

Table 1 of the supplementary data. Full list of the 213 genes related to inherited cardiac diseases included in the next-generation sequencing panel

| Gene name | Codified protein |
|-----------------|----------------------------------------------------------------|
| <i>AARS2</i> | Alanine--tRNA ligase, mitochondrial |
| <i>ABCC9</i> | ATP-binding cassette, sub-family C (CFTR/MRP), member 9 |
| <i>ACAD9</i> | Acyl-CoA dehydrogenase family member 9, mitochondrial |
| <i>ACADM</i> | Medium-chain specific acyl-CoA dehydrogenase, mitochondrial |
| <i>ACADVL</i> | Very long-chain specific acyl-CoA dehydrogenase, mitochondrial |
| <i>ACTA1</i> | Actin, alfa 1, skeletal muscle |
| <i>ACTA2</i> | Actin, aortic smooth muscle |
| <i>ACTC1</i> | Actin, alpha cardiac muscle 1 |
| <i>ACTN2</i> | Alpha-actinin-2 |
| <i>ACVRL1</i> | Serine/threonine-protein kinase receptor R3 |
| <i>ADAMTSL4</i> | ADAMTS-like protein 4 |
| <i>AGK</i> | Acylglycerol kinase, mitochondrial |
| <i>AGL</i> | Glycogen debranching enzyme |
| <i>AGPAT2</i> | 1-acyl-sn-glycerol-3-phosphate acyltransferase beta |
| <i>AKAP9</i> | A-kinase anchor protein 9 |
| <i>ALMS1</i> | Alstrom syndrome protein 1 |
| <i>ANK2</i> | Ankyrin 2 |
| <i>ANK3</i> | Ankyrin-3 |
| <i>ANKRD1</i> | Ankyrin repeat domain-containing protein 1 |
| <i>APOA5</i> | Apolipoprotein A-V |
| <i>APOB</i> | Apolipoprotein B-100 |
| <i>APOC3</i> | Apolipoprotein C-III |
| <i>ATPAF2</i> | ATP synthase mitochondrial F1 complex assembly factor 2 |
| <i>BAG3</i> | BAG family molecular chaperone regulator 3 |
| <i>BMPR1B</i> | Bone morphogenetic protein receptor type-1B |
| <i>BMPR2</i> | Bone morphogenetic protein receptor type II |
| <i>BRAF</i> | Serine/threonine-protein kinase B-raf |

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|-----------------|-----------------------------------------------------------|
| <i>BSCL2</i> | Seipin |
| <i>CACNA1C</i> | Voltage-dependent L-type calcium channel subunit alpha-1C |
| <i>CACNA1D</i> | Voltage-dependent L-type calcium channel subunit alpha-1D |
| <i>CACNA2D1</i> | Voltage-dependent calcium channel subunit alpha-2/delta-1 |
| <i>CACNB2</i> | Voltage-dependent L-type calcium channel subunit beta-2 |
| <i>CALM1</i> | Calmodulin |
| <i>CALM2</i> | Calmodulin |
| <i>CALR3</i> | Calreticulin 3 |
| <i>CAPN3</i> | Calpain-3 |
| <i>CASQ2</i> | Calsequestrin-2 |
| <i>CAV1</i> | Caveolin-1 |
| <i>CAV3</i> | Caveolin-3 |
| <i>CBL</i> | E3 ubiquitin-protein ligase CBL |
| <i>CBS</i> | Cystathionine beta-synthase |
| <i>CETP</i> | Cholesteryl ester transfer protein |
| <i>COL1A1</i> | Collagen alpha-1(I) chain |
| <i>COL1A2</i> | Collagen alpha-2(I) chain |
| <i>COL3A1</i> | Collagen alpha-1(III) chain |
| <i>COL5A1</i> | Collagen alpha-1(V) chain |
| <i>COL5A2</i> | Collagen alpha-2(V) chain |
| <i>COQ2</i> | 4-hydroxybenzoate polyprenyltransferase, mitochondrial |
| <i>COX15</i> | Cytochrome c oxidase assembly protein COX15 homolog |
| <i>COX6B1</i> | Cytochrome c oxidase subunit 6B1 |
| <i>CRELD1</i> | Cysteine-rich with EGF-like domain protein 1 |
| <i>CRYAB</i> | Alpha-crystallin B chain |
| <i>CSRP3</i> | Cysteine and glycine-rich protein 3 |
| <i>CTF1</i> | Cardiotrophin 1 |
| <i>CTNNA3</i> | Catenin alpha-3 |
| <i>DES</i> | Desmin |
| <i>DLD</i> | Dihydrolipoyl dehydrogenase, mitochondrial |

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|----------------|---------------------------------------------------------------|
| <i>DMD</i> | Dystrophin |
| <i>DNAJC19</i> | Mitochondrial import inner membrane translocase subunit TIM14 |
| <i>DOLK</i> | Dolichol kinase |
| <i>DSC2</i> | Desmocollin 2 |
| <i>DSG2</i> | Desmoglein 2 |
| <i>DSP</i> | Desmoplakin |
| <i>DTNA</i> | Dystrobrevin alpha |
| <i>ELN</i> | Elastin |
| <i>EMD</i> | Emerin |
| <i>ENG</i> | Endoglin |
| <i>EYA4</i> | Eyes absent homolog 4 |
| <i>FAH</i> | Fumarylacetoacetate |
| <i>FBN1</i> | Fibrillin 1 |
| <i>FBN2</i> | Fibrillin 2 |
| <i>FHL1</i> | Four and a half LIM domains protein 1 |
| <i>FHL2</i> | Four and a half LIM domains 2 |
| <i>FHOD3</i> | FH1/FH2 domain-containing protein 3 |
| <i>FKRP</i> | Fukutin-related protein |
| <i>FKTN</i> | Fukutin |
| <i>FLNA</i> | Filamin-A |
| <i>FLNC</i> | Filamin-C |
| <i>FOXD4</i> | Forkhead box protein D4 |
| <i>GAA</i> | Lysosomal alpha-glucosidase |
| <i>GATA4</i> | Transcription factor GATA-4 |
| <i>GATA6</i> | Transcription factor GATA-6 |
| <i>GATAD1</i> | GATA zinc finger domain-containing protein 1 |
| <i>GDF2</i> | Growth/differentiation factor 2 |
| <i>GFM1</i> | Elongation factor G, mitochondrial |
| <i>GJA1</i> | Gap junction alpha-1 protein |
| <i>GJA5</i> | Gap junction alpha-5 protein |

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|---------------|--------------------------------------------------------------------------------|
| <i>GLA</i> | Alpha-galactosidase A |
| <i>GLB1</i> | Beta-galactosidase |
| <i>GNPTAB</i> | N-acetylglucosamine-1-phosphotransferase subunits alpha/beta |
| <i>GPD1L</i> | Glycerol-3-phosphate dehydrogenase 1-like protein |
| <i>GUSB</i> | Beta-glucuronidase |
| <i>HCN4</i> | Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4 |
| <i>HFE</i> | Hereditary hemochromatosis protein |
| <i>HRAS</i> | GTPase HRas |
| <i>JAG1</i> | Jagged-1 |
| <i>JPH2</i> | Junctophilin 2 |
| <i>JUP</i> | Junction plakoglobin |
| <i>KCNA5</i> | Potassium voltage-gated channel subfamily A member 5 |
| <i>KCND3</i> | Potassium voltage-gated channel subfamily D member 3 |
| <i>KCNE1</i> | Potassium voltage-gated channel subfamily E member 1 |
| <i>KCNE1L</i> | Potassium voltage-gated channel subfamily E member 1-like protein |
| <i>KCNE2</i> | Potassium voltage-gated channel subfamily E member 2 |
| <i>KCNE3</i> | Potassium voltage-gated channel subfamily E member 3 |
| <i>KCNH2</i> | Potassium voltage-gated channel subfamily H member 2 |
| <i>KCNJ2</i> | Inward rectifier potassium channel 2 |
| <i>KCNJ5</i> | G protein-activated inward rectifier potassium channel 4 |
| <i>KCNJ8</i> | ATP-sensitive inward rectifier potassium channel 8 |
| <i>KCNK3</i> | Potassium channel subfamily K member 3 |
| <i>KCNQ1</i> | Potassium voltage-gated channel subfamily KQT member 1 |
| <i>KLF10</i> | Krueppel-like factor 10 |
| <i>KRAS</i> | GTPase KRas |
| <i>LAMA2</i> | Laminin subunit alpha-2 |
| <i>LAMA4</i> | Laminin subunit alpha-4 |
| <i>LAMP2</i> | Lysosome-associated membrane glycoprotein 2 |
| <i>LDB3</i> | LIM domain-binding protein 3 |

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|---------------|---------------------------------------------------------------------|
| <i>LDLR</i> | Low density lipoprotein receptor |
| <i>LIAS</i> | Lipoyl synthase, mitochondrial |
| <i>LMNA</i> | Prelamin-A/C |
| <i>LRP6</i> | Low-density lipoprotein receptor-related protein 6 |
| <i>MAP2K1</i> | Dual specificity mitogen-activated protein kinase kinase 1 |
| <i>MAP2K2</i> | Dual specificity mitogen-activated protein kinase kinase 2 |
| <i>MIB1</i> | E3 ubiquitin-protein ligase MIB1 |
| <i>MLYCD</i> | Malonyl-CoA decarboxylase, mitochondrial |
| <i>MRPL3</i> | 39S ribosomal protein L3, mitochondrial |
| <i>MRPS22</i> | 28S ribosomal protein S22, mitochondrial |
| <i>MTO1</i> | Protein MTO1 homolog, mitochondrial |
| <i>MURC</i> | Muscle-related coiled-coil protein |
| <i>MYBPC3</i> | Myosin-binding protein C, cardiac-type |
| <i>MYH11</i> | Myosin-11 |
| <i>MYH6</i> | Myosin-6 |
| <i>MYH7</i> | Myosin-7 |
| <i>MLY2</i> | Myosin regulatory light chain 2, ventricular/cardiac muscle isoform |
| <i>MLY3</i> | Myosin light chain 3 |
| <i>MLYK</i> | Myosin light chain kinase, smooth muscle |
| <i>MLYK2</i> | Myosin light chain kinase 2, skeletal/cardiac muscle |
| <i>MYOT</i> | Myotilin |
| <i>MYOZ2</i> | Myozinin 2 |
| <i>MYPN</i> | Myopalladin |
| <i>NEBL</i> | Nebulette |
| <i>NEXN</i> | Nexilin |
| <i>NKX2-5</i> | Homeobox protein Nkx-2.5 |
| <i>NOTCH1</i> | Neurogenic locus notch homolog protein 1 |
| <i>NOTCH3</i> | Neurogenic locus notch homolog protein 3 |
| <i>NPPA</i> | Atrial natriuretic factor |
| <i>NRAS</i> | GTPase NRas |

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|---------------|--------------------------------------------------------------------------------|
| <i>OBSL1</i> | Obscurin-like protein 1 |
| <i>PCSK9</i> | Proprotein convertase subtilisin/kexin type 9 |
| <i>PDHA1</i> | Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial |
| <i>PDLIM3</i> | PDZ and LIM domain protein 3 |
| <i>PHKA1</i> | Phosphorylase b kinase regulatory subunit alpha, skeletal muscle isoform |
| <i>PITX2</i> | Pituitary homeobox 2 |
| <i>PKP2</i> | Plakophilin 2 |
| <i>PLN</i> | Cardiac phospholamban |
| <i>PLOD1</i> | Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 |
| <i>PMM2</i> | Phosphomannomutase 2 |
| <i>PRDM16</i> | PR domain zinc finger protein 16 |
| <i>PRKAG2</i> | 5'-AMP-activated protein kinase subunit gamma-2 |
| <i>PRKG1</i> | cGMP-dependent protein kinase 1 |
| <i>PSEN1</i> | Presenilin-1 |
| <i>PSEN2</i> | Presenilin 2 |
| <i>PTPN11</i> | Tyrosine-protein phosphatase non-receptor type 11 |
| <i>RAF1</i> | RAF proto-oncogene serine/threonine-protein kinase |
| <i>RANGRF</i> | Ran guanine nucleotide release factor |
| <i>RBM20</i> | Probable RNA-binding protein 20 |
| <i>RYR2</i> | Ryanodine receptor 2 |
| <i>SCN10A</i> | Sodium channel protein type 10 subunit alpha |
| <i>SCN1B</i> | Sodium channel subunit beta-1 |
| <i>SCN2B</i> | Sodium channel subunit beta-2 |
| <i>SCN3B</i> | Sodium channel subunit beta-3 |
| <i>SCN4B</i> | Sodium channel subunit beta-4 |
| <i>SCN5A</i> | Sodium channel protein type 5 subunit alpha |
| <i>SGCA</i> | Alpha-sarcoglycan |
| <i>SGCB</i> | Beta-sarcoglycan |
| <i>SGCD</i> | Delta-sarcoglycan |

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| <i>SHOC2</i> | Leucine-rich repeat protein SHOC-2 |
| <i>SKI</i> | Ski oncogene |
| <i>SLC22A5</i> | Solute carrier family 22 member 5 |
| <i>SLC25A4</i> | ADP/ATP translocase 1 |
| <i>SLC2A10</i> | Solute carrier family 2, facilitated glucose transporter member 10 |
| <i>SLMAP</i> | Sarcolemmal membrane-associated protein |
| <i>SMAD1</i> | Mothers against decapentaplegic homolog 1 |
| <i>SMAD3</i> | Mothers against decapentaplegic homolog 3 |
| <i>SMAD4</i> | Mothers against decapentaplegic homolog 4 |
| <i>SMAD9</i> | Mothers against decapentaplegic homolog 9 |
| <i>SNTA1</i> | Alpha-1-syntrophin |
| <i>SOS1</i> | Son of sevenless homolog 1 |
| <i>SPRED1</i> | Sprouty-related, EVH1 domain-containing protein 1 |
| <i>SURF1</i> | Surfeit locus protein 1 |
| <i>TAZ</i> | Tafazzin |
| <i>TBX1</i> | T-box transcription factor TBX1 |
| <i>TBX20</i> | T-box transcription factor TBX20 |
| <i>TBX5</i> | T-box transcription factor TBX5 |
| <i>TCAP</i> | Telethonin |
| <i>TGFB2</i> | Transforming growth factor beta-2 |
| <i>TGFB3</i> | Transforming growth factor, beta 3 |
| <i>TGFBR1</i> | TGF-beta receptor type-1 |
| <i>TGFBR2</i> | TGF-beta receptor type-2 |
| <i>TMEM43</i> | Transmembrane protein 43 |
| <i>TMEM70</i> | Transmembrane protein 70, mitochondrial |
| <i>TMPO</i> | Thymopoietin |
| <i>TNNC1</i> | Troponin C, slow skeletal and cardiac muscles |
| <i>TNNI3</i> | Troponin I, cardiac muscle |
| <i>TNNT2</i> | Troponin T, cardiac muscle |
| <i>TPM1</i> | Tropomyosin alpha-1 chain |

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| <i>TRDN</i> | Triadin |
| <i>TRIM63</i> | E3 ubiquitin-protein ligase TRIM63 |
| <i>TRPM4</i> | Transient receptor potential cation channel subfamily M member 4 |
| <i>TSFM</i> | Elongation factor Ts, mitochondria |
| <i>TTN</i> | Titin |
| <i>TTR</i> | Transthyretin |
| <i>TXNRD2</i> | Thioredoxin reductase 2, mitochondrial |
| <i>VCL</i> | Vinculin |

Table 2 of the supplementary data. Full list of the reasons for referral to the inherited cardiac disease unit

| Reason for referral | No. (%) |
|------------------------------------|------------------|
| Symptoms | 245 (46) |
| Family screening | 133 (25) |
| ECG abnormalities | 41 (8) |
| Casual finding on echocardiography | 41 (8) |
| Family history | 39 (7) |
| Abnormal physical examination | 27 (5) |
| Others | 4 (1) |
| TOTAL | 530 (100) |

Table 3 of the supplementary data. List of described genetic variants in our cohort of patients with excessive trabeculation of the left ventricle

| | Pathogenic or likely pathogenic genetic variants in probands (n = 88) | Pathogenic or likely pathogenic genetic variants in probands and relatives (n = 176) | All described genetic variants (including nonpathogenic variants and variants of unknown significance) (n = 247) |
|------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Complex genotype | 18 | 23 | 36 |
| <i>MYH7</i> | 16 | 38 | 46 |
| <i>TTN</i> | 11 | 16 | 23 |
| <i>ACTC1</i> | 10 | 49 | 49 |
| <i>MYBPC3</i> | 10 | 18 | 20 |
| <i>DSP</i> | 3 | 3 | 5 |
| <i>LDB3</i> | 3 | 3 | 4 |
| <i>BAG3</i> | 2 | 2 | 3 |
| <i>Notch1</i> | 2 | 2 | 3 |
| <i>ACTN2</i> | 1 | 1 | 1 |
| <i>DMD</i> | 1 | 1 | 1 |
| <i>HCN4</i> | 1 | 6 | 8 |
| <i>TBX20</i> | 1 | 5 | 5 |
| <i>FHOD3</i> | 0 | 0 | 3 |
| <i>MIB1</i> | 0 | 0 | 2 |
| <i>FLNC</i> | 1 | 1 | 3 |
| <i>JPH2</i> | 0 | 0 | 1 |
| <i>TNNT2</i> | 1 | 1 | 2 |

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| <i>NKX2-5</i> | 1 | 1 | 2 |
| <i>FHL1</i> | 1 | 1 | 1 |
| <i>JUP</i> | 1 | 1 | 1 |
| <i>RBM20</i> | 1 | 1 | 1 |
| <i>TNNC1</i> | 1 | 1 | 1 |
| <i>TNNI3</i> | 1 | 1 | 1 |
| <i>TPM1</i> | 1 | 1 | 1 |
| <i>RYR2</i> | 0 | 0 | 6 |
| <i>MYH6</i> | 0 | 0 | 1 |
| <i>CASQ2</i> | 0 | 0 | 2 |
| <i>JAG1</i> | 0 | 0 | 2 |
| <i>NKX2-6</i> | 0 | 0 | 1 |
| <i>DMN1L</i> | 0 | 0 | 1 |
| <i>KCNJ2</i> | 0 | 0 | 1 |
| <i>KRAS</i> | 0 | 0 | 1 |
| <i>MYOT</i> | 0 | 0 | 1 |
| <i>MYPN</i> | 0 | 0 | 1 |
| <i>PDLIM3</i> | 0 | 0 | 1 |
| <i>PMM2</i> | 0 | 0 | 1 |
| <i>SCN5A</i> | 0 | 0 | 1 |
| <i>TGFBR2</i> | 0 | 0 | 1 |
| <i>TMEM43</i> | 0 | 0 | 1 |
| <i>TXNRD2</i> | 0 | 0 | 1 |
| <i>MAP2K1</i> | 0 | 0 | 1 |

Table 4 of the supplementary data. Baseline characteristics and major adverse cardiovascular events

| | All (N = 530) | MACE (n = 106) | No MACE (n = 424) | Crude HR (95%CI) | P |
|-------------------------------------------------------|---------------|----------------|-------------------|-------------------------------|--------|
| <i>Clinical characteristics</i> | | | | | |
| Age at diagnosis, y | 44.1 ± 19.4 | 50.5 ± 17.0 | 42.5 ± 19.7 | 1.02 (1.01-1.03) | < .001 |
| Female sex | 235 (44.3) | 39 (36.8) | 196 (46.2) | 0.72 (0.48-1.07) | .102 |
| Proband | 391 (73.8) | 91 (85.8) | 300 (70.8) | 2.65 (1.53-4.58) | .001 |
| Positive family screening, n (% of probands) | 98 (43) | 21 (46) | 77 (41) | 1.00 ^a (0.55-1.80) | .994 |
| Positive genotype, n (% of genetic tests in probands) | 88 (40.7) | 26 (49.1) | 62 (38.0) | 1.59 ^b (0.93-2.74) | .090 |
| <i>Medical history</i> | | | | | |
| Hypertension | 115 (22.4) | 37 (36.6) | 78 (18.9) | 2.43 (1.62-3.66) | < .001 |
| Dyslipidemia | 122 (23.9) | 38 (38.0) | 84 (20.5) | 2.10 (1.40-3.15) | < .001 |
| Diabetes mellitus | 40 (7.8) | 18 (18.0) | 22 (5.4) | 2.63 (1.57-4.38) | < .001 |
| Smoking | 69 (18.9) | 18 (22.0) | 51 (18.0) | 1.58 (0.93-2.68) | .088 |
| BMI, kg/m ² | 25.3 (4.9) | 26.7 (5.8) | 24.9 (4.6) | 1.06 (1.02-1.10) | .002 |
| <i>Electrocardiogram</i> | | | | | |
| Atrial fibrillation | 39 (7.8) | 23 (24.0) | 16 (4.0) | 3.70 (2.33-5.88) | < .001 |
| QRS, ms | 103.2 (27.1) | 120.0 (30.6) | 99.4 (24.7) | 1.02 (1.01-1.03) | < .001 |
| QRS ≥120 ms | 132 (33.0) | 43 (53.1) | 89 (27.9) | 2.22 (1.43-3.45) | < .001 |
| LBBB | 68 (17.0) | 19 (23.5) | 49 (15.4) | 1.37 (0.81-2.33) | .237 |
| Echocardiography (n = 530, 100%) | | | | | |
| LVEF, % | 49.3 ± 16.2 | 38.2 ± 15.6 | 52.0 ± 15.1 | 0.96 (0.94-0.97) | < .001 |

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|---------------------------------------------------------|-------------|--------------|-------------|--------------------|--------|
| LVEDDi, mm/m ² | 29.2 ± 5.1 | 32.0 ± 5.4 | 28.5 ± 4.7 | 1.11 (1.08-1.15) | < .001 |
| LVESDi, mm/m ² | 20.1 ± 5.7 | 24.3 ± 7.1 | 19.4 ± 5.1 | 1.13 (1.09-1.17) | < .001 |
| TAPSE, mm | 21.5 ± 4.6 | 19.6 ± 5.2 | 21.9 ± 4.4 | 0.92 (0.87-0.97) | .002 |
| PASP, mmHg | 32.2 ± 11.0 | 36.3 ± 11.5 | 30.8 ± 10.5 | 1.03 (1.01-1.06) | .004 |
| LA diameter, mm | 38.1 ± 8.2 | 42.2 ± 8.9 | 37.1 ± 7.7 | 1.06 (1.04-1.09) | < .001 |
| Follow-up LVEF, % | 50.1 ± 14.4 | 38.7 ± 15.6 | 52.9 ± 12.6 | - | - |
| LVEF decline | 29 (5.5) | 14 (13.2) | 15 (3.5) | 3.71 (2.10 – 6.53) | < .001 |
| <i>Cardiovascular magnetic resonance (n = 403, 76%)</i> | | | | | |
| LVEF, % | 51.5 ± 15.0 | 40.8 ± 18.0 | 53.6 ± 13.5 | 0.95 (0.93-0.96) | < .001 |
| LVEDVi, mL/m ² | 89.8 ± 38.5 | 111.9 ± 49.4 | 85.8 ± 34.8 | 1.02 (1.01-1.02) | < .001 |
| LVESVi, mL /m ² | 45.6 ± 32.3 | 66.5 ± 44.9 | 42.0 ± 28.3 | 1.02 (1.01-1.02) | < .001 |
| LVSVi, mL/m ² | 43.6 ± 15.4 | 41.7 ± 15.8 | 43.9 ± 15.3 | 0.99 (0.97-1.01) | .339 |
| RVEF, % | 54.5 ± 11.6 | 52.4 ± 15.8 | 55.0 ± 10.5 | 0.98 (0.95-1.01) | .280 |
| RVEDVi, mL/m ² | 78.2 ± 26.7 | 75.6 ± 26.5 | 78.7 ± 26.8 | 1.00 (0.98-1.02) | .877 |
| RVESVi, mL/m ² | 37.0 ± 17.9 | 40.9 ± 22.2 | 36.3 ± 17.0 | 1.02 (1.00-1.05) | .107 |
| LGE | 66 (16.4) | 20 (28.6) | 46 (13.8) | 2.46 (1.46-4.13) | .001 |
| <i>Medical treatment^c</i> | | | | | |
| Beta-blockers | 291 (52) | 106 (85) | 185 (46) | - | - |
| ACE inhibitor/ARB | 263 (50) | 85 (68) | 178 (44) | - | - |
| Sacubitril-valsartan | 28 (5) | 18 (14) | 10 (3) | - | - |
| MRAs | 149 (28) | 69 (55) | 80 (20) | - | - |
| Ivabradine | 39 (8) | 14 (13) | 25 (6) | - | - |
| Diuretics | 135 (26) | 70 (56) | 65 (16) | - | - |
| OAC | 143 (27) | 70 (57) | 73 (18) | - | - |

ACE, angiotensin-converting enzyme; ARB, angiotensin receptor blocker; BMI, body mass index; CI, confidence interval; HR, hazard ratio; LA, left atrium; LBBB, left bundle branch block; LGE, late gadolinium enhancement; LVEDDi, left ventricular end-diastolic diameter indexed by body surface area (BSA); LVEDVi, left ventricular end-diastolic volume indexed by BSA; LVEF, left ventricular ejection fraction; LVESDi, left ventricular end-systolic diameter indexed by BSA; LVESVi, left ventricular end-systolic volume indexed by BSA; MACE, major adverse cardiovascular events; MRA, mineralocorticoid receptor antagonist; OAC, oral anticoagulation; PSAP, pulmonary systolic artery pressure; RVEDVi, right ventricular end-diastolic volume indexed by BSA; RVEF, right ventricular ejection fraction; RVESVi, right ventricular end-systolic volume indexed by BSA; TAPSE, tricuspid annular systolic excursion.

Unless otherwise indicated, the data are expressed as No. (%) or mean \pm standard deviation.

^aAmong probands who underwent family screening.

^b Among probands who underwent genetic testing.

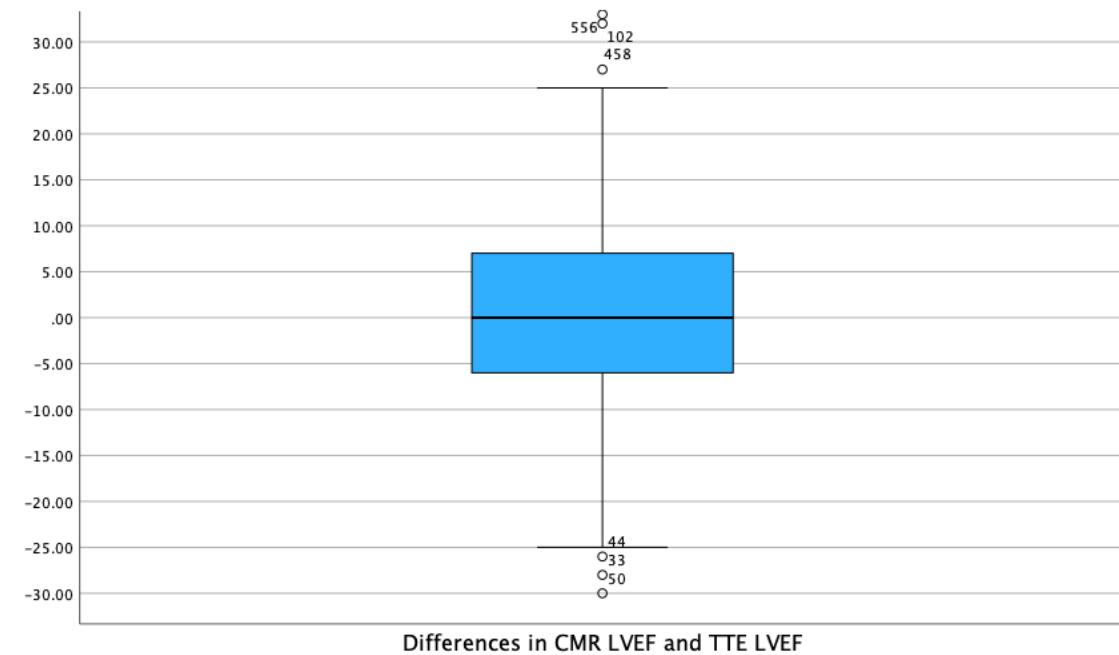
^c Time of treatment prescription was not available so HR were not analyzed.

Table 5 of the supplementary data. Multivariate analysis of hard MACE

| Variable | Adjusted HR (95%CI) | P |
|---------------------|---------------------|--------|
| Atrial fibrillation | 2.68 (1.63-4.38) | < .001 |
| QRS ≥ 120 ms | 2.79 (1.67-4.65) | < .001 |
| LVEF (%) | 0.94 (0.92-0.96) | < .001 |
| LVEF decline | 2.42 (1.26-4.67) | .008 |

LVEF, left ventricular ejection fraction.

Figure 1 of the supplementary data. Box-plot for the difference between CMR LVEF and TTE LVEF

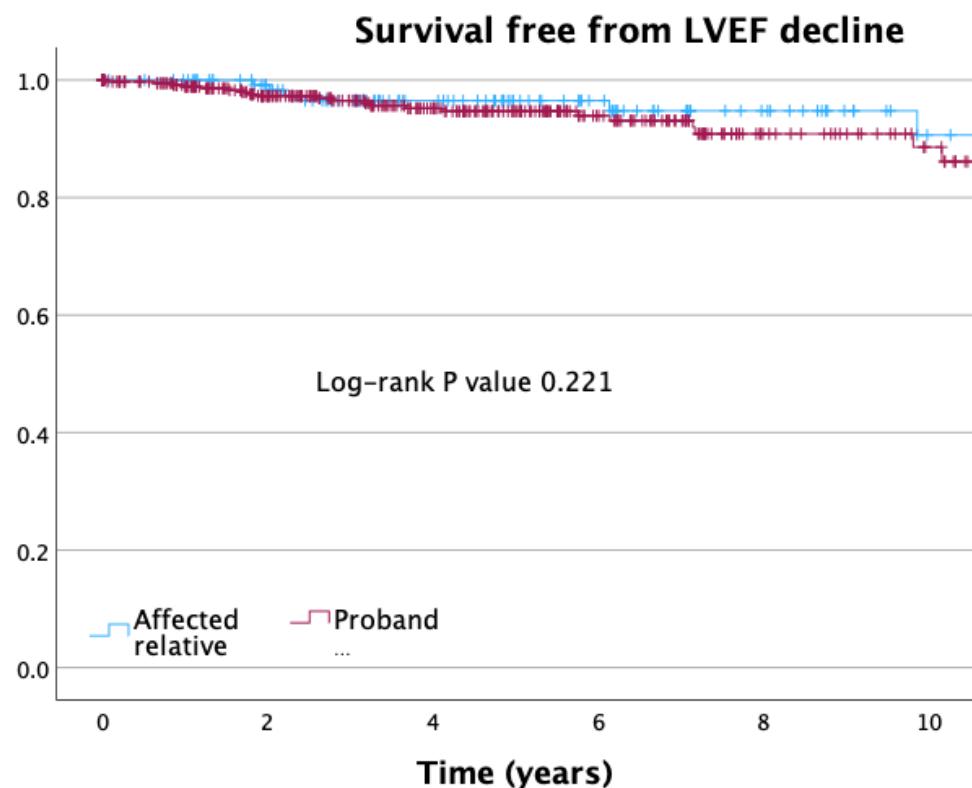


CMR LVEF, cardiac magnetic resonance; LVEF, left ventricular ejection fraction, TTE, transthoracic echocardiography

Difference between CMR LVEF and TTE LVEF: $0.6 \pm 10\%$ (mean \pm SD).

Intraclass correlation coefficient between CMR LVEF and TTE LVEF: 0.88 (95%CI 0.85-0.90).

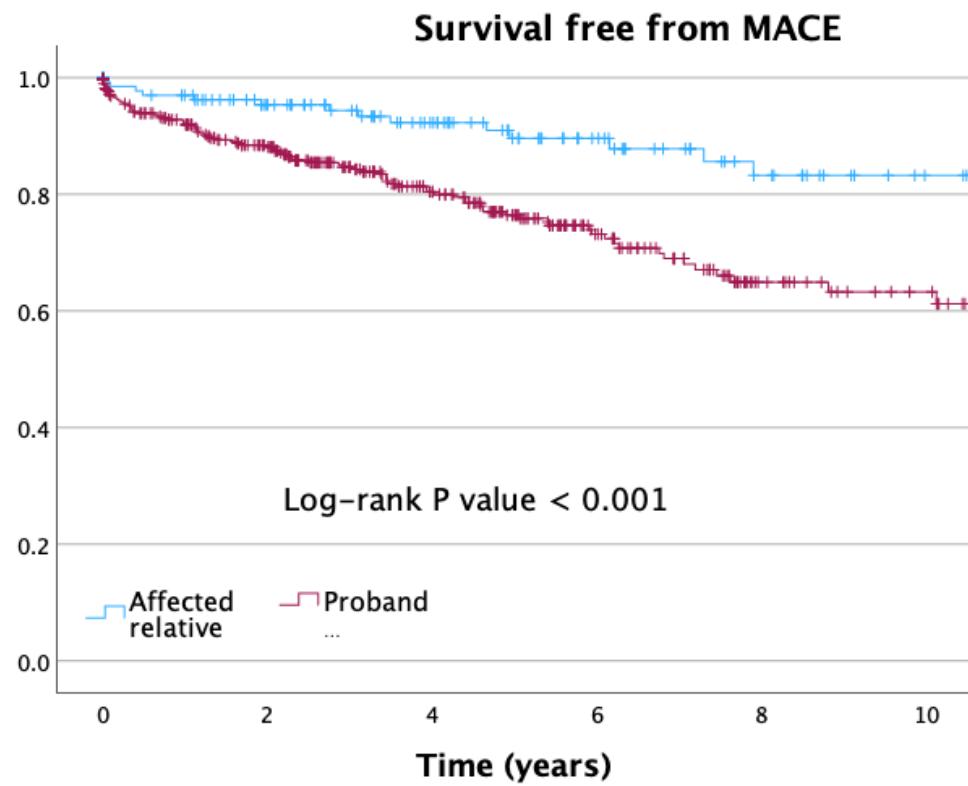
Figure 2 of the supplementary data. Event-free survival rates



Kaplan Meier curves for LVEF decline stratified by proband status.

LVEF, left ventricular ejection fraction.

Figure 3 of the supplementary data. Event-free survival rates



Kaplan Meier curves for MACE stratified by proband status.

MACE, major adverse cardiovascular event.