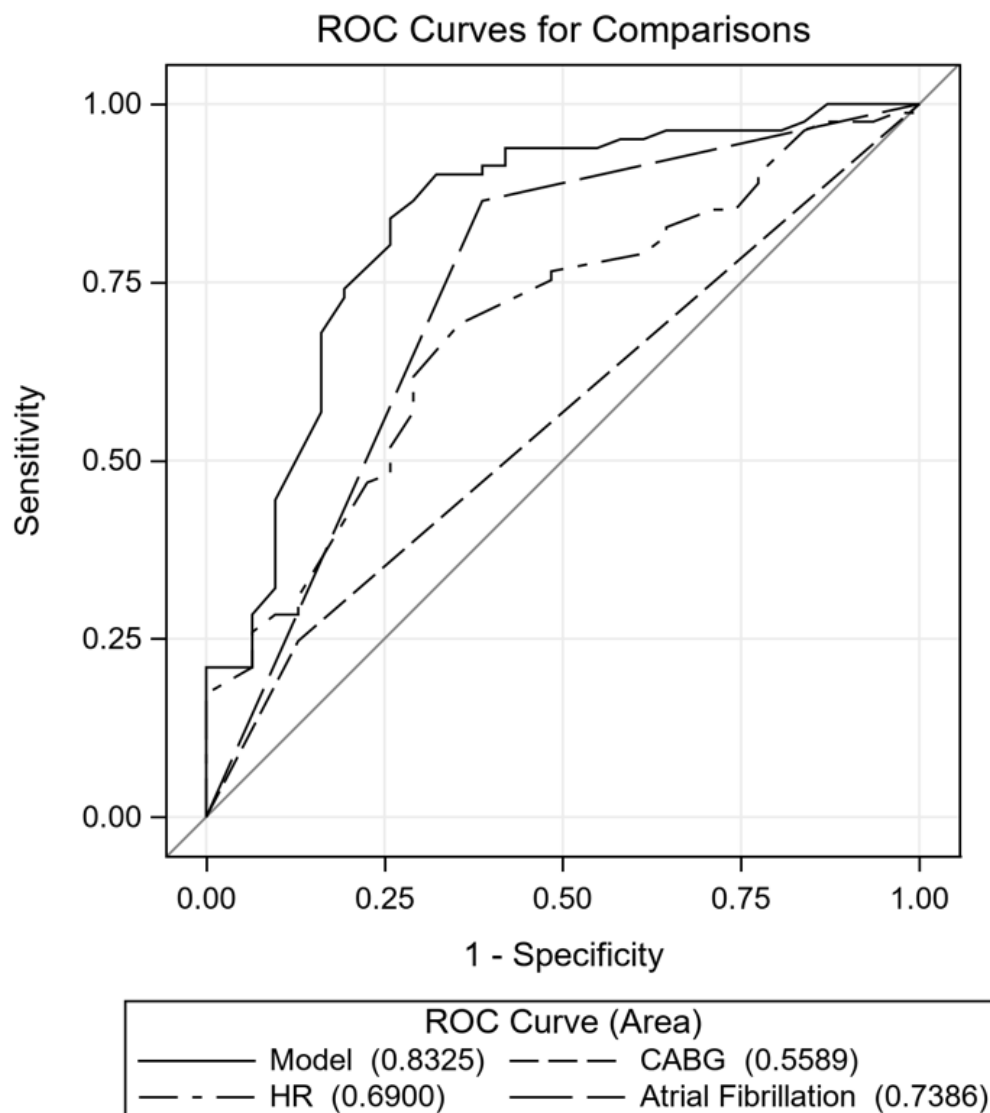


**Supplementary material**

*Majos-Karwacka E, Kowalik I, Kraska A, et al. Atrial fibrillation and elevated heart rate — independent prognostic factors of right ventricular dysfunction in patients with heart failure with reduced ejection fraction. Kardiol Pol. 2022.*

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**Figure S1.** Multivariate analysis for independent predictors of right ventricular function (RVEF) <45%

**Table S1.** Selected echocardiographic findings in patients with atrial fibrillation (AF) and sinus rhythm (SR)

	<b>AF</b>	<b>SR</b>	<b>P-value</b>
	N = 94	N = 32	
MR, significant, n (%)	32 (34.0)	2 (6.2)	0.002
TR, significant, n (%)	32 (34.0)	1 (3.1)	0.001
RVSP, mm Hg, mean (SD)	40.8 (10.2)	34.0 (8.1)	0.001
TAPSE, cm, mean (SD)	1.92 (0.48)	2.06 (0.58)	0.19
S', mean (SD)	9.7 (2.31)	12.1 (3.83)	0.01
RV-FAC, %	36.9 (12.4)	39.7 (12.8)	0.28
	N = 86	N = 30	
RVEF, %, mean (SD)	37.2 (7.3)	48.2 (7.5)	<0.001
RVLS, %, mean (SD)	-18.3 (4.6)	-23.9 (4.23)	<0.001

MR, mitral regurgitation; TR, tricuspid regurgitation; RVSP, right ventricular systolic pressure; TAPSE, tricuspid annular plane systolic excursion; s', tricuspid lateral annular systolic velocity; RVEF, right ventricular ejection fraction; RVLS, right ventricular longitudinal strain of the free wall

**Table S2.** Relationship between echocardiographic parameters observed in two- and three dimensional echocardiography (2DE and 3DE) depending on the occurrence of atrial fibrillation. (Pearson correlation coefficients)

	<b>AF</b> <b>N = 86</b>	<b>SR</b> <b>N = 30</b>	<b>AF</b> <b>N = 86</b>	<b>SR</b> <b>N = 30</b>	<b>AF</b> <b>N = 86</b>	<b>SR</b> <b>N = 30</b>
	s' (2DE)		TAPSE (2DE)		RV FAC (2DE)	
RVEF (3DE)	r = 0.12 P = 0.36	r = 0.16 P = 0.51	<b>r = 0.33</b> <b>P = 0.002</b>	r = 0.30 P = 0.11	r = 0.19 P = 0.08	r = 0.18 P = 0.35
FW RVLS (3DE)	r = -0.05 P = 0.70	r = -0.16 P = 0.49	<b>r = -0.34</b> <b>P = 0.001</b>	r = -0.27 P = 0.15	r = -0.11 P = 0.33	r = -0.12 P = 0.52

s', tricuspid lateral annular systolic velocity; TAPSE, tricuspid annular plane systolic excursion; RVEF, right ventricular ejection fraction; RVEF, right ventricular ejection fraction; FW RVLS, right ventricular longitudinal strain (free wall)