## Supplementary material

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Diagnosis	Classification criteria
Normal heart rate	60–100 beats per minute
QRS interval	Measured from the end of the PR interval (or beginning of the
	Q wave) to the end of the S wave. Normal range: 70–110 msec
PQ interval	Measured from end of P wave to start of QRS complex. Normal
	range: 120–200 msec
ST interval	Measured from the end of the QRS complex (the J point) to the
	beginning of the T wave.
QT interval	Measured from the start of the Q wave to the end of the T wave.
QTc interval	Calculated based on Bazett's formula.
	Normal range: men 350–450 msec, women 360–460 msec
Sinus rhythm	positive P wave in leads I, II, aVF and V3–V6
	negative P wave in lead aVR
	positive, negative or biphasic P wave in leads III, aVL and V1–
	V2
Atrial rhythm	The P wave has a different (but constant) shape to the P wave of
	the sinus rhythm.
	PQ interval >100 msec.
	Heart rate ≤100/min

## Table S1. Classification criteria for main electrocardiographic diagnoses

Atrial fibrillation	The absence of P waves
	Presence of the irregular fibrillation waves
	The frequency of the f waves most often >350/min
	An irregular rhythm of the QRS complexes
Atrial flutter	Presence of the flutter waves, in leads II, III, aVF usually
	biphasic
	Lack of an isoelectric line between the F waves in the limb leads
	The frequency of the F waves most often >250/min
	Steady rhythm of the QRS complexes, less often irregular,
	usually slower than the F waves
Normal axis	ranges from +90 to -30 degrees
Left axis deviation	ranges from -31 to –90 degrees
Right axis deviation	ranges from +91 to +180 degrees
Extreme axis deviation	ranges from +181 to -90 degrees
Frequent ventricular	More than one ventricular extrasystole in ten normal (sinus) the
extrasystoles	QRS waves
	In patients without intraventricular conduction abnormalities at
	least one of the following:
	R in aVL >1.1 mV (11 mm);
	R in I + S in III >2.5 mV (25 mm);
	R in V5 or V6 >2.6 mV (26 mm);
Left ventricular	S in V1 + R in V5 or V6 >3.5 mV (35 mm);
nypertropny	S in V2 + R in V5 or V6 >4.5 mV (45 mm);
	S in V3 + R in aVL >2.8 mV (28 mm) (men);
	S in V3 + R in aVL >2.0 mV (20 mm) (women);
	In the presence of LAH at least one of the following:

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	QS or rS complex in leads V1–V3
	Time to R-peak in V5, V6 >60 msec
	ST and T changes opposite to the main deflection of the QRS
	complex
RBBB	The duration of the QRS complex is $\geq 120$ msec.
	S-wave wider than R and/or >40 msec in leads I and V6.
	QRS complex with morphology rsr ', rsR', rSR' (r' or R' wider
	than r) or wide, often interlocked R wave in leads V1 and/or V2.
	Time to R-peak in V1 >50 msec.
	Secondary ST – T changes in leads V1 – V2
	and possibly V3
	Left axis deviation.
IAU	The qR complex in lead aVL.
LAH	Time to R-peak in lead aVL >45 msec
	QRS duration <120 msec
	Right axis deviation.
	qR complexes in leads III and aVF
	rS complexes in leads I and aVL
LPH	Time to R-peak in lead aVF >45 msec
	QRS time <120 msec.
	No features of a right ventricular hypertrophy
Pathologic Q wave	Must be present in at least two corresponding leads:
	1. In V2, V3 - a QS complex or Q wave of any depth and
	duration $\geq 20$ ms;
	2. In any two adjacent leads from the group - I, aVL, V6; V4-
	V6; II, III, aVF — QS complex or waves Q with an amplitude
	$\geq 0.1 \text{ mV} (1 \text{ mm}) \text{ and duration} \geq 30 \text{ ms}$

ST depression	Measured in the J — point, must be present in at least two	
	corresponding leads:	
	1. Leads V2, V3 — decrease in the J point $\geq$ 0.05 mV (0.5 mm);	
	2. Leads other than V2 and V3 - decrease in the J point $\geq 0.1 \text{ mV}$	
	(1 mm)	
ST elevation	Measured in the J — point, must be present in at least two	
	corresponding leads:	
	1. Leads V2, V3 — women $\geq 0.15$ mV (1.5 mm), men $\geq 40$ years	
	old - ≥0.2 mV (2 mm), men	
	aged <40 years - ≥0.25 mV (2.5 mm)	
	2. Leads other than V2, V3 — women and men $\ge 0.1 \text{ mV} (1 \text{ mm})$	
Negative T wave	Inversion of T waves (negative T) with amplitude $\geq 0.1 \text{ mV}$ (1	
	mm)	
Abbreviations: LBBB, left bundle branch block; RBBB, right bundle branch block; LAH, left		

anterior hemiblock; LPH, left posterior hemiblock