

# Cathlab Sim: SOFTWARE FOR THE SIMULATION OF PERCUTANEOUS CARDIAC INTERVENTIONS AND THE TRAINING OF HEALTHCARE STAFF

## DESCRIPTION OF THE TECHNOLOGY

Researchers of INCLIVA have developed a software, as a simulator designed for the **training of percutaneous interventional cardiology procedures**, both coronary and structural, as well as for the training of healthcare professionals. Given the nature of training in the field of health, this software application can be adapted to the training needs throughout the work and internship program: university training, specialized health training (MIR), specific training areas (training by MIR, fellowships), or training in novel or specific techniques. CathLab Sim simulates the process that the human heart system follows with the following properties:

- mechanical (simulation of blood pressure)
- electrical (electrocardiogram)
- the algorithms for the control and manipulation of the variables that cardiologists need to treat the associated pathologies.

## APPLICATION SECTOR

Health sector/ Cardiology training

## COLLABORATION SOUGHT

Hospitals, medical systems companies specialized in the automation and digitalization of hospitals and laboratories with cardiovascular interest in commercially exploit this software.

## ADVANTAGES

- ✓ Analysis and personalization of the intervention before entering the operating room.
- ✓ Cardiology training by simulation of extreme situations.
- ✓ Remote operation from mobile APP.

## STATE OF DEVELOPMENT

The software is being validated in real environment of the hospital. Thus, adaptation to different interfaces in the hospital environment is under studied.

## INTELLECTUAL PROPERTY

Software registered with registration number ND-374-2020 on July 10, 2020. Joint ownership together with the Polytechnic University of Valencia (UPV).



## CONTACT

Innovation Unit, INCLIVA

☎ +34 961 628 941 / 961 628 942 ✉ [innovacion@incliva.es](mailto:innovacion@incliva.es)