3.6.9 Advanced Medical Informatics Laboratory (LIMA)*

COMPOSITION

Fernando Martín Sanchez.
Deputy Managing Director. La Paz University Hospital

- **Angel Abad Revilla.** *Physician Assistant to the Management. La Paz University Hospital*
- **Lubna Dani Ben Abdellah.** *Medical Coordinator Home Hospitalization Unit. La Paz University Hospital*
- **Mariana Díaz Almirón.** *Associate Data Scientist. La Paz University Hospital*
- **Jorge Díaz-Garzón Marco.** *Specialist in Clinical Analysis. La Paz University Hospital*
- **Carlos María Elvira Martínez.** *Head of Admissions Service. La Paz University Hospital*
- **Susana Kalko Witruk.** *Senior Researcher. FIBHULP*
- **Jesus Morente Lopez.** *Nurse R&D+i Quality. La Paz University Hospital*
- **Oscar Ocampo Perez.** *Information Systems and Technology Management Technician. La Paz University Hospital*
- **Rosario María Torres Santos-Olmo.** *Specialist in Family and Community Medicine. La Paz University Hospital*
- **Rodrigo Torres García.** *Data Engineer. La Paz University Hospital*

STRATEGIC OBJETIVES

- Transforming data into useful knowledge to Improve health research, clinical decision-making, and the Quality of Life our Patients
- Advanced healthcare data processing: development of algorithms and techniques to handle large volumes of clinical and genomic data.
- Annotation and normalization: Use of standardized vocabularies to improve interoperability and data quality.
- Decision support and visualization: Intuitive tools that enable more accurate clinical decisions.
- 360° Patient Data Management: comprehensive management of genomic, phenotypic, and other risk factor data (environmental, social, and digital determinants of health).

RESEARCH LINES

- Digital Health
- Developing a patient-centered, open-source digital platform to improve accessibility to clinical trials for underserved and underrepresented populations (US/UR)
- Co-create and validate methodological approaches, tools, and solutions for the digital transformation of healthcare.
- Design specific training programs for all stakeholders and promote professionalism in this area
- Current projects
- READI - READI Landing Page (ihi-readi.org)
- Data Spaces and AI
- Provide high-quality and secure data already aggregated in the SERMAS data lake (Cloudera), as well as facilitate future ingestion and extraction that may arise.
- Through the Data Office, we aim to promote the value, knowledge, security, privacy, and excellent data quality so that we can encourage its use (secondary use).
- Create clinical data transformation pipelines, ensuring their persistence and compatibility with the most widely used international standards (OMOP, OpenEHR, i2b2, etc.)
- Current projects:



*Group recently created, december 2024