



# **ESAIC Clinical Trial Network: EuPreCHO Study**

<u>Eu</u>ropean study on perioperative management and outcome following <u>Pre</u>operative Transthoracic Echocardiography in noncardiac surgery patients

#### **Rationale**

The impact of preoperative TTE on outcome is controversial and current evidence is mostly based on administrative data. There is also a knowledge gap in terms of what changes in perioperative management are derived from TTE information, and if this has any impact on postoperative outcomes. Further, a secondary analysis of a large international cohort suggests that the ESC guidelines criteria to recommend TTE may not be efficient for the detection of major pathologies .

#### **Research Questions**

**RQ1.** Does the perioperative management of patients evaluated with vs without preoperative TTE differ in current clinical practice?

**RQ2.** Do outcomes of patients evaluated with vs without preoperative TTE differ in current clinical practice?

**RQ3.** What factors enhance the prediction of major pathologies in preoperative TTE?

# Sample Size

We plan to recruit at least **5393 exposed** (TTE within 6 months before surgery) and **2696 non-exposed.** 

# **Inclusion Criterion**

- Patients undergoing elective, in-hospital, intermediate or high-risk noncardiac surgery
- And aged ≥65 years
- Or ≥2 cardiovascular risk factors
- · Or known cardiovascular disease.

#### **Exclusion Criteria**

- < 18 years of age</li>
- · Day surgery, urgent/emergency procedures
- Current ICU patient
- Cardiac surgery within the last month prior to the noncardiac procedure
- Unwilling or unable to provide informed consent
- Unable to complete the WHODAS questionnaire
- Previous enrolment in EuPreCHO

# **Primary Endpoints**

**RQ1.** Change in perioperative management:

- Discussion in preoperative multidisciplinary board and derived decisions
- · Optimization of cardiovascular medication,
- Cardiac workup
- Invasive or advanced intraoperative haemodynamic monitoring
- · Goal-directed haemodynamic management
- Planned ICU/IMC admission or extended PACU stay

**RQ2.** Disability-free survival at 30 days post-surgery

**RQ3.** Major pathologies detected by TTE:

- Moderate-severe systolic dysfunction,
- Significant diastolic dysfunction,
- Significant right ventricular dysfunction,
- Severe left-sided valvulopathies.





# **Your Contribution**

As a local Principal Investigator, you will

- Lead the study in your institution
- Identify and enrol patients and collect data
- Communicate with ESAIC and the relevant National Coordinators during all steps

# **Chief Investigator**

Prof. Dr. Giovanna Lurati Buse & Prof. Michelle Chew

# **Sponsor**

EuPreCHO is sponsored and funded by a grant from the ESAIC Clinical Trial Network.

#### Interested?

You will find the study documents at: <a href="https://esaic.org/study/euprecho/">https://esaic.org/study/euprecho/</a>

Address your questions to: <a href="mailto:research@esaic.org">research@esaic.org</a>

#### More information can be found here:



