



5.1.5 Translational Medicine Area

General and Digestive Surgery

Group leader

Moral Duarte, Antonio (FGS)

Researchers

Ballester Vazquez, Eulalia (FGS)
 Bollo Rodríguez, Jesus Manuel (FGS)
 Clos Enríquez, Montserrat (FGS)
 Escobar Lezcano, Lilian María (FGS)
 Espina Pérez, Beatriz (FGS)
 Fernández Ananin, Sónia (FGS)
 García Romera, Angel (FGS)
 González López, Jose Antonio (FGS)
 Hernandez Casanovas, Maria Pilar (FGS)
 Julia Verdaguer, Elisabet (FGS)
 Martín Arnau, Ana Belén (FGS)
 Martínez Sánchez, María Del Carmen (FGS)
 Medrano Caviedes, Rodrigo Gustavo (FGS)
 Molina Santos, Victor (FGS)
 Pérez García, Jose Ignacio (FGS)
 Pérez Romero, Noelia (FGS)
 Pino Pérez, Oriol (FGS)
 Rofin Serra, Silvia (FGS)
 Sánchez Cabus, Santiago (FGS)
 Sánchez López, Anna (FGS)
 Santanach Soler, Clara (FGS)
 Solans Solerdelcoll, Mireia (FGS)
 Targarona Soler, Eduardo María (FGS)



DESCRIPTION

- General Surgery Unit

A research group in the treatment of mesenchymal tumors, especially retroperitoneal sarcomas, with lines of research in surgical techniques and new technologies for the application of local chemotherapy in the retroperitoneum. Endocrine, breast, and abdominal wall surgery. Research and dissemination of incisional hernia prevention techniques.

- Hepatopancreatic Surgery Unit

Our group's objective is research on different topics: liver surgery (liver metastases, hepatocellular carcinoma, other liver lesions), pancreatic surgery (pancreatic cancer, neuroendocrine tumors, IPMN, other types of pancreatic lesions), bile duct surgery, and minimally invasive surgery in general of the HBP field.

- Gastrointestinal Surgery Unit

The research carried out in the Esophagogastric and Bariatric Surgery Unit is mainly clinical and translational. It includes different lines of research focused mainly on the analysis of the diagnostic process and the treatment of gastric cancer and on revisional surgery of the esophagogastric junction pathology. In the field of bariatric surgery, studies have focused particularly on the results obtained in the elderly population.

The colorectal surgery unit develops research based on clinical parameters. its main lines of research include malignant and benign colorectal pathology, with special interest in quality of life and functional alterations after rectal cancer treatment. it also highlights the creation in the last two years of the functional unit of advanced proctology-HPV.



5.1.5 Translational Medicine Area

- Emergency and Critical Care Surgery Unit

The research carried out in the Emergency and Critical Care Surgery Unit is mainly clinical and translational. It includes different lines of research focused mainly on the analysis of the diagnostic process and the treatment of severely injured patient after trauma and on emergency surgery, specially in bowel ischemia and damage control surgery on non-traumatic patients..

MAIN LINES OF RESEARCH

General Surgery Unit

- Surgery of the thyroid gland. Research on thyroid cancer.
- Advanced surgery on parathyroid glands (primary and secondary hyperparathyroidism).
- Adrenal surgery.
- Surgery for sarcomas: participation in the development and results of surgery for retroperitoneal tumours.
- Surgery for sarcomas: participation in GIST research through the Spanish Sarcoma Research Group (GEIS) and other entities.
- Surgery of advanced gynecological tumors.
- Advanced surgery of abdominal wall. New techniques for ventral hernia repair.
- Dr. José A González and Dra. Mireia Solans: lines of research in surgical techniques and new technologies for the application of local chemotherapy in the retroperitoneum.
- Dr. José A González Dra. Mireia Solans: Research and dissemination of incisional hernia prevention techniques.

Hepatobiliarypancreatic Surgery Unit

- Pancreatic cancer: Dr. Sánchez Cabús, Dr. García Romera
- Liver cancer: Dr. Víctor Molina, Dr. Sánchez Cabús
- Biliary pathology: Dr. Belén Martín, Dr. Sánchez Cabús

Gastrointestinal Surgery Unit

- Surgical reinterventions after failed hiatal hernia repair or antireflux surgery (IP: Sónia Fernández Ananín)

- Obesity in elderly population (IP: Sónia Fernández Ananín)
- Consequences of sarcopenia after bariatric surgery (IP: Noelia Pérez)
- Analysis of cruroplasty closure in paraesophageal hernias (IP: Sónia Fernández Ananín)
- Laparoscopic approach to gastric non-epithelial tumors: do size and location matter? (IP: Sónia Fernández Ananín)
- Analysis of the diagnostic process and the treatment of early gastric cancer precocious gastric (IP: Noelia Pérez)
- Implementation of an App for the control of anterior resection syndrome (IP: Carmen Martínez).
- Quality of life and functional alterations in rectal cancer (IP: Carmen Martínez).
- Diagnosis and treatment of anal dysplasia in the immunodeprimal patient (IP: Carmen Martínez).

Emergency and Critical Care Surgery Unit

- Safe practices for polytraumatized patients.
- Safe practices for polytraumatized patients in a Multicentric collaborative database through the Catalan Trauma Database - TraumaCAT.
- Clinical safety for fragile and elder patients in emergency surgery and care through an accredited Geriatric Emergency department by the American College of Physicians at our Hospital.
- Emergency surgical Treatment for aorta-enteric fistulae in collaboration with the Vascular Surgery Department.
- Ambulatory treatment on non-complicated Diverticulitis.
- Open Abdomen and Damage Control Surgery in non-traumatic Patients.
- Good practices in emergency surgery for prevention of burst abdomen and acquired abdominal hernia after surgery.
- Good practices in emergency surgery for small bowel occlusion syndrome.

SCIENTIFIC CHALLENGES

Breast Surgery

- Technological innovations in surgery.



5.1.5 Translational Medicine Area

- Possible role of genetic studies in diagnosis and follow-up.
- Endocrine and Cervical Surgery.
- Technical innovations in surgery.

Hepato Bilio Pancreatic Surgery Unit

- To contribute to the improvement of survival and quality of life of patients affected by pathologies related to the liver, pancreas, and bile duct. Promote research and development in diseases in the area as well as focus on their surgical treatment, especially through the minimally invasive approach.

Gastrointestinal Surgery Unit

- Experimental surgery program and collaboration with an IR working group.

ACTIVE GRANTS

- Fernández Ananin, Sónia. Impacto de la técnica de cierre del hiato esofágico en las hernias paraesofágicas sobre la recidiva herniaria. Estudio comparativo entre sutura continua barbada versus puntos interrumpidos en X. IIBSP-HPE-2022-53. Duration: 2022-2023.
- Moral Duarte, Antonio. Adiposidad, inflamación y la desregulación del colesterol en el carcinoma de tiroides. Evaluación de estrategias terapéuticas basadas en la reducción del colesterol y la activación de LXR. PI19/00136. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2023. 111.320,00 €.

SCIENTIFIC PRODUCTION

- Alvarez RA, Manzano A, Pujol CA, Raventos VA, Correa R, Jurado JC, Fernández JA, del Muro XG, Gonzalez JA, Hindi N, Lominchar PL, Martinez J, Mendez R, Munoz M, Casares CM, Castellanos FO, Fernández RO, Gonzalez MP, Redondo A, Morales CV, Asencio JM. Updated Review and Clinical Recommendations for the Diagnosis and Treatment of Patients with Retroperitoneal Sarcoma by the Spanish Sarcoma Research Group (GEIS). *Cancers*. 2023; 15(12):3194. DOI:10.3390/cancers15123194. PMID:37370803. IF:5,200 (Q2/3D). Document type: Review.
- Balla A, Saraceno F, Rullo M, Morales S, Soler E, Di S, Guerrieri M, Lepiane P, Di N, Adamina M, Alarcon I, Arezzo A, Rodríguez JB, Boni L, Biondo S,

Carrano FM, Chand M, Jenkins JT, Davies J, Rivilla SD, Delrio P, Elmore U, Espin E, Fichera A, Lorente BF, Francis N, Ruiz MG, Hahnloser D, Licardie E, Martinez C, Ortenzi M, Panis Y, Idoate CP, Paganini AM, Pera M, Perinotti R, Popowich DA, Rockall T, Rosati R, Sartori A, Scoglio D, Shalaby M, Fernández VS, Smart NJ, Spinelli A, Sylla P, Tanis PJ, Valdes J, Wexner SD, Sileri P. Protective ileostomy creation after anterior resection of the rectum: Shared decision-making or still subjective?. *Colorectal Disease*. 2023; 25(4). DOI:10.1111/codi.16454. PMID:36527323. IF:3,400 (Q1/2D). Document type: Article.

• Cerdán C, Cano Ó, Santos R, Terés LB, Vigorita V, Pérez TP, Rosciano JG, Paredes JP, Carre MK, Flor B, Antona FB, Martín EY, Tebar JC, Cao IA, Coltell ZB, Alonso MG, Prada BL, Riesco AB, Cánovas NI, Sánchez CM, Serrat DR, Conde GA, Toscano MJ, Aira AC, Pérez MR, Petit NM, Espín E, Carré MK, Pellino G, Retuerta JM, Saldaña AG, Laso CÁ, Allende IA, Álvarez DH, Cazador AC, Sánchez WM, Torres MT, Bonito AC, Velázquez MC, Díaz OM, Fuentes NS, Olías MDCLV, Lorente BF, Valderrama ÓC, Santacruz CC, Collaborating group for the study of long C, Spanish Rectal Cancer Project (. "Long-term oncologic outcomes and risk factors for distant recurrence after pathologic complete response following neoadjuvant treatment for locally advanced rectal cancer. A nationwide, multicentre study". *EJSO*. 2023; 49(10):106962. DOI:10.1016/j.ejso.2023.06.014. PMID:37414628. IF:3,800 (Q1/2D). Document type: Article.

- Clàudia C, López AS, Rocío L, Irene M, Pilar H, Carmen M, Jesús B, Eduardo MT. Laparoscopic anterior resection of a deep infiltrating rectal endometriosis: A Video Vignette. *Colorectal Disease*. 2023; DOI:10.1111/codi.16819. PMID:38124238. IF:3,400 (Q1/2D). Document type: Letter.
- Escuin D, López L, Bell O, Mora J, García B, Moral A, Clos M, Boronat L, Arquerol C, Barnadas A. Circulating miRNA Expression Is Inversely Correlated with Tumor Tissue or Sentinel Lymph Nodes in Estrogen Receptor-Positive Early Breast Cancer Patients. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023; 24(17):13293. DOI:10.3390/ijms241713293. PMID:37686099. IF:5,600 (Q1/3D). Document type: Article.



5.1.5 Translational Medicine Area

- Fernández M, Torrano L, González J, Masia J, Sisternas L, D'Guilio G, Zamora P. To bulge or not to bulge: Rectus abdominis functional reconstruction after soft tissue sarcoma resection. *Journal of Plastic Reconstructive and Aesthetic Surgery*. 2023; 78. DOI:10.1016/j.bjps.2022.11.051. PMID:36736105. IF:2,700 (Q2/4D). Document type: Letter.
- Fernández S, Balagué C, Sala L, Molera A, Ballesster E, Gonzalo B, Pérez N, Targarona EM. Gastroesophageal reflux after sleeve gastrectomy: The dimension of the problem. *CIRUGIA ESPAÑOLA*. 2023; 101. DOI:10.1016/j.ciresp.2023.05.009. PMID:37952718. IF:1,900 (Q3/6D). Document type: Article.
- Fontanet S, Farré A, Angerri O, Kanashiro A, Siquilanda E, Bollo J, Gallego M, Sánchez FM, Millán F, Palou J, Bonnin D, Emiliani E. Bowel Perforation after Extracorporeal Wave Lithotripsy: A Review of the Literature. *Journal of Clinical Medicine*. 2023; 12(3):1052. DOI:10.3390/jcm12031052. PMID:36769699. IF:3,900 (Q2/4D). Document type: Note.
- Galán C, Hernández MP, Martínez MC, Sánchez A, Bollo J, Targarona EM. Surgical treatment of retrorectal tumors: a plea for a laparoscopic approach. *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*. 2023; DOI:10.1007/s00464-023-10448-5. PMID:37798533. IF:3,100 (Q1/3D). Document type: Article.
- Galán C, Hernández MP, Sala L, Sánchez A, Martínez MC, Bollo J, Pareja E, Targarona EM. Our experience in the short-term diagnostic-therapeutic management of the patient with anal dysplasia. *CIRUGIA ESPAÑOLA*. 2023; 101(3). DOI:10.1016/j.ciresp.2022.03.010. PMID:36152962. IF:1,900 (Q3/6D). Document type: Article.
- González C, Salvador MP, Glückmann E, Ríos A, Martín J, Pérez JI, García F, Flores B, Gómez J, Ortega J, Ros S, Villar J, Morales D, Gutiérrez MT, Domènech J, Nuño JM, Franch G. Diagnosis and treatment of primary thyroid lymphoma from a surgical perspective: a multi-institutional study. *LANGENBECKS ARCHIVES OF SURGERY*. 2023; 408(1):206. DOI:10.1007/s00423-023-02945-x. PMID:37221304. IF:2,300 (Q2/5D). Document type: Article.
- González S, Molina V, Homs R, Martín B, Rodríguez M, González JA, López A, Moral A, Sánchez S. Surgical and oncological results after surgical treatment of patients diagnosed with sarcoma liver metastases. *CIRUGIA ESPAÑOLA*. 2023; 101(2). DOI:10.1016/j.ciresp.2021.11.005. PMID:35901963. IF:1,900 (Q3/6D). Document type: Article.
- Noh S, Nessim C, Keung EZ, Roland CL, Strauss D, Sivarajah G, Fiore M, Biasoni D, Cioffi SPB, Mehtsun W, Cananzi FCM, Sicoli F, Quagliuolo V, Chen J, Luo CH, Gladdy RA, Swallow C, Johnston W, Ford SJ, Evenden C, Tirotta F, Almond M, Nguyen L, Rutkowski P, Krotewicz M, Pennacchioli E, Cardona K, Gamboa A, Hompes D, Renard M, Kollar A, Ryser CO, Vassos N, Raut CP, Fairweather M, Krakorova DA, Quidrian S, Perhavec A, Nizri E, Farma JM, Greco SH, Vincenzi B, López J, Solerdecoll MS, Iwata S, Fukushima S, Kim T, Tolomeo F, Snow H, Howlett Y, Tzanis D, Nikulin M, Gronchi A, Sicklick JK, Transatlantic R. Retrospective Analysis of Retroperitoneal-Abdominal-Pelvic Ganglioneuromas An International Study by the Transatlantic Australasian Retroperitoneal Sarcoma Working Group (TARPSWG). *ANNALS OF SURGERY*. 2023; 278(2). DOI:10.1097/SLA.0000000000005625. PMID:35866666. IF:9,000 (Q1/1D). Document type: Article.
- Paez A, Hessheimer A, Bermudez P, Zarco FX, Serrano E, Moreno J, Molina V, Ausania F, Carrero E, Burrel M, Fondevila C, Gomez FM. Percutaneous transhepatic biliary drainage for biliary obstruction in perihilar cholangiocarcinoma: a 10-year analysis of safety and outcomes using the CCI index. *LANGENBECKS ARCHIVES OF SURGERY*. 2023; 408(1):109. DOI:10.1007/s00423-023-02852-1. PMID:36847837. IF:2,300 (Q2/5D). Document type: Article.
- Pareja E, Bollo J, Hernández MP, Galán C, Targarona EM. Mammary-like gland perianal adenocarcinoma. *CIRUGIA ESPAÑOLA*. 2023; 101(1). DOI:10.1016/j.cireng.2022.06.046. PMID:35787474. IF:1,900 (Q3/6D). Document type: Letter.
- Pareja E, Bollo J, Hernández MP, Galán C, Targarona EM. Mammary-like gland perianal adenocarcinoma. *CIRUGIA ESPAÑOLA*. 2023;



5.1.5 Translational Medicine Area

- 101(1). DOI:10.1016/j.ciresp.2021.10.013. IF:1,900 (Q3/6D). Document type: Letter.
- Revilla G, Al Qtash N, Caruana P, Sainz M, López T, Rodríguez F, Paez V, Li CD, Vallverdú NF, Edwards M, Moral A, Pérez JI, Escolà JC, Pedraz JL, Gallego I, Corcoy R, Céspedes MV, Puras G, Mato E. Lenvatinib-Loaded Poly(lactic-co-glycolic acid) Nanoparticles with Epidermal Growth Factor Receptor Antibody Conjugation as a Preclinical Approach to Therapeutically Improve Thyroid Cancer with Aggressive Behavior. *Biomolecules*. 2023; 13(11):1647. DOI:10.3390/biom13111647. PMID:38002329. IF:5,500 (Q1/3D). Document type: Article.
 - Revilla G, Ruiz L, Vallverdu NF, Santamaría P, Moral A, Perez JI, Li CD, Fuste V, Lerma E, Corcoy R, Pitoia F, Escola JC, Mato E. Low-Density Lipoprotein Receptor Is a Key Driver of Aggressiveness in Thyroid Tumor Cells. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023; 24(13):11153. DOI:10.3390/ijms24131153. PMID:37446330. IF:5,600 (Q1/3D). Document type: Article.
 - Rueda RJ, López JS, Rodríguez AS, Andrade M, Hernández JD, Targarona EM. Face, Content, and Construct Validity Evaluation of Simulation Models in General Surgery Laparoscopic Training and Education: A Systematic Review. *Surgical Innovation*. 2023; 30(2). DOI:10.1177/15533506221123704. PMID:36062557. IF:1,500 (Q3/8D). Document type: Article.
 - Ruiz MG, Espin E, Spinelli A, Fernández CC, Rodríguez JB, Navascués J, Rautio T, Tiskus M, Mircast GRP. Early outcomes from the Minimally Invasive Right Colectomy Anastomosis study (MIRCAST). *BRITISH JOURNAL OF SURGERY*. 2023; 110(9). DOI:10.1093/bjs/znad077. PMID:37289913. IF:9,600 (Q1/1D). Document type: Article.
 - Sala L, Fernández S, Pérez N, Targarona ME. Hiatoplasty with running barbed suture: An alternative to conventional hiatal closure. *CIRUGIA ESPAÑOLA*. 2023; 101(6). DOI:10.1016/j.ciresp.2022.12.009. PMID:36948416. IF:1,900 (Q3/6D). Document type: Article.
 - Serra X, Pericay C, Badia J, Golda T, Biondo S, Hernández P, Targarona E, Borda N, Reina A, Delgado S, Vallribera F, Caro A, Gallego J, Pascual M, Álvarez C, Guadalajara HG, Mora L. Short-term outcomes of chemoradiotherapy and local excision versus total mesorectal excision in T2-T3ab,NO,M0 rectal cancer: a multicentre randomised, controlled, phase III trial (the TAU-TEM study). *ANNALS OF ONCOLOGY*. 2023; 34(1). DOI:10.1016/j.annonc.2022.09.160. PMID:36220461. IF:50,500 (Q1/1D). Document type: Article.
 - Targarona EM. Peer review: Is it important?. *CIRUGIA ESPAÑOLA*. 2023; 101(3). DOI:10.1016/j.ciresp.2021.11.020. PMID:35914718. IF:1,900 (Q3/6D). Document type: Article.
 - van der Heijde N, Vissers FL, Manzoni A, Zimmitti G, Balsells J, Berrevoet F, Bjornsson B, van den Boezem P, Boggi U, Bratlie SO, Burdio F, Coratti A, D'Hondt M, Del Pozo CD, Dokmak S, Fara R, Can MF, Festen S, Forgione A, Fristrup C, Gaujoux S, Koerkamp BG, Hackert T, Khatkov IE, Keck T, Seppanen H, Lips D, Luyer M, Pittau G, Maglione M, Molenaar IQ, Pessaux P, Roeyen G, St O, Cabus SS, van H, van der Schelling G, Serradilla M, Souche FR, Munoz M, Marino MV, Besselink MG, Abu M, European M. Use and outcome of minimally invasive pancreatic surgery in the European E-MIPS registry. *HPB*. 2023; 25(4). DOI:10.1016/j.hpb.2022.07.015. PMID:37028826. IF:2,900 (Q2/3D). Document type: Article.
 - Vazquez EB, Rodríguez JB, Santos VM, D'Ambrósio GM, Vitiello G, Soler EMT, Cabús SS, Duarte AM. Laparoscopic right colectomy with D3 lymphadenectomy and hepatic metastasectomy in the caudate lobe: A video vignette. *Colorectal Disease*. 2023; DOI:10.1111/codi.16686. PMID:37691158. IF:3,400 (Q1/2D). Document type: Letter.
 - Vitiello G, Fernández S, Pérez N, Targarona EM. Laparoscopic repair of a giant right diaphragmatic hernia. *CIRUGIA ESPAÑOLA*. 2023; 101(12). DOI:10.1016/j.ciresp.2023.03.014. IF:1,900 (Q3/6D). Document type: Editorial Material.