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3.6.10 AI Health

Publications: 2 | Q1: 1

COMPOSITION

Juan José Beunza Nuin.

Investigador Principal Catedrático de la Universidad de Medicina. Universidad Europea de Madrid

- **Enrique Puertas Sanz.** *Profesor Ayudante Doctor. Universidad Europea de Madrid*
- **Eva Avilés Álvarez.** *Profesora Asociada. Universidad Europea de Madrid*
- **José Luis Lafuente Carrasco.** *Profesor Ayudante Doctor. Universidad Europea de Madrid*
- **Samuel González López.** *Profesor Asociado. Universidad Europea de Madrid/Facultativo Especialista de Área en Medicina Intensiva - Hospital Universitario HLA Moncloa*



STRATEGIC OBJETIVES

- The strategic objectives of the IASalud group are practical research to implement artificial intelligence tools in clinical practice, focusing primarily on intensive care for patients admitted to ICUs.

RESEARCH LINES

The current lines of work are:

- Development of an intelligent urinometer for automated measurement of diuresis, colorimetry and spectrometry in critically ill catheterized patients.
- Panties for reducing dysmenorrhea pain through TENS electrostimulation.
- Automated capillary refills for peripheral arterial function assessment.
- Thermal camera for automated body temperature analysis and internal perfusion estimation.
- Automated detection of respiratory failure in children in sub-Saharan Africa with HIV through analysis of respiratory sounds.
- Cardiovascular risk prediction using machine learning.
- Automated glucose monitoring in critically ill patients (ICU).
- Automatic monitoring of hand washing in ICU.
- Non-invasive lactate measurement in critically ill patients.
- Early detection of pre-eclampsia in pregnant women through remote monitoring, and analysis of the effectiveness of aspirin as a preventive therapy.
- Fingerprinting and hand vein pattern for the identification of newborn children.

RESEARCH ACTIVITY

Publications

- **Beunza JJ.** Intensivist should lead artificial intelligence implementation in the ICU. *Med Intensiva*. 2025; 49(9): 502253. Letter. IF: 2.5; Q3
- **García-Carmona AM, Prieto ML, Puertas E, Beunza JJ.** Leveraging large language models for accurate retrieval of patient information from medical reports: systematic evaluation study. *JMIR AI*. 2025; 4: e68776. Article. IF: 6.1; Q1