Paediatrics

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DESCRIPTION

The Paediatric Research Group is an expanding team of researchers comprising paediatricians who, alongside their clinical work in the hospital, are deeply committed to advancing paediatric research to improve the care and treatment of the children we serve. Aware of the limitations posed by the relatively small population in our area of influence, we strongly recognise the value of collaborating with other centres to enhance the quality and impact of paediatric research.

Our objective is to build a cohesive and inclusive network that unites all paediatric healthcare professionals in our region with a shared interest in research. This includes paediatricians working in both hospital and primary care settings, with the intention of fostering community-based studies that address significant paediatric health challenges.

MAIN LINES OF RESEARCH

- Artificial Intelligence applied to radiotherapy DVH prediction and radiotherapy treatment plan optimization. (Gallego Franco, Pedro; Pérez-Alija Fernández, Jaime; Tejedor Aguilar, Natalia).

- Clinical Audits in Radiotherapy. Line shared with the Radiation Oncology department. (Jornet Sala, Nuria).

- Standardization in Nuclear Medicine. (Ruiz Martínez, Agustín; Barcelo Pages, Marta).

- Diagnostic Reference Levels (DRL) by means of a radiation dose management solution. (Barcelo Pages, Marta; Ruiz Martínez, Agustín).
- Biological Dosimetry. (Carrasco De Fez, Pablo; Pérez-Alija Fernández, Jaime).
- Clinical transmission EPID-based in vivo dosimetry. At present, we have an agreement with Sun Nuclear Co. to clinically implement and suggest improvements on the