

Pain and Neurosciences

Group leader

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Catala Puigbo, Elena (FGS) until 2023/11/09

Researchers

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Roses Alvarez, Laia (FGS)

Santeularia Verges, Maria Teresa (FGS)

Sarmiento Luque, Teresa Eugenia (FGS)



DESCRIPTION

Our lines of research are basically of a clinical nature and are directed to possible treatments to relieve pain. Our goal is multidimensional patient management, which includes addressing the biological, psychological and social spheres through pharmacological treatment, and interventional therapies.

Pain and women, identifying different factors that influence the woman and increase the pain.

Comorbidities that alter the perception of pain.

We also had a line of study with brain imaging, with a completed thesis, but we are not currently following it.

Neuromodulation, covering the electrical and chemical fields: neurostimulation and intrathecal drug delivery system (IDDS).

MAIN LINES OF RESEARCH

- Neuromodulation in Catalonia. Creation of a database of patients undergoing neurostimulation and intrathecal drug infusion: Miren Revuelta Rizo, Mercè Genové Cortada, Marta Ferrándiz Mach, Rubén Diaz Jover, Teresa Sarmiento Luque, Isabel Muñoz Hernández, Laia Rosés Alvarez.
- Identify the best profile of patients (their psychopathological characteristics) before the implementation of neuromodulation techniques: Teresa Sarmiento Luque, Miren Revuelta Rizo, Marta Ferrándiz Mach, Mercè Genové Cortada, Rubén Diaz Jover.
- The effect of pulsed radiofrequency on chronic omalgia pain: Rubén Diaz Jover.
- The effect of radiofrequency (pulsed and con-



5.1.6 Associated Groups

- ventional) on chronic articular pain: Ruben Diaz, Jover, Martha Melo Cruz, Alejandro Rodríguez Vergara, Cristina Heredia Carqués.
- The effect (analgesic & side effects) of spinal Ziconotide in patients with refractory chronic pain: Marta Ferrándiz Mach, Mercè Genové Cortada.
 - Factors that can influence postoperative pain: Teresa Santeularia Vergés, Cristina Heredia Carques, Isabel Muñoz Hernández.
 - Treatment Guidelines for Acute intrahospital Pain: Teresa Santeularia Vergés, Cristina Heredia Carques, Mercè Genové Cortada, Isabel Muñoz Hernández.
 - Characterising the profile according to gender when patients reach our pain clinic: Teresa Santeularia Vergès, Martha Melo Cruz, Elena Català Puigbò.
 - Development of a new comorbidity index associated with chronic pain: Teresa Santeularia Vergès
 - Neuropathic pain. His clinic and physical examination in a non- neurological pain unit: Martha Melo Cruz, Cristina Heredia Carques.
 - New drugs in Neuropathic Pain. Focus in postherpetic neuralgia. Mercè Genové Cortada, Martha Melo Cruz, Isabel Muñoz Hernández, Laia Rosés Alvarez, Rubén Diaz Jover, Cristina Heredia Carqués, Miren Revuelta Rizo, Elena Català Puigbò.
 - Quality of care in pain clinics using the iso 9001 – 2015 methodology (international organisation for standardisation). The audit is carried out every year: Elena Català Puigbò.
 - Persistent pain and impact on quality of life in COVID-19 patients who have required critical care: Martha Melo, Isabel Muñoz, Elena Català.
- Unify and make our databases compatible to create profiles and clusters of patients with chronic pain.
 - Improve hospital prescription of postoperative pain analgesic guidelines to preserve patient safety.
 - Determine whether the intensity of chronic neuropathic pain assessed by the patient is correlated with the patient's psychopathology, essentially anxiety, depression and catastrophizing.
 - Determine the profile of patients who would benefit from treatment with major systemic opioids in relation to night rest and establish the recommendable opioid.
 - Establish the recommended opioid dose to start a treatment and how to remove them.

SCIENTIFIC CHALLENGES

- Establish the possible differences in brain area involvement between acute and chronic pain.
- Enhance neuromodulation (electrical and chemical) at the hospital level to be a regional reference centre.
- Determine the extent of chronic pain according to the involvement of different brain areas and if these alterations can improve with the relief of pain.

ACTIVE GRANTS

- Diaz Jover, Ruben. Eficacia del abordaje del nervio supraescapular mediante la administración de corticoides versus radiofrecuencia pulsada en el dolor crónico de hombro. Ensayo clínico Aleatorizado doble ciego. IIBSP-COR-2017-98. EudraCT 2017-004612-19. Duration: 2018-2023.

SCIENTIFIC PRODUCTION

- Labandeyra H, Heredia C, Campoy JC, Váldez LF, Prats A, Sala X. Clavipectoral fascia plane block spread: an anatomical study. REGIONAL ANESTHESIA AND PAIN MEDICINE. 2023; :rapm-2023-104785. DOI:10.1136/rapm-2023-104785. PMID:37699731. IF:5,100 (Q1/3D). Document type: Article.
- Popova E, Paniagua P, Álvarez J, Vives M, González A, García Á, Rivas M, Hermenegildo G, Diaz R, Azparren G, Barceló M, Moustafa A-H, Aguilar R, Ordonez J, Alonso P. The Relevance of Implementing the Systematic Screening of Perioperative Myocardial Injury in Noncardiac Surgery Patients. Journal of Clinical Medicine. 2023; 12(16):5371. DOI:10.3390/jcm12165371. PMID:37629413. IF:3,900 (Q2/4D). Document type: Article.