



3.4.10 Emergency and Critical Pathology Group

Publications: 17

Q1: 8

COMPOSITION

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STRATEGIC OBJECTIVE

We collaborate with other research groups, to study clinical and prognostic usefulness tests in cardiology, to develop new strategies for the treatment and diagnosis of infectious diseases, and to investigate new antibiotics with the pneumology group.

We develop a new and pioneering line of imaging diagnostic, with the line of emergency ultrasound, being national referents in research in this field, in which we have the active support of private enterprise.

We will investigate the possibility of supporting us in new technologies that help the clinician in the decision making in the field of the treatment of the diabetes, impelling global initiatives both at the hospital and the population level .



RESEARCH LINES

- Integral management of the treatment and follow-up of the diabetic patient.
- Emergency ultrasound.
- Sepsis
- SARS-CoV-2 and COVID19 acute management
- Care of infectious diseases in the emergency room.
- Optimization of the management of the acute intoxicated patient and use of chemical substances for terrorist purposes.
- Attention to cardiovascular pathology of emergencies.
- Attention to respiratory pathology.



RESEARCH ACTIVITY

● Publications

- Alquézar-Arbe A, Miro O, del Castillo JG, Jiménez S, Llorens P, Martín A, Martín-Sánchez FJ, García-Lamberechts EJ, Pina P, Jacob J, Porrino JMM, Jiménez B, del Río R, García CP, Aznar JVB, Ponce MC, Fernández ED, Tost J, Mojarro EM, García AH, Quirós AM, Noceda J, Cano MJC, Almeida AFD, Bayarri MJF, Tejera MG, Rodríguez AD, Burillo-Putze G. Incidence, clinical characteristics, risk factors and outcomes of acute coronary syndrome in patients with covid-19: results of the UMC-19-S10(10). *J Emerg Med.* 2022; 62(4): 443-54. Article. IF: 1.5; Q3
- Barac A, Bartoletti M, Azap O, Bussini L, Ergonul O, Krause R, Paño-Pardo JR, Power NR, Rodríguez-Bano J, Sibani M, Szabo BG, Tsiodras S, Verweij PE, Quirós AM, Zollner-Schwetz I. Inappropriate use of ivermectin during the COVID-19 pandemic: primum non nocere!. *Clin Microbiol Infect.* 2022; 28(7): 908-10. Editorial Material. IF: 14.2; D1
- Bartoletti M, Azap O, Barac A, Bussini L, Ergonul O, Krause R, Martín-Quirós A, Paño-Pardo JR, Power N, Sibani M, Szabo BG, Tsiodras S, Zollner-Schwetz I, Rodríguez-Bano J. ESCMID COVID-19 living guidelines: drug treatment and clinical management: author's reply. *Clin Microbiol Infect.* 2022; 28(4): 617-8. Letter. IF: 14.2; D1
- Bartoletti M, Azap O, Barac A, Bussini L, Ergonul O, Krause R, Martín-Quirós A, Paño-Pardo JR, Power N, Sibani M, Szabo BG, Tsiodras S, Zollner-Schwetz I, Rodríguez-Bano J. European society of clinical microbiology and infectious diseases guidelines for coronavirus disease 2019: an update on treatment of patients with mild/moderate disease. *Clin Microbiol Infect.* 2022; 28(12): 1578-90. Article. IF: 14.2; D1
- Cantero-Cid R, Montalbán-Hernández KM, Guevara J, Pascual-Iglesias A, Pulido E, Casalvilla JC, Marcano C, Serrano CB, Valentín J, Bonel-Pérez GC, Avendaño-Ortiz J, Terrón V, Lozano-Rodríguez R, Martín-Quirós A, Marín E, Peña E, Guerra-Pastrián L, López-Collazo E, Aguirre LA. Intertwined leukocyte balances in tumours and peripheral

blood as robust predictors of right and left colorectal cancer survival. *World J Gastrointest Oncol.* 2022; 14(1): 295-318. Article. IF: 3; Q3

- Carpio C, Lerín M, Torres I, Fernández-Velilla M, Río FG, Álvarez-Sala R, Prados C. Factors predicting 6-min walking test indexes in adults with cystic fibrosis. *Sci Sport.* 2022; 37(5-6): 438-45. Article. IF: 1.1; Q4
- Casado-López I, Tung-Chen Y, Torres-Arrese M, Luordo-Tedesco D, Mata-Martínez A, Casas-Rojo JM, Montero-Hernández E, de Casasola-Sánchez GG. Usefulness of multi-organ point-of-care ultrasound as a complement to the decision-making process in internal medicine. *J Clin Med.* 2022; 11(8): 2256. Article. IF: 3.9; Q2
- Goncalves BP, Hall M, Jassat W, Balan V, Murthy S, Kartsonaki C, Semple MG, Rojek A, Baruch J, Reyes LF, Dasgupta A, Dunning J, Citarella BW, Pritchard M, Martín-Quirós A, Sili U, Baillie JK, Aryal D, Arabi Y, Rashan A, Angheben A, Caoli J, Carrier FM, Harrison EM, Gomez-Junyent J, Figueiredo-Mello C, Douglas JJ, Nor MBM, Chow YP, Wong XC, Bertagnolio S, Thwin SS, Streinu-Cercel A, Salazar R, Rishu A, Rangappa R, Ong DSY, Hashmi M, Carson G, Díaz J, Fowler R, Kraemer MUG, Wils EJ, Horby P, Merson L, Olliaro PL. An international observational study to assess the impact of the Omicron variant emergence on the clinical epidemiology of COVID-19 in hospitalised patients. *Elife.* 2022; 11: e80556. Article. IF: 7.7; D1
- Hernández-Piriz A, Tung-Chen Y, Jiménez-Virumbrales D, Ayala-Larranaga I, Barba-Martín R, Canora-Lebrato J, Zapatero-Gaviria A, de Casasola-Sánchez GG. Usefulness of lung ultrasound in the early identification of severe COVID-19: results from a prospective study. *Med Ultrason.* 2022; 24(2): 146-52. Article. IF: 1.7; Q3
- Lozano-Rodríguez R, Terrón-Arcos V, López R, Martín-Gutiérrez J, Martín-Quirós A, Maroun-Eid C, del Val EM, Canada-Illana C, Iglesias AP, Quiroga JV, Montalbán-Hernández K, Casalvilla-Dueñas JC, García-Garrido MA, del Balzo-Castillo A, Peinado-Quesada MA, Gómez-Lage L, Herrero-Beni-

to C, Butler RG, Avendaño-Ortiz J, López-Collazo E. Differential immune checkpoint and ig-like v-type receptor profiles in covid-19: associations with severity and treatment. *J Clin Med.* 2022; 11(12): 3287. Article. IF: 3.9; Q2

- Lozano-Rodríguez R, Terrón-Arcos V, Montalbán-Hernández K, Casalvilla-Dueñas JC, Bergón-Gutiérrez M, Pascual-Iglesias A, Quiroga JV, Aguirre LA, de Diego RP, Vela-Olmo C, López-Morejon L, Martín-Quirós A, del Balzo-Castillo A, Peinado-Quesada MA, García-Garrido MA, Gómez-Lage L, Herrero-Benito C, Llorente-Fernández I, Martín-Miguel G, Torrejón M, Cubillos-Zapata C, del Fresno C, Avendaño-Ortiz J, López-Collazo E. Prior SARS-CoV-2 infection balances immune responses triggered by four EMA-approved COVID-19 vaccines: An observational study. *Clin Transl Med.* 2022; 12(5): e869. Article. IF: 10.6; Q1
- Lozano-Rodríguez R, Valentín-Quiroga J, Avendaño-Ortiz J, Martín-Quirós A, Pascual-Iglesias A, Terrón-Arcos V, Montalbán-Hernández K, Casalvilla-Dueñas JC, Bergón-Gutiérrez M, Alcamí J, García-Pérez J, Cascajero A, García-Garrido MA, del Balzo-Castillo A, Peinado M, Gómez L, Llorente-Fernández I, Martín-Miguel G, Herrero-Benito C, Benito JM, Rallón N, Vela-Olmo C, López-Morejón L, Cubillos-Zapata C, Aguirre LA, del Fresno C, López-Collazo E. Cellular and humoral functional responses after BNT162b2 mRNA vaccination differ longitudinally between naive and subjects recovered from COVID-19. *Cell Rep.* 2022; 38(2): 110235. Article. IF: 8.8; Q1
- Quintana MGM, García CH, Misis AG, Quesada-Cubo V, Poza AT, Sanz AC, Fernández OC, Murillo JAR, Alonso AMP, Cabanillas LP, Gil NL, Romero CC, García LP, Riballo ABR, Corcho IC, Rodríguez OR, de la Oliva SG, Benavent EG, Pérez AA, Vinolis MG, García YA, Pérez AA, Francés MR, Jiménez MLM, del Blanco CF, González RB. Factors associated with in-hospital mortality and readmission in a cohort of patients treated with noninvasive ventilation during emergency department or out-of-hospital emergency care: the VentiaMadrid

study. *Emergencias.* 2022; 34(1): 7-14. Article. IF: 5.5; D1

- Rampon G, Jia SJ, Agrawal R, Arnold N, Martín-Quirós A, Fischer EA, Malatack J, Jagan N, Sergeev A, Case AH, Miller K, Tanios M, Doros G, Ross CS, García MA, Gillmeyer KR, Griffiths NG, Jandali B, Modzelewski KL, Rucci JM, Simpson SQ, Walkey AJ, Bosch NA. Smartphone-Guided Self-prone Positioning vs Usual Care in Nonintubated Hospital Ward Patients With COVID-19 A Pragmatic Randomized Clinical Trial. *Chest.* 2022; 162(4): 782-91. Article. IF: 9.6; Q1
- Rodríguez-Pérez M, Tung-Chen Y, Herrera-Cubas R. Detection and semiquantification of pneumothorax through lung ultrasound: Case report of a COVID-19 patient. *Enferm Infect Micr Cl.* 2022; 40(9): 524-5. Letter. IF: 2.5; Q4
- Torres-Arrese M, de Casasola-Sánchez GG, Méndez-Bailón M, Montero-Hernández E, Cobbo-Marcos M, Rivas-Lasarte M, Caurcel-Díaz L, Rodríguez-Fuertes P, Villen-Villegas T, Tung-Chen Y. Usefulness of serial multiorgan point-of-care ultrasound in acute heart failure: results from a prospective observational cohort. *Med Lith.* 2022; 58(1): 124. Article. IF: 2.6; Q3
- Tung-Chen Y, Gil-Rodrigo A, Algora-Martín A, Llamas-Fuentes R, Rodríguez-Fuertes P, Marin-Baselga R, Alonso-Martínez B, Rodríguez ES, Soriano PL, Ramos-Rincon JM. The lung ultrasound Rule of 7 in the prognosis of COVID-19 patients: Results from a prospective multicentric study. *Med Clin-Barcelona.* 2022; 159(1): 19-26. Article. IF: 3.9; Q2

● Research projects

Martín Quirós A. Impacto del retraso en el inicio de la antibioterapia e identificación de biomarcadores pronósticos en la evolución de pacientes con sepsis a shock séptico (PI20/01589). ISCIII. 2021-2023.

Management centre: FIBHULP