

PROJECT SEEKING INTERNATIONAL PARTNERS

ULTRASOUND FOR SAFER SURGERIES AT HCFMUSP

AREA OF FOCUS: Disease prevention and treatment

LOCATION: São Paulo, Brazil

PRIMARY HOST: RC São Paulo-Aeroporto **DISTRICT:** 4420

PROJECT GOAL

To acquire three portable ultrasound machines for the Surgical Center of the Central Institute at the Clinics Hospital of the University of São Paulo Medical School (HCFMUSP), improving surgical safety and enhancing the training of healthcare professionals serving Brazil's public healthcare system (SUS).

INSTITUTIONAL BACKGROUND

The Clinics Hospital of the University of São Paulo Medical School (HCFMUSP) is the largest hospital complex in Latin America and one of Brazil's leading public institutions in healthcare, education, and research. As part of the national public health system (SUS), it provides care for thousands of patients daily and is a reference center for high-complexity procedures. It also plays a key role in the training of medical students, residents, and specialists, serving as the teaching hospital for the University of São Paulo's Medical School. The Central Institute, where the project will be implemented, hosts 33 operating rooms and multiple medical specialties, serving as a center of surgical and academic excellence.

IDENTIFIED PROBLEM

The hospital currently has only 4 ultrasound devices for 33 operating rooms, causing average delays of 30 minutes per procedure. This limits patient safety and prevents broader adoption of ultrasound by multiple surgical specialties.

PROPOSED SOLUTION

Purchase of 3 portable ultrasound devices suitable for intraoperative use, to expand access, reduce delays, and allow broader adoption by anesthesiology, vascular surgery, urology, and other specialties.

BENEFICIARIES

The beneficiaries of this project include patients treated via Brazil's public health system (SUS), approximately 90 healthcare professionals trained annually, including residents, specialists, and preceptors, as well as surgical teams operating in high-complexity procedures.

MEASURABLE GOALS

The project aims to reduce the average wait time for ultrasound use in surgical procedures from 30 minutes to just 5-10 minutes. Additionally, it is expected to increase the number of surgeries performed with ultrasound guidance by 15% (currently at 170 procedures per month). Another key goal is to ensure the annual training of 90 healthcare professionals in the effective and safe use of portable ultrasound technology. Internal data collection will support ongoing monitoring of surgical efficiency, safety, and training outcomes.

SUSTAINABILITY

HCFMUSP will fully assume maintenance responsibilities, with the new equipment incorporated into its existing service contract with the manufacturer, ensuring ongoing technical support and spare parts. The hospital's Clinical Engineering team will monitor equipment use, and staff training will continue regularly. Internal performance indicators will be tracked to assess the project's long-term impact. This is a sustainable investment with long-lasting and replicable public health benefits.

TIMELINE

Application submission scheduled for July 1st, 2025, for implementation in Rotary Year 2025–26.

TOTAL BUDGET: US\$45,660 (Updated in April 2025)

CONTRIBUTION REQUESTED FROM INTERNATIONAL PARTNER: US\$6,000 (DDF) and/or club contributions.

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