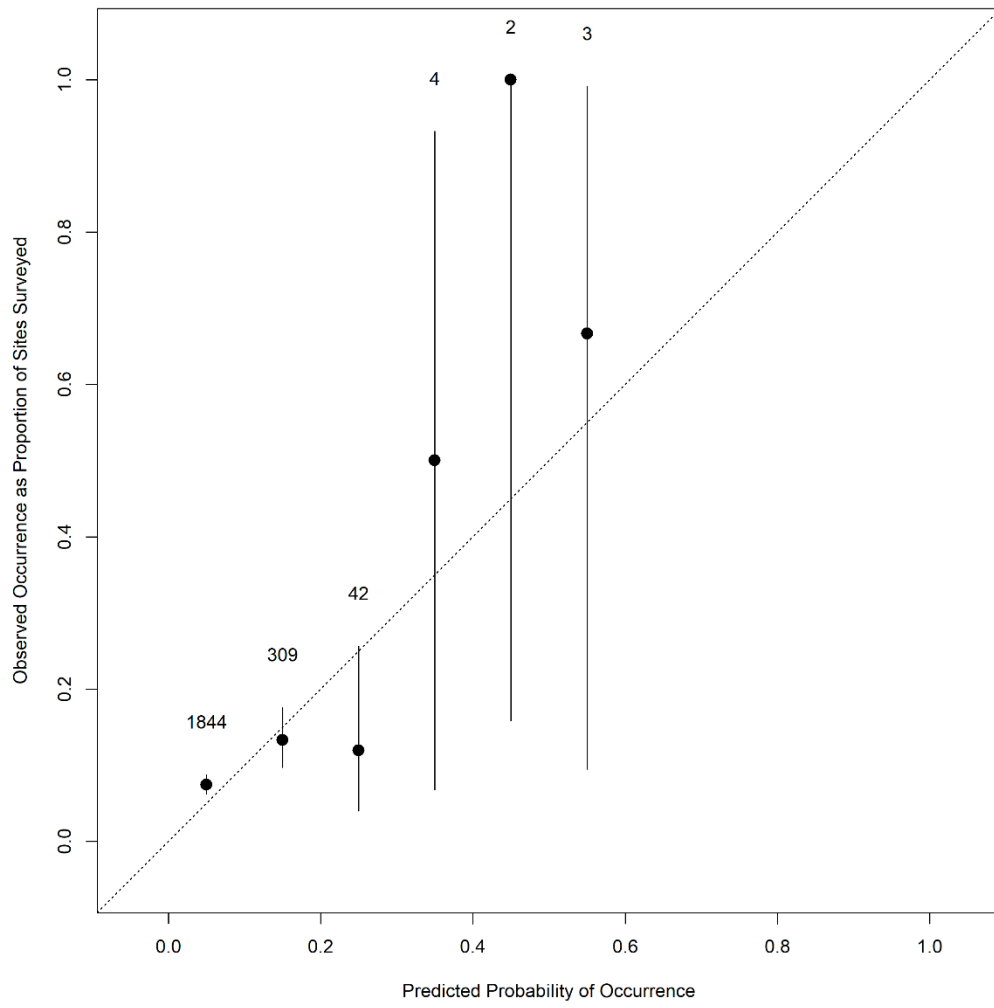# Supplementary materials

Supplementary Table 1 Definitions of the perioperative cardiac complications.

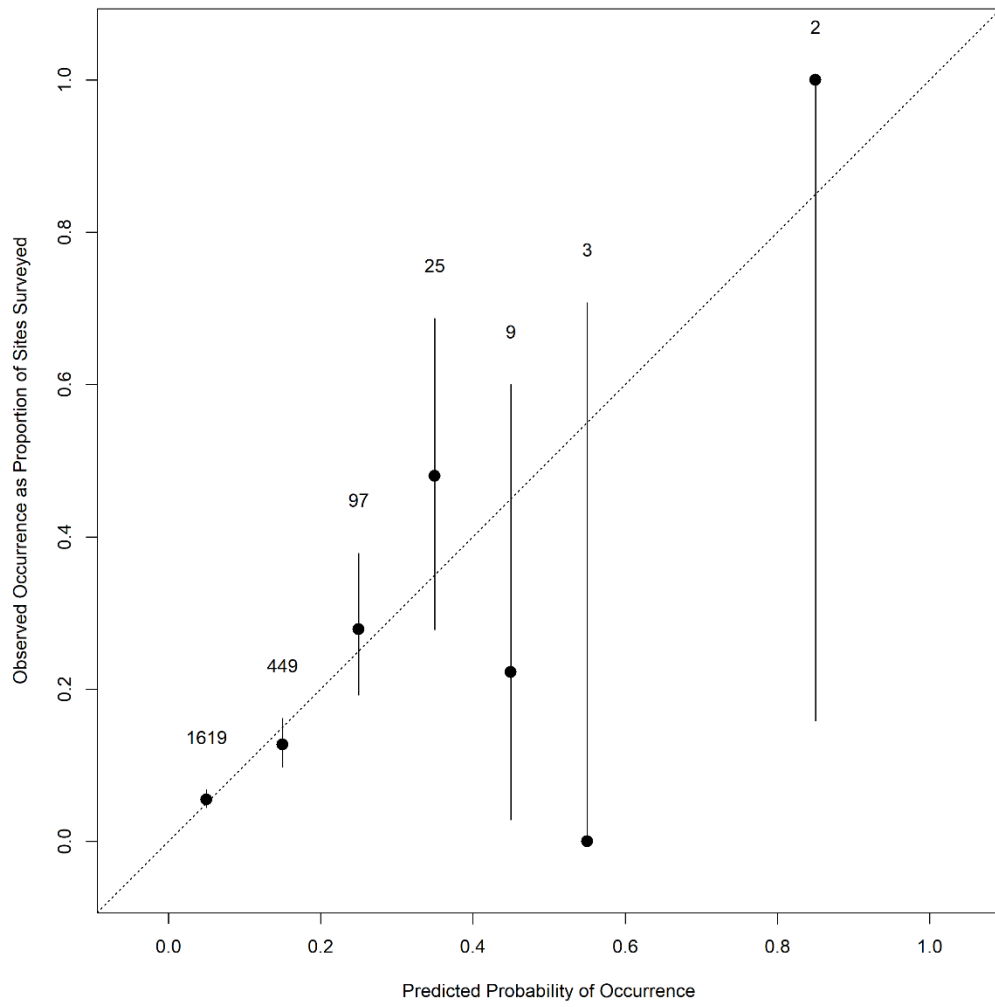| PPCs	Definition
ACS	ACS comprised STEMI and NSTE-ACS. A diagnosis of MI required a cTnI level increase of above the 99th percentile, accompanied by chest pain, ST-segment changes or new-onset left bundle branch block, ventricular wall motion abnormalities, or angiography confirmation. NSTE-ACS could be further subdivided into non-ST-elevation MI and unstable angina based on the cardiac biomarkers.
HF	Active clinical symptoms or physical examination findings of dyspnea, orthopnea, peripheral edema, jugular venous distention, rales, third heart sound, or chest X-ray with pulmonary vascular redistribution or pulmonary edema.
New-onset severe arrhythmia	Electrocardiographic changes requiring treatment with drugs or electrical conversion, namely malignant ventricular arrhythmia (ventricular tachycardia or ventricular fibrillation), atrial flutter or atrial fibrillation, atrioventricular block (second-degree type II or third-degree), PSVT, or frequent ventricular premature contractions (defined as the presence of seven or more ventricular premature beats per minute during any given stage, ventricular bigeminy, ventricular trigeminy, ventricular couplets, or ventricular triplets).
Cardiac arrest	Loss of circulation prompting resuscitation requiring chest compressions, defibrillation, or both.
Cardiac death	Death with known fatal cardiac conditions, autopsy identified cardiac or vascular anomaly, or any death for which no obvious extracardiac cause could be established.

Abbreviations: ACS, acute coronary syndrome; cTnI, cardiac troponin I; HF, heart failure; MI, myocardial infarction; NSTE-ACS, non-ST-elevation acute coronary syndrome; PCCs, perioperative cardiac complications; PSVT, paroxysmal supraventricular tachycardia; STEMI, ST-elevation myocardial infarction.

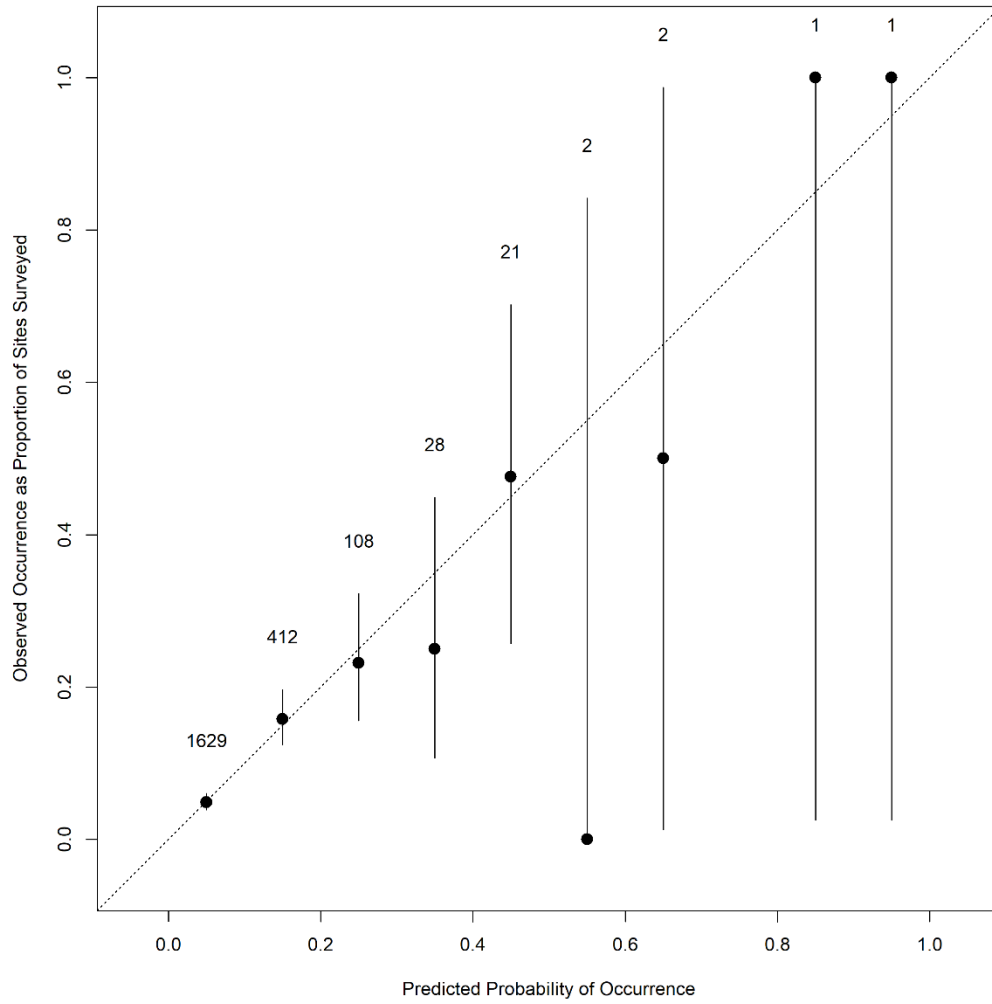**Supplementary Figure 1** Calibration plots for the RCRI prediction model.

Abbreviations: RCRI, revised cardiac risk index.

Supplementary Figure 2 Calibration plots for the clinical prediction model.

Supplementary Figure 3 Calibration plots for the clinical plus TTE prediction

model.

Abbreviation: TTE, transthoracic echocardiography.