

LEFT VENTRICULAR THROMBUS RISK CALCULATION TOOL AFTER MYOCARDIAL INFARCTION

TECHNOLOGY DESCRIPTION

Left ventricular thrombus (LVT) is a potentially serious complication following ST-segment elevation myocardial infarction (STEMI), affecting approximately 5–10% of patients and associated with an increased risk of embolic events and poorer clinical outcomes. Currently, identifying patients at the highest risk of developing LVT relies on the combined assessment of multiple clinical and imaging variables, which may lead to variability and hinder consistent risk stratification.

Researchers from INCLIVA and the Universitat de València (UV) have developed a **digital risk assessment tool for post-infarction LVT**, implemented as an interactive web-based clinical calculator and based on an externally validated predictive model.

The solution automatically and reproducibly estimates the individual risk of developing LVT, facilitating patient risk stratification while providing an accessible, scalable tool with potential integration into hospital environments and digital health platforms.

APPLICATION SECTORS

Hospitals and healthcare institutions, particularly cardiology departments.

Digital health, medical software, educational software, and MedTech companies.

Hospital management platforms and clinical decision support systems.

SOUGHT COLLABORATION

We are seeking **digital health, medical software, and MedTech companies** interested in **licensing, co-development, and integration** of the technology. We also welcome collaboration with **hospitals, healthcare networks, and MedTech companies** for **clinical validation, regulatory development, and implementation in healthcare settings**.

ADVANTAGES

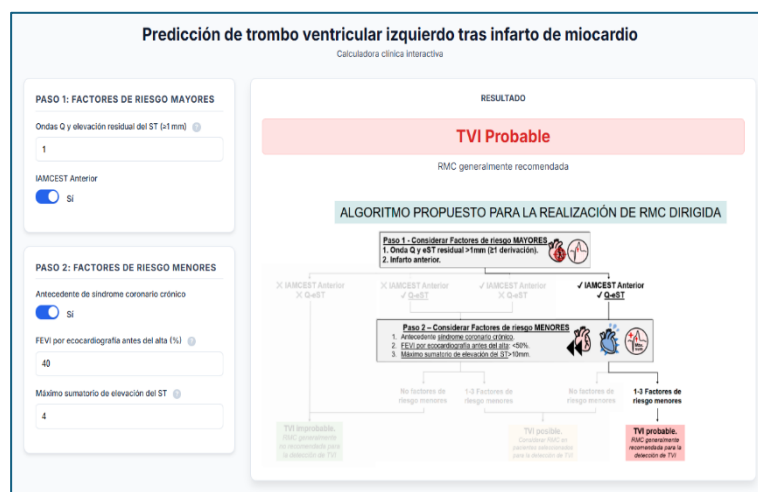
- ✓ Objective and individualized risk stratification for post-infarction LVT.
- ✓ Predictive model developed using a multicentre cohort of 590 patients and externally validated in an independent cohort of 105 patients.
- ✓ Excellent predictive performance (AUC = 0.85).
- ✓ Integration of multiple clinical and imaging variables into a single decision-support tool.
- ✓ Accessible, scalable, and easily integrable web-based solution for hospital environments.

DEVELOPMENT STATUS

The software has been developed and validated using clinical data from a published prospective multicentre registry. The web-based tool is fully functional and requires further development and regulatory validation prior to its implementation as a medical device.

INTELLECTUAL PROPERTY RIGHTS

The software was registered on **12 May 2026** under reference number **SFW2026_2**.



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