

General and Digestive Surgery

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Research technicians

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DESCRIPTION

Our group addresses different aspects of vascular biology, thrombosis and myocardial pathophysiology aimed at studying the mechanisms underlying the onset, progression and complications of cardiovascular diseases (CVDs) with high morbidity and mortality, such as atherosclerosis, aortic aneurysms, cardiac hypertrophy and myocardial infarction. Our ultimate goal is to develop tools for early diagnosis and new therapeutic strategies for these diseases.

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 the 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.
- Hepatobiliopancreatic 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 the 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 polytraumatised patients.
 - Safe practices for polytraumatised patients in a Multicentric collaborative database through the Catalan Trauma Database - TraumaCAT.
 - Clinical safety for fragile and elderly

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 of 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.
 - Possible role of genetic studies in diagnosis and follow-up.
 - Endocrine and Cervical Surgery
 - Technical innovations in surgery.
- Hepatobiliopancreatic 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, focusing on their surgical treatment, primarily through minimally invasive approaches.
 - Histotripsy in patients with pancreatic cancer (GANNON trial)
- Gastrointestinal Surgery Unit
 - Programa de cirugía experimental y colaborar con un grupo de trabajo del IR.

ACTIVE & AWARDED GRANTS

- Escola Gil, Juan Carlos & 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: 2020-2024. 111.320,00 €

DOCTORAL THESES DEFENDED

- Martín Arnau, Ana Belén. Utilidad y ventajas de los catéteres centrales de inserción periférica respecto al catéter venoso central no tunelizado. 20/03/2024. Universitat Autònoma de Barcelona. Supervisors: González López, José Antonio; Pomar Solchaga, Virginia; Moral Duarte, Antonio. <https://hdl.handle.net/10803/691671>.

SCIENTIFIC PRODUCTION

- Arnau A, Espelt AM, Auñon JV, Sánchez S. Percutaneous Transhepatic Cholangioscopy in the Management of Hepatolithiasis. CIRUGIA ESPANOLA. 2024; 102(11). DOI:10.1016/j.ciresp.2024.06.009. IF:1,300 (Q3/7D). Document type: Article.
- Calderón IJ, Pérez MA, Ramírez MA, Fernández S, Soler E, Balagué M. A Comparative Analysis of Laparoscopic Gastrectomy Versus Laparoscopic-Assisted Gastrectomy: The Overall and Disease-Free Survival. CUREUS JOURNAL OF MEDICAL SCIENCE. 2024; 16(3):e56730. DOI:10.7759/cureus.56730. PMID:38646328. Document type: Article.
- Cambeiro CL, Homs SR, Rosello DE, Solans SM, Gine SM, Lorenzo VL, Sánchez CS, Moral DA, Gonzalez Lopez JA. Surgical Approach to Retroperitoneal Sarcomas with Involvement of the Permeable Inferior Vena Cava: Use of the Femorojugular Bypass. J Biomed Res Environ Sci. 2024; 5(7): 757-762. DOI:10.37871/jbres1951. Document type: Article.
- Cizmic A, Romic I, Balla A, Barabino N, Anania G, Baiocchi GL, Bakula B, Balagué C, Berlth F, Bintintan V, Bracale U, Egberts JH, Fuchs HF, Gisbertz SS, Gockel I, Grimminger P, van R, Inaki N, Immanuel A, Korr D, Lingohr P, Mascagni P, Melling N, Milone M, Mintz Y, Morales S, Moulla Y, Müller BP, Nakajima K, Nilsson M, Reeh M, Sileri P, Targarona EM, Ushimaru Y, Kim YW, Markar S, Nickel F, Mitra AT. An international Delphi consensus for surgical quality assessment of lymphadenectomy and anastomosis in minimally invasive total gastrectomy for gastric cancer. SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES. 2024; 38(2). DOI:10.1007/s00464-023-10614-9. PMID:38148401. IF:2,400 (Q2/3D). Document type: Article.
- Escuin D, Bell O, García B, Clos M, Larrañaga I, López L, Mora J, Andrés M, Arqueros C, Barnadas A. Small Non-Coding RNAs and Their Role in Locoregional Metastasis and Outcomes in Early-Stage Breast Cancer Patients. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2024; 25(7):3982. DOI:10.3390/ijms25073982. PMID:38612790. IF:4,900 (Q1/3D). Document type: Article.
- Fernández S, Novelli S, Cabré LC, Riera CV, Vázquez EB, Verdaguer EJ, Targarona EM. Elective splenectomy for hematological diseases: a vanishing indication. SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES. 2024; 38(11). DOI:10.1007/s00464-024-11071-8. PMID:39210059. IF:2,400 (Q2/3D). Document type: Article.
- Genua I, Miñambres I, Puig R, Sardà H, Fernández S, Sánchez JL, Pérez A. Weight loss benefits on HDL cholesterol persist even after weight regaining. SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES. 2024; 38(6). DOI:10.1007/s00464-024-10826-7. PMID:38684527. IF:2,400 (Q2/3D). Document type: Article.
- Lopez-Lopez V, Kuemmerli C, Maupoey J, López-Andujar R, Lladó L, Mils K, Müller P, Valdivieso A, Garcés-Albir M, Sabater L, Cacciaguerra AB, Vivarelli M, Valladares LD, Pérez SA, Flores B, Brusadin R, Conesa AL, Cortijo SM, Paterna S, Serrablo A, Toop FHW, Oldhafer K, Sánchez-Cabús S, Gil AG, Masía JAG, Loinaz C, Lucena JL, Pastor P, Garcia-Zamora C, Calero A, Valiente J, Minguillon A, Rotellar F, Alcazar C, Aguilo J, Cutillas J, RuiPérez-Valiente JA, Ramírez P, Petrowsky H, Ramia JM, Robles-Campos R. Textbook outcome in patients with biliary duct injury during cholecystectomy. J Gastrointest

- Surg. 2024; 28(5):725-730. DOI:10.1016/j.gassur.2024.02.027. PMID:38480039. IF:2,200 (Q2/4D). Document type: Article.
- Martín Arnau AB, Molera Espelt A, Villaba Auñon J, Sánchez-Cabús S. Percutaneous transhepatic cholangioscopy in the management of hepatolithiasis. *Cir Esp (Engl Ed)*. 2024;102(11):599-604. DOI: 10.1016/j.cireng.2024.06.011. PMID: 39089368. Document type: Article
 - Martín-Cullell B, Virgili AC, Riera P, Fumagalli C, Mirallas O, Pelegrín FJ, Sánchez-Cabús S, Molina V, Szafranska J, Páez D. Histopathological, Clinical, And Molecular (HICAM) score for patients with colorectal liver metastases. *BRITISH JOURNAL OF SURGERY*. 2024; 111(3):znae016. DOI:10.1093/bjs/znae016. PMID:38488528. IF:8,600 (Q1/1D). Document type: Article.
 - Muñoz Casares FC, Padillo Ruiz FJ, González de Pedro C, Gómez Barbadillo J, Martín Broto J, Almoguera González F, Díaz Gómez D, Fernández-Hernández JÁ, González López JA, Asencio Pascual JM. Radical cytoreductive surgery and hyperthermic intraperitoneal chemotherapy in the treatment of peritoneal sarcomatosis: Results from a reference center and considerations based on current evidence. *Cir Esp (Engl Ed)*. 2024; 102(8):433-442. DOI:10.1016/j.ciresp.2024.05.006. PMID:O. IF:1,300 (Q3/7D). Document type: Article.
 - Muñoz-Casares FC, Martín-Broto J, Cascales-Campos P, Torres-Melero J, López-Rojo I, Gómez-Barbadillo J, González-Bayón L, Sebio A, Serrano C, Carvalhal S, Abreu de Souza J, Souza A, Flores-Ayala G, Palacios Fuenmayor LJ, Lopes-Bras R, González-López JA, Vasques H, Asencio-Pascual JM. Ibero-American Consensus for the Management of Peritoneal Sarcomatosis: Updated Review and Clinical Recommendations. *Cancers (Basel)*. 2024; 16(15):2646. DOI:10.3390/cancers16152646. PMID:39123374. IF:4,500 (Q1/3D). Document type: Review.
 - Norte A, Martínez C, Pasalodos A, Tort I, Sánchez A, Hernández P, Bollo J, Targarona EM. Impact of the laparoscopic approach, early closure and preoperative stimulation on outcomes of ileostomy closure after rectal resection. *CIRUGIA ESPANOLA*. 2024; 102(11). DOI:10.1016/j.ciresp.2024.05.016. IF:1,300 (Q3/7D). Document type: Article.
 - Reyes JCT, Tellez EM, Sanchis JB, Canovas GP, Niño AL, Guarino M, Ferrandez JH, Duarte AM. Are the minimally invasive techniques the new gold standard in thymus surgery for myasthenia gravis? Experience of a reference single-site in VATS thymectomy. *Frontiers in Neurology*. 2024; 15:1309173. DOI:10.3389/fneur.2024.1309173. PMID:38361645. IF:2,700 (Q2/4D). Document type: Article.
 - Rojas A, Fondevila C, Sanjuanbenito A, Fabregat J, Secanella L, Rotellar F, Pardo F, Prieto M, Marín H, Sánchez S, Díez L, Alonso O, González C, Rodríguez JC, García G, Jaén I, Suárez MA, Becerra A, Rio PSD, Pando E, López R, Muñoz E, Rodríguez M, Pereira F, Serrablo A, Turrión VS, Garrido MJ, Burdío F, Martín E, Estevan R, López D, Castell J, Salinas J, López JA, López S, Solar L, Pérez AJ, Martínez LA, Blas JL, Cornejo M, Gutierrez A, Pozo CDD, Ochando F, Muñoz L, Rebollar J, Sánchez B, Jover JM, Gómez MA, Ramia JM, Blanco G. Repeated pancreatic resection for pancreatic metastases from renal cell Carcinoma: A Spanish multicenter study (PANMEKID). *SURGICAL ONCOLOGY- OXFORD*. 2024; 52:102039. DOI:10.1016/j.suronc.2024.102039. PMID:38301449. IF:2,300 (Q2/3D). Document type: Article.
 - Serradilla-Martín M, Villodre C, Falgueras-Verdaguer L, Zambudio-Carroll N, Castell-Gómez JT, Blas-Laina JL, Borrego-Estella V, Domingo-Del-Pozo C, García-Plaza G, González-Rodríguez FJ, Montalvá-Orón EM, Moya-Herraiz Á, Paterna-López S, Suárez-Muñoz MA, Alkorta-Zuloaga M, Blanco-Fernández G, Dabán-Collado E, Gómez-Bravo MA, Miota-de-Llamas JI, Rotellar F, Sánchez-Pérez B, Sánchez-Cabús S, Pacheco-Sánchez D, Rodríguez-Sanjuan JC, Varona-Bosque MA, Carrión-Álvarez L, de la Serna-Esteban S, Dopazo C, Martín-Pérez E, Martínez-Cecilia D, Castro-Santiago MJ, Dorcaratto D, Gutiérrez-Díaz ML, Asencio-Pascual JM, Burdío-Pinilla F, Carracedo-Iglesias R, Escartín-Arias A, Ielpo B, Rodríguez-Laiz G, Valdivieso-López A, De-

- Vicente-López E, Alonso-Orduña V, Ramia JM. Feasibility and Short-Term Outcomes in Liver-First Approach: A Spanish Snapshot Study (the RENACI Project). *Cancers (Basel)*. 2024; 16(9):1676.. DOI:10.3390/cancers16091676. PMID:38730631. IF:4,500 (Q1/3D). Document type: Article.
- Tur J, Rodríguez J, Osorio J, Miró M, Yarnoz C, Jofra M, Ferret G, Salvador H, Fernández S, Clavell A, Luna A, Aldeano A, Olona C, Hermoso J, Güell M, Dal M, Gimeno M, Pallarès N, Pera M. Prognostic Relevance of Preoperative Immune, Inflammatory, and Nutritional Biomarkers in Patients Undergoing Gastrectomy for Resectable Gastric Adenocarcinoma: An Observational Multicentre Study. *Cancers*. 2024; 16(12):2188. DOI:10.3390/cancers16122188. PMID:38927894. IF:4,500 (Q1/3D). Document type: Article.
 - Uijterwijk BA, Lemmers DH, Fusai GK, Koerkamp BG, Koek S, Zerbi A, Sparrelid E, Boggi U, Luyer M, Ielpo B, Salvia R, Goh BKP, Kazemier G, Björnsson B, Serradilla M, Mazzola M, Mavroeidis VK, Sánchez S, Pessaux P, White S, Alseidi A, Valle RD, Korkolis D, Bolm LR, Soonawalla Z, Roberts KJ, Vladimirov M, Mazzotta A, Kleeff J, Muñoz M, Besselink MG, Hilal MA, ISGACA C. Different Periapillary Types and Subtypes Leading to Different Perioperative Outcomes of Pancreatoduodenectomy: Reality and Not a Myth; An International Multicenter Cohort Study. *Cancers*. 2024; 16(5):899. DOI:10.3390/cancers16050899. PMID:38473260. IF:4,500 (Q1/3D). Document type: Article.
 - Uijterwijk BA, Lemmers DH, Fusai GK, Zerbi A, Salvia R, Sparrelid E, White S, Björnsson B, Mavroeidis VK, Roberts KJ, Mazzola M, Cabus SS, Soonawalla Z, Korkolis D, Serradilla M, Pessaux P, Luyer M, Mowbray N, Ielpo B, Mazzotta A, Kleeff J, Boggi U, Munoz M, Goh BKP, Andreotti E, Wilmink H, Ghidini M, Zaniboni A, Verbeke C, Adsay V, Bianchi D, Besselink MG, Abu M, Nappo G, Ghorbani P, Malleo G, Lancelotti F, Napoli N, Robinson S, Khalil K, Val A, Mortimer MCM, Al B, Koh YX, Bhogal R, Serrablo A, Gayet B, Johansen K, Ramaekers M, Giani A, Int Study Non Pancreatic Peria GRP. Differences in Lymph Node Metastases Patterns Among Non-pancreatic Periapillary Cancers and Histologic Subtypes: An International Multicenter Retrospective Cohort Study and Systematic Review. *ANNALS OF SURGICAL ONCOLOGY*. 2024; 31(7). DOI:10.1245/s10434-024-15213-z. PMID:38602578. IF:3,400 (Q1/2D). Document type: Article.
 - Uijterwijk BA, Lemmers DH, Ghidini M, Wilmink H, Zaniboni A, Salvia R, Fusai GK, Koerkamp BG, Koek S, Ghorbani P, Zerbi A, Nappo G, Luyer M, Goh BKP, Roberts KJ, Boggi U, Mavroeidis VK, White S, Kazemier G, Björnsson B, Serradilla M, House MG, Alseidi A, Ielpo B, Mazzola M, Jamieson N, Wellner U, Soonawalla Z, Cabús SS, Dalla R, Pessaux P, Vladimirov M, Kent TS, Tang CN, Fisher WE, Kleeff J, Mazzotta A, Muñoz M, Berger AC, Ball CG, Korkolis D, Bannone E, Ferarri C, Besselink MG, Abu M, ISGACA C. The Five Periapillary Cancers, not Just Different Siblings but Different Families: An International Multicenter Cohort Study. *ANNALS OF SURGICAL ONCOLOGY*. 2024; 31(9). DOI:10.1245/s10434-024-15555-8. PMID:38888860. IF:3,400 (Q1/2D). Document type: Article.
 - Uijterwijk BA, Lemmers DH, Ghidini M, Wilmink JW, Zaniboni A, Fusai GK, Zerbi A, Koerkamp BG, Luyer M, Ghorbani P, Salvia R, White S, Ielpo B, Goh BKP, Boggi U, Kazemier G, House MG, Mavroeidis VK, Björnsson B, Mazzola M, Serradilla M, Korkolis D, Alseidi A, Roberts KJ, Soonawalla Z, Pessaux P, Fisher WE, Koek S, Kent TS, Vladimirov M, Bolm L, Jamieson N, Dalla R, Kleeff J, Mazzotta A, Muñoz M, Cabús SS, Ball CG, Berger AC, Ferarri C, Besselink MG, Hilal MA, Int GRP. The road to tailored adjuvant chemotherapy for all four non-pancreatic periapillary cancers: An international multimethod cohort study. *BRITISH JOURNAL OF CANCER*. 2024; 131(1). DOI:10.1038/s41416-024-02692-w. PMID:38806725. IF:6,400 (Q1/2D). Document type: Article.
 - van EA, van T, Bratlie SO, Kokkola A, Sparrelid E, Björnsson B, Kleive D, Burgdorf SK, Dokmak S, Koerkamp BG, Cabús SS, Molenaar IQ, Boggi U, Busch OR, Petric M, Roeyen G,

Hackert T, Lips DJ, D'Hondt M, Coolsen M, Ferrari G, Tingstedt B, Serrablo A, Gaujoux S, Ramera M, Khatkov I, Ausania F, Souche R, Festen S, Berrevoet F, Keck T, Sutcliffe RP, Pando E, de Wilde RF, Aussilhou B, Krohn PS, Edwin B, Sandström P, Gilg S, Seppänen H, Vilhav C, Abu M, Besselink MG, European M. Minimally invasive robot-assisted and laparoscopic distal pancreatectomy in a pan-European registry a retrospective cohort study. *International Journal of Surgery*. 2024; 110(6). DOI:10.1097/JS9.0000000000001315. PMID:38498397. IF:12,500 (Q1/1D). Document type: Article.