

Clinical Epidemiology and Healthcare Services

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DESCRIPTION

We are an internationally recognised research group dedicated to advancing evidence-based healthcare. Our work spans applied clinical research, health services evaluation, and non-commercial clinical trials. As a leading hub for evidence synthesis, we produce a wide range of synthesis outputs and clinical practice guidelines, conduct cutting-edge methodological research, and offer tailored advice and training to a broad spectrum of stakeholders. Our group proudly hosts both a Cochrane Centre and a GRADE Centre, and actively promotes knowledge translation through numerous collaborative initiatives.

MAIN LINES OF RESEARCH

- Applied clinical research. (Martínez Zapata, María José).
- Research in adequacy, care quality and public Health. (Bonfill Cosp, Xavier).
- Synthesis and transfer of knowledge. (Alonso Coello, Pablo Ignacio).

SCIENTIFIC CHALLENGES

- To foster the design and coordination of multicentre clinical trials—nationally and internationally—in key areas such as surgical patient safety, perioperative medicine, and non-pharmacological interventions, consolidating these as transversal programmes within the Sant Pau Research Institute.

- To promote the integration of research findings into clinical practice, supporting the implementation of evidence to improve the quality and appropriateness of care.
- To establish our group as a national and international leader in evidence synthesis production, methodological research, and education.
- To increase the global visibility and influence of our group in the field of guideline methodology and capacity building.
- To embed a gender perspective systematically across all stages of our research: from design and conduct to analysis and reporting.
- To advance shared decision-making in healthcare by better linking clinical practice guidelines with real-world clinical data.
- To continue developing user-focused knowledge translation strategies and tools to ensure the effective and timely dissemination of scientific evidence.
- To attract international talent across our priority research areas and to secure competitive international funding, particularly from the European Union.
- Martínez García, Laura. Evaluation of primary school resources from the Informed Health Choices project in improving the ability of Spanish children to assess claims about treatments. CP18/00007. Instituto de Salud Carlos III (ISCIII). Duration: 2019-2024. 202.500,00 €
- Martínez García, Laura. Contextualización de los recursos didácticos para niños en educación primaria del proyecto Decisiones Informadas en Salud. PI19/00068. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2024. 36.300,00 €
- Martínez Zapata, María José. Contractes "Miguel Servet II" 2020. CPII20/00023. Instituto de Salud Carlos III (ISCIII). Duration: 2021-2024. 101.250,00 €
- Martínez Zapata, María José. Evaluación de una estrategia terapéutica para acortar el tiempo de estancia hospitalaria en apendicitis complicada pediátrica: ensayo clínico aleatorizado, paralelo, multicéntrico, abierto, de no inferioridad. ICI23/00070. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 252.560,00 €
- Martínez Zapata, María José. Desarrollo, implementación e impacto de una terapia digital para el seguimiento postoperatorio de pacientes de cirugía cardíaca: Estudio DIGITPOSCARD. PI24/00914. Instituto de Salud Carlos III (ISCIII). Duration: 2025-2027. 90.000,00 €
- Rojas Reyes, Maria Ximena. Fortalecimiento de la capacidad en la toma de decisiones en el Sistema de Salud español a través de evidencia viva: Un marco de trabajo innovador. PI21/01564. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 114.950,00 €
- Santero Sosa, Marilina. Análisis y mejora de la adecuación de la prescripción de quimioterapia al final de la vida. FI19/00335. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2024. 82.400,00 €
- Urrutia Cuchi, Gerard. Resultados centrados en el paciente y utilización de recursos después de la cirugía no cardíaca (España) (PACORUS-S). PI21/01742. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 75.020,00 €

ACTIVE & AWARDED GRANTS

- Alonso Coello, Pablo Ignacio. Grup de Recerca Clínica i Sanitària Aplicada. 2021 SGR 00982. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2025. 40.000,00 €.
- Alonso Coello, Pablo Ignacio. Desarrollos metodológicos para guías de práctica clínica en el Sistema Nacional de Salud (SNS). PI23/01813. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 65.000,00 €
- Bonfill Cosp, Xavier. Impacto del COVID-19 sobre la morbilidad y mortalidad de los. PI21/00062. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 168.190,00 €
- Bonfill Cosp, Xavier. CLINÈRGIA, collaborative network for the generation and knowledge translation about non-pharmacological. 2023 LLAV 00039. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2024-2024. 20.000,00 €

- Urrutia Cuchi, Gerard. Living Evidence to Inform Health Decisions Program. 2023 INNOV 00016. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2024-2025. 84.000,00 €
- Villegas Arbelaez, Esteban. Contratos PFIS 2024. FI24/00265. Instituto de Salud Carlos III (ISCIII). Duration: 2025-2028. 89.900,00 €

DOCTORAL THESES DEFENDED

- Alemán Riganti, Alicia Valentina. Calidad de la atención materna y perinatal: estrategias para su monitorización y mejora en América Latina. 13/06/2024. Universitat Autònoma de Barcelona. Supervisors: Bonfill Cosp, Xavier; Urrutia Cuchi, Gerard. <https://hdl.handle.net/10803/692005>
- Al-Haddar Al-Sakkaf, Ali Mahdi. Evidence synthesis in the treatment for breast cancer - related Lymphedema. 27/06/2024. Universitat Autònoma de Barcelona. Supervisors: Masia Ayala, Jaume; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/692016>
- Cortés Jofré, Patricia Marcela. Quimioprevención, inmunoterapia y guías de práctica clínica en cáncer de pulmón. 11/12/2024. Universitat Autònoma de Barcelona. Supervisors: Bonfill Cosp, Xavier; Martínez Zapata, María José. <https://hdl.handle.net/10803/693452>
- De la Rosa Toribio, Andelys Virginia. Evaluación de la evidencia disponible para adaptar e implementar guías de calidad que permitan abordar los Objetivos de Desarrollo Sostenible en relación con la mortalidad materna y su desigual afectación. 25/06/2024. Universitat Autònoma de Barcelona. Supervisors: Reveiz Herauld, Ludovic; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/693254>
- Hernández Álvarez, Edgar Debray. Efecte de les intervencions basades en la modificació ambiental sobre els hàbits nutricionals i l'activitat física. 24/04/2024. Universitat Autònoma de Barcelona. Supervisors: Seron Silva, Pamela Jeanette Carmen; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/691727>
- León García, Montserrat. Shared decision-making in health care: Thromboprophylaxis during pregnancy. 11/12/2024. Universitat Autònoma de Barcelona. Supervisors: Alonso Coello, Pablo Ignacio; Perestelo Pérez, Lilisbeth; Bonfill Cosp, Xavier. <http://hdl.handle.net/10803/693667>
- Meneses-EChávez, José Francisco. Use of evidence to decision frameworks for evidence-informed decision-making in healthcare. 10/12/2024. Universitat Autònoma de Barcelona. Supervisors: Alonso Coello, Pablo Ignacio; Flottorp, Signe Agnes; Schünemann, Holger; Bonfill Cosp, Xavier. <http://hdl.handle.net/10803/693668>
- Muñoz Millán, Patricia Karin. Estrategias preventivas de caries dental a nivel comunitario en niños (as) menores de 6 años. 15/10/2024. Universitat Autònoma de Barcelona. Supervisors: Martínez Zapata, María José; Zaror Sánchez, Carlos; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/692872>
- Ouchi Vernet, Dan. Avanzando en la modelización de la exposición al tratamiento farmacológico a través de algoritmos computacionales en registros electrónicos de salud. 01/03/2024. Universitat Autònoma de Barcelona. Supervisors: Torres Benítez, Ferran; Morros Pedros, Rosa; Gich Saladich, Ignasi Josep. <https://hdl.handle.net/10803/691644>
- Popova Sherozia, Ekaterine. Evaluación de la lesión miocárdica perioperatoria en cirugía no cardíaca con troponina T cardíaca de alta sensibilidad e imagen cardíaca avanzada. Resultados y coste efectividad de su evaluación sistemática. 14/06/2024. Universitat Autònoma de Barcelona. Supervisors: Paniagua Iglesias, Pilar; Alonso Coello, Pablo Ignacio; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/692033>
- Ramírez Morera, Anggie Patricia. Efectos en la calidad de la atención sanitaria del uso de las Guías de Práctica Clínica basadas en evidencia. 01/07/2024. Universitat Autònoma de Barcelona. Supervisors: Urrutia Cuchi, Gerard. <https://hdl.handle.net/10803/692977>
- Raventós i Roca, Berta. The impact of the COVID-19 pandemic on mental health disorders through the use of real-world data. 29/05/2024. Universitat Autònoma de

Barcelona. Supervisors: Duarte Salles, Talita; Burn, Edward; Bolibar Ribas, Ignasi. <https://hdl.handle.net/10803/691871>

- Salas Gama, Karla. Toma de decisiones compartida y proceso de selección de la modalidad de diálisis en pacientes con enfermedad renal crónica avanzada. 19/09/2024. Universitat Autònoma de Barcelona. Supervisors: Bolibar Ribas, Ignasi; Díaz Gómez, Joan Manel. <https://hdl.handle.net/10803/692760>
- Sanabria Uribe, Andrea Juliana. Proceso de priorización en la actualización de guías de práctica clínica: Investigación metodológica. 29/11/2024. Universitat Autònoma de Barcelona. Supervisors: Martínez García, Laura; Alonso Coello, Pablo Ignacio; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/693153>
- Santero Sosa, Marilina. Systemic oncological treatments for advanced esophageal cancer: an assessment of the existing evidence and controversies of their appropriateness. 17/04/2024. Universitat Autònoma de Barcelona. Supervisors: Urrutia Cuchi, Gerard; Bonfill Cosp, Xavier. <https://hdl.handle.net/10803/691738>
- Szigethy, Endre. Exploring the use of antineoplastic drugs at the end of life: a set of scoping reviews to assessing frequencies, patterns, and methods in terminal cancer care. 04/12/2024. Universitat Autònoma de Barcelona. Supervisors: Bonfill Cosp, Xavier; Urrutia Cuchi, Gerard. <https://hdl.handle.net/10803/693247>
- Torralba Martínez, Elena. Supervivencia al cáncer de mama. Perspectiva de la propia mujer superviviente.. 18/11/2024. Universitat Autònoma de Barcelona. Supervisors: Codern Bové, Núria; Quintana Ruiz, Maria Jesús; Puig Reixach, Maria Teresa. <https://hdl.handle.net/10803/693155>
- Werlinger Cruces, Fabiola. Traumatismo maxilofacial en adultos atendidos en unidades de emergencia hospitalaria en Chile: análisis de un registro multicéntrico. 14/05/2024. Universitat Autònoma de Barcelona. Supervisors: Urrutia Cuchi, Gerard; Martínez Zapata, María José. <https://hdl.handle.net/10803/691869>

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- Agache I, Canelo C, Annesi I, Cecchi L, Rigau D, Rodríguez LY, Nieto W, Song Y, Cantero Y, Roqué M, Vasquez JC, Sola I, Biagioni B, Chung F, D'Amato G, Damialis A, del Giacco S, Vecillas LD, Dominguez J, Galán C, Gilles S, Giovannini M, Holgate S, Jeebhay M, Nadeau K, Papadopoulos N, Quirce S, Sastre J, Traidl C, Walusiak J, Sousa B, Alonso P, Salazar J, Jutel M, Akdis C. The impact of outdoor pollution and extreme temperatures on asthma-related outcomes: A systematic review for the EAACI guidelines on environmental science for allergic diseases and asthma. ALLERGY. 2024; 79(7) DOI:10.1111/all.16041. PMID:38311978. IF:12,600 (Q1/1D). Document type: Review.
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