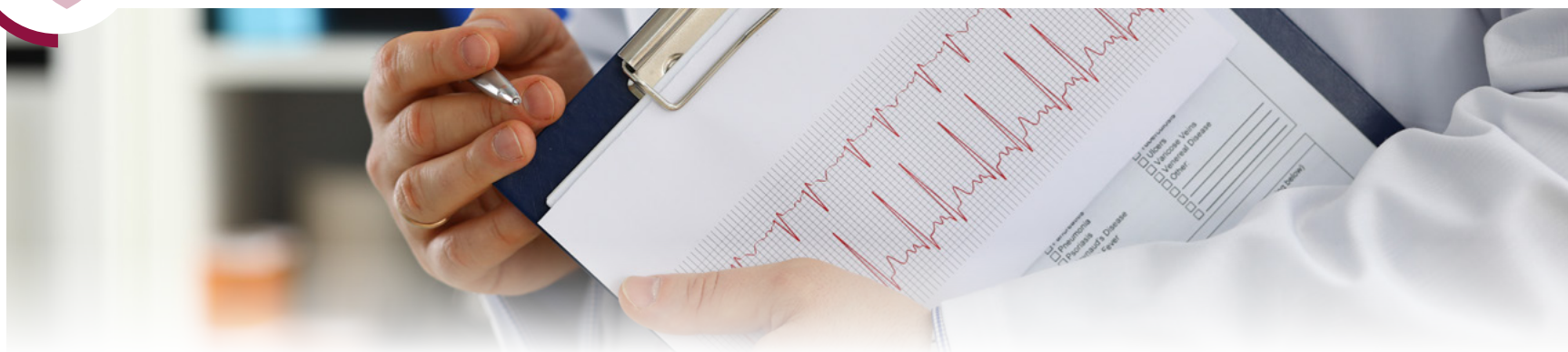




3.2.5 Paediatric Cardiology Research*



COMPOSITION

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STRATEGIC OBJETIVES

- Establishment of Cardiopathy Registers: Creation of comprehensive databases that comply with all legal regulations regarding security, confidentiality, and data protection.
- Advances in Imaging Diagnosis: Innovation and refinement of imaging techniques for precise characterization of pediatric heart diseases.
- Minimally Invasive Diagnostic and Therapeutic Techniques: Development and application of procedures that minimize impact and improve patient recovery.
- Research on Vascular Risk and Environmental Factors: Dedicated studies to understand how environmental factors and lifestyle influence pediatric heart diseases and their prevention.
- Role of Exercise in Pediatric Cardiology: Research on the importance of physical exercise in the detection and treatment of cardiac alterations in children.
- Telemedicine and Cardiac Monitoring: Implementation of telemedicine solutions and the use of IoT devices for efficient and real-time cardiac monitoring.
- Blockchain in Medical Record Management: Application of blockchain technology to ensure the integrity and privacy of medical records.
- Omics Research for Pediatric Cardiology: Search for biomarkers and therapeutic targets through genomic, proteomic, and metabolomic studies.

- Scientific Dissemination and Industrial Collaboration: Publication of research in high-impact journals and collaboration with the pharmaceutical sector for the development of new therapies.
- Creation of Specialized Care Units: Formation of multidisciplinary teams based on the latest research to provide the best care.
- Continuous Training and Public Awareness: Development of educational programs for professionals and families, and collaboration with media to increase the visibility of pediatric heart diseases.

RESEARCH LINES

- Application of Artificial Intelligence and New Technologies: Exploration and adoption of technological advances to enhance the diagnosis, treatment, and monitoring of pediatric heart diseases.
- Innovation in Medical Devices and Pharmacology: Development and assessment of advanced medical devices and new pharmacological compounds tailored to the specific needs of the pediatric population.
- Management of Vascular Risk in Pediatrics: Study and management of vascular risk from the earliest stages of life, focusing on the prevention and early detection of cardiovascular diseases.

*Group recently created, december 2023