AM, Hernández-Oliveros F, Paz-Artal E, Talayero P. Antibody-removal therapies for de novo DSA in pediatric intestinal recipients: Why, when, and how? A single-center experience. *Front Pediatr*. 2023; 10: 1074577. Article. IF: 2.1; Q2
- Lledín MD, Parrón-Pajares M, Morais A, Hernández-Oliveros F, Botella-Carretero JI, Hierro L. Impact of muscle mass on the prognosis of liver transplantation for infants with biliary atresia. *Front Pediatr*. 2023; 10: 1093880. Article. IF: 2.1; Q2
 - Miguel-Ferrero M, Delgado-Miguel C, Díaz M, López-Gutiérrez JC. Toxic epidermal necrolysis management with Suprathel™. *An Pediatr*. 2023; 99(6): 449-50. Editorial Material. IF: 1.5; Q2
 - Miro J, Sole E, Castarlenas E, Ingelmo P, Nolla MC, Escribano J, Reinoso-Barbero F. The Treatment of pediatric pain in Spain: A survey study. *Int J Env Res Pub He*. 2023; 20(3): 2484. Article. Not indexed
 - Moreno-Alfonso JC, Berenguer MS, Caldas MDS, Cayón JG, de la Puente S, Triana P, López-Gutiérrez JC. Successful sirolimus treatment for recurrent pericardial effusion in a large cervicomedial anomaly: a case report. *European J Pediatr Surg Rep*. 2023; 11(1): E20-4. Article. IF: 0.6; Q4
 - Moreno-Alfonso JC, Triana-Junco PE, Miguel-Ferrero M, Díaz-González M, López-Gutiérrez JC. Sequelae of surgery for lymphatic malformations. *An Pediatr*. 2023; 99(4): 266-7. Letter. IF: 1.5; Q2
 - Peiro JL, Duru S, Fernández-Tome B, Peiro L, Encinas JL, Sánchez-Margallo FM, Oria M. Fetal endoscopic third ventriculostomy is technically feasible in prenatally induced hydrocephalus ovine model. *Neurosurgery*. 2023; 92(6): 1303-11. Article. IF: 3.9; Q1
 - Pérez Costoya C, Gomez Farpon A, Hernández Oliveros F, Soto Verdugo V, Álvarez Muñoz V, García Bernardo C M. Conservative treatment of suprahepatic pseudoaneurysm in a pediatric patient. *Cir Pediatr*. 2023; 36(2): 93-6. Article. Not indexed
 - Reinoso-Barbero F, Sanabria-Carretero P, Alonso-Prieto M. Sevoflurane versus propofol for LMA® removal in awake children: more respiratory adverse effects or faster recovery of airway reflexes in more awake children? *Anesth Analg*. 2023; 137(1): E4-5. Article. IF: 4.6; D1
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 - Sánchez-Cazorla E, González-Atienza C, López-Vázquez A, Arruti N, Nieves-Moreno M, Noval S, Mena R, Rodríguez-Jiménez C, Rodríguez-Solana P, González-Iglesias E, Guerrero-Carretero M, Mardero OD, Coca-Robinot J, Acal JC, Blasco J, Castañeda C, Maya JF, Del Pozo A, Gómez-Pozo MV, Montañó VEF, Dios-Blázquez LD, Rodríguez-Antolín C, Gómez-Cano MD, Delgado-Mora L, Vallespin E. Whole-exome sequencing of 21 families: candidate genes for early-onset high myopia. *Int J Mol Sci*. 2023; 24(21): 15676. Article. IF: 4.9; Q1
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- FIBHULP. 2022-Ongoing. *Managment 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. *Managment centre:*
 - Hernández Oliveros F. Programa clínico-experimental de donación pediátrica en asistolia controlada. Fundación Mutua Madrileña. 2019-Ongoing. *Managment centre: FIBHULP*
 - Hernández Oliveros F. Trasplantapp: la primera red de comunicación para niños y adolescentes trasplantados. Fundación Mapfre. 2020-Ongoing. *Managment centre: FIBHULP*
 - López Gutiérrez JC. Estudio genetico, clinico e inmunohistoquimico de la osteolisis en pacientes nf. Fundación Proyecto Neurofibromatosis. 2021-2023. *Managment centre: FIBHULP*
 - Nieves Moreno M. Estrategia para el diagnóstico integral del nistagmus: estudio de función visual, pronóstico y genetico. En busca de biomarcadores. Varios Financiadores. 2023-. *Managment centre: FIBHULP*
- ### Clinical trials
- López Gutiérrez JC. EPIK-L1. A two-stage double-blind, randomized, placebo-controlled study to asses the efficacy, safety and pharmacokinetics of alpelisib in pediatric and adult patients with lymphatic malformations associated with a PIK-3CA mutation.
Type/Phase: II
Sponsored by: Novartis Pharma Services
Signed date: 28/11/2023.
- ### 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. Trademark name: VTR Virtual Transplant Reality; CM18.000.131; 2018 December 14.