



3.7.7 Congenital Malformations and Transplantation

Publications: 17 | Q1: 7

COMPOSITION

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- **Leandro Vecchio Dezillio.** Investigador Postdoctoral. FIBHULP
- **Alejandra Vilanova Sánchez.** Facultativo Especialista en Cirugía Pediátrica. Hospital Universitario La Paz

STRATEGIC OBJETIVES

- 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.
- Oftalmologic 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

- Bilbao I, Lladó L, Cachero A, Campos-Varela I, Colmenero J, del Hoyo J, García EF, Pajares FG, Diéguez LG, Grande RG, Sánchez AG, Oliveros FH, Santos JIH, Lorente S, Mateos RM, López MJM, Alvarez JLM, Codoceo CM, Ferreiro AO, Nieto EO, Soler MR, Cristóbal MR, Oliver LS, Labiano MS, Martín JMS, Trapero-Marugán M, Varo E, de la Rosa G, Rodríguez-Perálvarez ML. First consensus document of waiting list prioritization for liver transplantation by the Spanish Society of Liver Transplantation (SETH). Rev Esp Enferm Dig. 2024; 116(12): 680-9. Article. IF: 4.0; Q3
- Delgado-Miguel C, Aguado P, Fuentes E, Díez R. Neonatal Paratesticular Abscess as the Greatest Mimicker of Testicular Torsion. Urol Int. 2024; 108(2): 172-4. Article. IF: 1.3; Q3
- Delgado-Miguel C, Amarnath RP, Camps

- JI. Robotic-assisted vs. Laparoscopic Heller's Myotomy for Achalasia in Children. J Pediatr Surg. 2024; 59(6): 1072-6. Article. IF: 2.5; Q1
- Delgado-Miguel C, Arredondo-Montero J, Moreno-Alfonso JC, San Basilio M, Pérez RP, Carrera N, Aguado P, Fuentes E, Díez R, Hernández-Oliveros F. The Role of Neutrophil-to-Lymphocyte Ratio as a Predictor of Ovarian Torsion in Children: Results of a Multicentric Study. Life (Basel). 2024; 14(7): 889. Article. IF: 3.4; Q1
- Delgado-Miguel C, Camps JI. Robotic-assisted versus laparoscopic splenectomy in children: a costeffectiveness study. J Robot Surg. 2024; 18(1): 51. Article. IF: 3.0; Q1
- Delgado-Miguel C, Díez R. Isolated Severe Congenital Penile Torsion of 180 Degrees. Indian Pediatr. 2024; 61(4): 398. Article. IF: 1.5; Q3
- Delgado-Miguel C, Morán AG, Gómez LF,

3 Research areas and groups

- Díaz M, Miguel-Ferrero M, López-Gutiérrez JC. Comparison of the effectiveness of three different skin substitutes for the treatment of pediatric burns. *Eur J Pediatr*. 2024; 184(1): 80. Article. IF: 2.6; Q1
- Delgado-Miguel C, Muñoz-Serrano AJ, Aguado P, Fuentes E, Díez R. Ureteroinguinal Herniation with Consecutive Ureteral Stricture in a 2-Month-Old Infant: Case Report. *European J Pediatr Surg Rep*. 2024; 12(1): e16-9. Article. IF: 0.7; Q4
 - Delgado-Miguel C, Reparaz L, Clarkson W, Desai K, Camps JI. Colorectal Robotic-Assisted Surgery in Children. Long-Term Outcomes and Pitfalls. *Int J Med Robot Comp*. 2024; 20(6): e70032. Article. IF: 2.1; Q2
 - Delgado-Miguel C, Vincent S, Miguel-Ferrero M, López-Gutiérrez JC. Neonatal Severe Staphylococcal Scalded Skin Syndrome: Management with Autoadhesive Skin Substitute Dressing (Suprathel®). *Indian J Pediatr*. 2024; 91(9): 984. Letter. IF: 2.0; Q2
 - Garrido-Bolton J, Alcamí-Pertejo M, de la Vega R, Hernández-Oliveros F, Pérez-Martínez A, Bravo-Ortiz MF, Fernández-Jiménez E. Neuropsychological and biopsychosocial evolution, therapeutic adherence and unmet care needs during paediatric transplantation: study protocol of a mixed-methods design (observational cohort study and focus groups) - the TransplantKIDS mental health project. *Front Psychol*. 2024; 15: 1308418. Article. IF: 2.9; Q1
 - Ivars M, Frieden IJ, Provini L, Wassef M, Weibel L, Theiler M, Lanoel A, Martínez-Glez V, Rodríguez-Laguna L, van der Vleuten C, Guibaud L, Puttgen K, Azaña-Defez JM, Chamlin S, Drolet B, Torres N, Wyrzykowski D, Colmenero I, López-Gutiérrez JC. Segmental congenital vascular anomaly with atrophy, ulceration, and scarring (SeCVAUS): Case series and review of literature. *Pediatr Dermatol*. 2024; 41(6): 1063-76. Article. IF: 1.2; Q3
 - Li WH, van der Doef HPJ, Wildhaber BE, Marra P, Bravi M, Pinelli D, Minetto J, Dip M, Sierre S, de Santibaños M, Ardiles V, Uno

- JW, Hardikar W, Bates S, Goh L, Aldrian D, Seisenbacher J, Vogel GF, Neto JS, da Fonseca EA, Costa CM, Ferreira CT, Nader LS, Farina MA, Dajani KZ, Parente A, Bigam DL, Liang TB, Bai XL, Zhang W, Gonsorciková L, Fronek J, Bohus S, Franchi-Abella S, Gonzales E, Guérin F, Junge N, Baumann U, Richter N, Hartleif S, Sturm E, Rajakannu M, Palaniappan K, Rela M, Pawaria A, Rajakrishnan H, Surendran S, Kumar M, Agarwal S, Gupta S, Asthana S, Bandewar V, Raichurkar K, Spada M, Monti L, Alterio T, Yanagi Y, Uchida H, Komine R, Evans H, Carr-Boyd P, Duncan D, Stefanowicz M, Latka-Grot J, Kolesnik A, Broering DC, Raptis DA, Marquez KAH, Mali V, Aw M, Beretta M, Van der Schyff F, Quintero-Bernabeu J, Mercadal-Hally M, Larrarte K M, Andrés AM, Hernández-Oliveros F, Frauca E, Casswall T, Jorns C, Delle M, Gupta G, Sharif K, McGuirk S, Superina R, Caicedo JC, Jaramillo C, Bitterfeld L, Kastenber Z, Shah AA, Domenick B, Acord MR, Mazariegos GV, Soltys K, DiNorcia J, Antala S, Florman SS, Buchholz BM, Herden U, Fischer L, Dierckx RAJO, Hartog H, Bokkers RPH. Incidence, management and outcomes in hepatic artery complications after paediatric liver transplantation: protocol of the retrospective, international, multicentre HEPATIC Registry. *BMJ Open*. 2024; 14(6): e081933. Article. IF: 2.3; Q2
- Medio P, Matesanz S, Margareto M, Ostos P, Palomo C, Oliveros FH, Moreno AA. Outcomes of Pediatric Hepatocellular Carcinoma: A Single-Center Experience With Resection Versus Transplantation. *Pediatr Transplant*. 2024; 28(8): e14882. Article. IF: 1.4; Q3
 - Montero J, Rico-Jiménez M, Riveros BP, Atuan R, Pakkasjärvi N, Krishnan N, Delgado-Miguel C, Anand S. Role of type I hypersensitivity reaction in the development of overall and uncomplicated acute appendicitis: a systematic review and meta-analysis. *Curr Prob Surg*. 2024; 61(9): 101551. Review. IF: 1.9; Q2
 - Moreno-Alfonso JC, Triana P, Ferrero MM, González MD, Gutiérrez JCL. Risk factors

- for sequelae after surgery for lymphatic malformations in children. *J Vasc Surg Venous Lymphat Disord*. 2024; 12(2): 101730. Article. IF: 3.0; Q1
- Ramírez-Amoros C, Carvalho C, Basilio MS, Martínez L, Encinas JL, Vilanova-Sánchez A. Classic divided sigmoidostomy vs loop sigmoidostomy in anorectal malformations: time for change?. *Pediatr Surg Int*. 2024; 40(1): -252. Article. IF: 1.6; Q2

Research projects

- Andrés Moreno AM. Influencia del hígado en el injerto intestinal. Estudio de su papel protector de rechazo. Sociedad Madrileña de Trasplantes. 2023-Ongoing. **Managment centre:** FIBHULP
- Delgado Miguel C. Trasplante capilar de unidades foliculares en ratas sprague dawley con alopecia cicatricial secundaria a quemaduras. FIBHULP. 2022-Ongoing. **Managment centre:** FIBHULP
- Hernández Oliveros F. Papel protector del hígado frente al rechazo en el trasplante multivisceral. FIBHULP. 2022-Ongoing. **Managment centre:** FIBHULP
- Hernández Oliveros F. Prevención del rechazo mediante transferencia adoptiva de linfocitos T reguladores en un modelo experimental de trasplante intestinal (PI21/01332). ISCIII. 2022-2026. **Managment centre:** FIBHULP
- Hernández Oliveros F. Trasplantapp: la primera red de comunicación para niños y adolescentes trasplantados. Fundación Mapfre. 2020-Ongoing. **Managment centre:** FIBHULP
- Nieves Moreno M. Estrategia para el diagnóstico integral del nistagmus: estudio de función visual, pronóstico y genético. En busca de biomarcadores. Varios Financiadores. 2023-Ongoing. **Managment centre:** FIBHULP
- Andrés Moreno AM. Desarrollo y aplicación terapéutica de un sistema de perfusión normotérmica extracorpórea en trasplante intestinal: el final de la edad de hielo (PI23/01189). ISCIII. 2024-2026. **Managment centre:** FIBHULP
- Hernández Oliveros F. ERN TransplantChild. EU. 2023-2027. **Managment centre:** FIBHULP

3 Research areas and groups

3.7. Maternal Infant Child and Youth Research

- Hernández Oliveros F. Estudio clínico y experimental de inducción de tolerancia operacional mediante la combinación de trasplante de progenitores hematopoyéticos y trasplante de órgano sólido (AP-16022/2024). Fundación Mutua Madrileña. 2024-2027. **Managment centre:** FIBHULP
- López Gutiérrez JC. Trasplante de unidades foliculares en niños con alopecia cicatricial. Proyecto experimental con traslación clínica. (PI23/01464). ISCIII. 2024-2026. **Managment centre:** FIBHULP
- Triana Junco P. Estudio genético y funcional en pacientes con enfermedades de Gorham-Stout y anomalías linfáticas generalizadas. The Lymphatic Malformation Institute. 2018-Ongoing. **Managment centre:** FIBHULP

Clinical trials

- "López Gutiérrez JC. EPIK-P2 Estudio de fase II doble ciego con un periodo inicial aleatorizado, controlado con placebo y de 16 semanas de duración para evaluar la eficacia, la seguridad y la farmacocinética de alpelisib (bvl719) en pacientes pediátricos y adultos con síndrome de sobrecrecimiento asociado a pik3ca. **Type/Phase:** II
Sponsored by: Novartis Farmaceutica S.A.
Signature date: 08/07/2024

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.