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Prevalence, clinical profile and prognostic implications of interatrial block in patients admitted for heart failure

Supplementary data

Appendix 1 of the supplementary data - List of variables

1. Demographic and previous clinical history

- Sex
- Date of birth
- Age
- Previous history of heart failure (HF)
- Years of evolution since the first diagnosis of HF
- Number of previous hospitalizations due to cardiovascular causes (last 12 months)
- Number of previous hospitalizations due to HF (last 12 months)
- Usual place of previous clinical checks
- HF etiology
- Smoker status
- History of alcoholism
- History of dyslipidemia
- History of diabetes dellitus
- History of hypertension
- Previous peripheral vascular disease
- Anemia
- Chronic obstructive pulmonary disease
- Stroke
- Chronic kidney disease
- Charlson index
- Barthel index
- Pfeiffer index
- Previous myocardial infarction
- Atrial fibrillation
- Previous syncope
- Previous revascularization and type
- Previous pacemaker
- Previous resynchronization therapy
- Previous implantable converter defibrillator

2. Case history and physical examination

- Cause of current admission
- Length of stay

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- NYHA class functional
- Reduced exercise tolerance
- Orthopnea
- Paroxysmal nocturnal dyspnea
- Bilateral ankle edema
- Third sound gallop
- Rales
- Neck vein distension
- Hepatomegaly
- Hepatojugular reflux
- Ascitis
- Heart rate
- Systolic blood pressure
- Diastolic blood pressure
- Weight
- Height
- Body mass index
- Waist circumference

3. Chest radiography

- Cardiothoracic index
- Congestion signs on X-ray

4. ECG data at admission and discharge

- RR interval
- Rhythm
- PR interval
- Left bundle branch block
- Right bundle branch block
- QRS duration
- Left ventricular hypertrophy signs
- Q waves
- QT interval
- Corrected QT interval

5. Echocardiographic data

- Left ventricular end-diastolic diameter
- Left ventricular end-systolic diameter
- LVEF
- Septum thickness
- Thickness of LV posterior wall
- Left atrial diameter
- Right ventricular end-diastolic diameter

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- TAPSE
- Mitral regurgitation
- Pattern diastolic filling

6. Laboratory blood test at admission and discharge

- Hemoglobin
- Sodium
- Potassium
- Proteins
- Albumin
- Glucose
- Urea
- Creatinine
- Total cholesterol
- HDL-cholesterol
- LDL-cholesterol
- Triglycerides
- Aspartate aminotransferase
- Alanine aminotransferase
- Gamma-glutamyl transpeptidase
- TSH
- Hs-Troponin T
- Pro-BNP
- GDF-15
- Hs-CRP

7. Previous medical treatment and at discharge

- ACE inhibitors
- Aldsterone receptor blockers
- Beta-blockers
- Dihydropyridine calcium channel blockers
- Non-dihydropyridine calcium channel blockers
- Antithrombotic agents and anticoagulants
- Statins
- Oral antidiabetics
- Loop diuretics
- Thiazide diuretics
- Spironolactone
- Eplerenone
- Antiarrhythmics
- Nitrates
- Hydralazine
- Treatment for anemia

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- Other drugs

8. Treatment in the first 24 hours of admission

- Stay unit
- Dose of furosemide and mode of administration
- Ultrafiltration
- Inotropic / vasoactive agents / intravenous vasodilators
- Type of respiratory support
- Type of mechanical support
- Bladder catheter
- Swan-Ganz catheter

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Table 1 of the supplementary data - Comparison of clinical characteristics between the study population and excluded patients.

	Study population (n = 557)	**Excluded patients (n = 1274)**	***P***
Age, years	70 ± 13	73 ± 12	< .001
Men, n	332 (60)	743 (58)	.619
Previous HF, n	282 (51)	778 (61)	< .001
HF evolution, y	2.5 ± 4.4	3.7 ± 5.8	< .001
HF admissions in last year, mean	0.6 ± 1.3	0.9 ± 1.5	< .001
Baseline NYHA I-II, n	491 (90)	973 (85)	.008
Ischemic HF, n	231 (46)	382 (35)	< .001
Valvular HF, n	87 (17)	324 (29)	< .001
Hypertension, n	430 (78)	984 (78)	.959
LVEF, %, mean	44 (18)	46 (17)	.044
HFrEF, n	183 (39)	427 (45)	.036
HFmEF, n	75 (16)	152 (16)	1
HFpEF, n	212 (45)	371 (39)	.023
Diabetes mellitus, n	276 (50)	571 (45)	.063
Stroke, n	56 (10)	127 (10)	1
GFR < 60 mL/m/1.73 m^2, n	150 (27)	362 (29)	.544
COPD, n	82 (15)	208 (17)	.354
SAHS, n	56 (10)	137 (11)	.628
Charlson index	3.5 ± 2.8	3.3 ± 2.5	.141
Barthel index	91 ± 19	89 ± 22	.04
Mental SPMSQ	0.85 ± 1.56	0.95 ± 1.72	.534
LA diameter, mm	45 ± 8	49 ± 9	< .001
LA volume, mL	68 ± 29	73 ± 32	.047
Nt-ProBNP, ng/L	6234 ± 6975	6904 ± 8003	.29
GDF-15, ng/L	3815+ ± 2796	4934 ± 3980	< .001

COPD, chronic obstructive pulmonary disease; GFR, glomerular filtration rate; HF, heart failure; HFmEF, heart failure with mid-range ejection fraction; HFpEF, heart failure with preserved ejection fraction; HFrEF, heart failure with reduced ejection fraction; IAB, interatrial block; ,LA, left atria; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association; SAHS, sleep apnea hypoventilation syndrome; SPMSQ, short portable mental status questionnaire.

Data are expressed as no. (%) or mean ± standard deviation.

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Figure 1 of the supplementary data - Example of measuring the P wave with the GeoGebra software.

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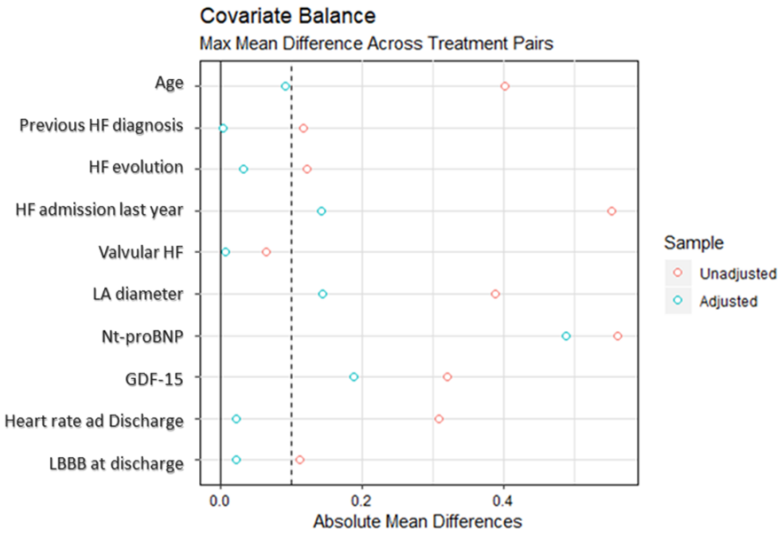
Figure 2 of the supplementary data - Absolute mean differences of the non-adjusted and adjusted model containing the ten relevant clinical variables.



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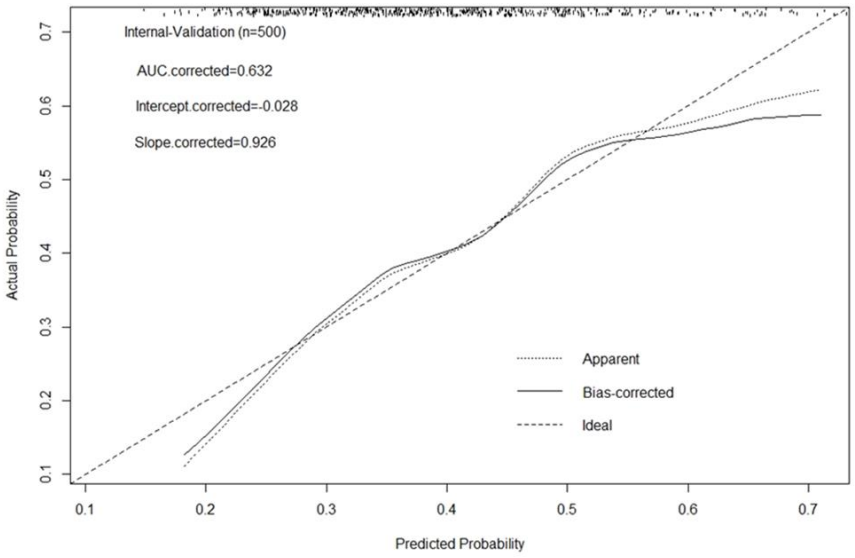
Figure 3 of the supplementary data - Calibration plot of the independent factors related with the presence of interatrial block at electrocardiogram discharge.