

REQUISITION FORM FOR GENETIC DISEASES AND PHARMACOGENETICS

CARDIOLOGY

REFERRING DOCTOR (MANDATORY):

Name (or print label): _____

ID number: _____

Hospital: _____

Service: _____

E-mail: _____

Telephone: _____

Signature: _____

Date: ____ / ____ / ____

Do you authorize the report to be sent by e-mail? Yes No

If yes, please write your institutional e-mail address: _____

PATIENT IDENTIFICATION (MANDATORY):

Name: _____

Gender: F M

Identification number: _____

Date of birth: ____ / ____ / ____

GenoMed use only:

Post label(s)

Conferred by: _____

CLINICAL DATA AND DIAGNOSIS*

Affected

Not affected (Asymptomatic)

Ideal expected date: ____ / ____ / ____

*Attach, whenever possible and can be justified, any relevant clinical information, family data including consanguinity, other cases in the family, family tree, etc.

FAMILIAL INFORMATION

Index case (affected)

Familial variant*

Spouse

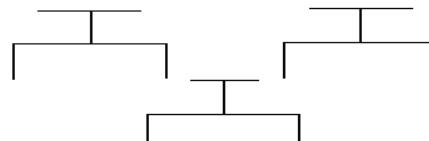
Known familial variant? NO YES

If yes*: Gene/RefSeq: _____ / Variant: _____

Was the index case studied at GenoMed? NO YES

*For carrier studies and predictive testing (familial variant study), please attach a copy of the index case, whenever possible and applicable.
According to the Portuguese law, (article 9º, law nº 12/2005), carrier studies and predictive testing (conducted in healthy individuals) it is ESSENTIAL that the clinical geneticist makes the request and that the patient informed consent is obtained.

Information for Pedigree construction:



SAMPLE

Blood (EDTA) DNA Tumor % (infiltration percentage)

Date: ____ / ____ / ____

Other (specify) _____

Hour: ____ : ____

INFORMED CONSENT (to be filled by the referring doctor)

I hereby declare that the patient informed consent for diagnosis was obtained.

YES NO

I hereby declare that the patient informed consent for investigation was obtained.

YES NO

CONTACT PERSONS: Dr.^a Diana Antunes, MD (dianaantunes@medicina.ulisboa.pt) / Dr. Yuri Chiodo, PhD (ychiodo@medicina.ulisboa.pt) Ext. 47301/48308

REQUISITION FORM FOR GENETIC DISEASES AND PHARMACOGENETICS

CARDIOLOGY

GENETIC TEST REQUIRED*

- Disease/Gene(s):** _____
- Study for familial variant** (*specify at "familial information"*)
- NGS genetic panel, with CNVs analysis** (*panel name*): _____
- Additional genes (*if you want to personalize the above panel please specify which genes do you want to add or remove*): _____

- Additional NGS genes analysis, with CNVs analysis** (based on total exome) for:
- NGS panel** (*panel name*): _____
- Gene(s)** (*specify*): _____

- DNA extraction**
- Other studies***: _____

* Consult our website. If the test you want is not listed, please contact us.

INFORMED CONSENT (mandatory – to be filled by the patient)

I hereby declare that I have read the Privacy Policy of GenoMed® - Diagnósticos de Medicina Molecular, S.A., available at <https://genomed.pt/en/privacy-and-cookies-policy/> and I give my consent to the processing of the personal data. Agree Not agree

I hereby declare to authorize the collection of mine/my _____ [affiliation], _____ [name], born on _____ / _____ / _____, to the execution of the genetic testing described above, whose purposes and limitations were explained by the aforementioned physician. Herewith I declare that I have been informed about the consequences resulting from the test results. I agree that the sample may be stored in order to allow repetition of the tests or further related tests at GenoMed or authorized partners around the world. The data/test results are subject to medical confidentiality and should only be disclosed to family members or other physicians with my permission. I am entitled to revoke this consent at any time.

Agree Not agree

I also declare that the data/test results may be used in scientific investigations and publications in an anonymized form when and only approved by the Ethics Committee.

Agree Not agree

(According to the Direction of General Health Standard nº 015/2013 updated.)

Patient's signature: _____ Date: _____ / _____ / _____

REQUISITION FORM FOR GENETIC DISEASES AND PHARMACOGENETICS

CARDIOLOGY

Cardiomyopathies

Cardiomyopathies - panel of 169 genes by NGS: A2ML1, AARS2, ABCC9, ACADVL, ACTA1, ACTC1, ACTN2, AGL, AKAP9, ALG10, ALMS1, ALPK3, ANK2, ANKRD1, ATP5E, BAG3, BRAF, CACNA1C, CALM1, CALR3, CASQ2, CAV3, CAVIN4, CBL, CDH2, CHRM2, COA5, CPT2, CRYAB, CSR3, CTF1, CTNNNA3, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSG3, DSP, DTNA, ELAC2, EMD, EPG5, EYA4, FHL1, FHL2, FHOD3, FKRP, FKTN, FLNC, FOXRED1, FXN, GAA, GATA4, GATA6, GATAD1, GLA, GLB1, GPD1L, GUSB, HAMP, HCN4, HFE, HFE2, HRAS, IDH2, ILK, JPH2, JUP, KCND3, KCNE1, KCNE2, KCNE3, KCNH2, KCNJ2, KCNJ5, KCNQ1, KLF10, KRAS, LAMA4, LAMP2, LDB3, LMNA, LRRC10, MAP2K1, MAP2K2, MED12, MIB1, MRPL3, MT01, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYO6, MYOM1, MYOZ1, MYOZ2, MYPN, NEBL, NEXN, NF1, NKX2-5, NPPA, NRAS, OBSCN, PDLM3, PKP2, PLEKHM2, PLN, PPA2, PRDM16, PRKAG2, PSEN1, PSEN2, PTPN11, RAB3GAP2, RAF1, RASA1, RBM20, RIT1, RPL3L, RRAS, RYR2, SCN1B, SCN3B, SCN4B, SCN5A, SC02, SDHA, SGCA, SGCB, SGCD, SHOC2, SLC22A5, SLC25A4, SLC25A4, SLC40A1, SNTA1, SOS1, SOS2, SPRED1, SYNE1, SYNE2, TAZ, TCAP, TGFB3, TJP1, TMEM43, TMEM70, TMPO, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRDN, TRIM63, TRPM4, TSFM, TTN, TTR, TXNRD2, VCL, XK

Arrhythmogenic cardiomyopathy - panel of 19 genes by NGS: CASQ2, CDH2, CTNNNA3, DES, DSC2, DSG2, DSP, FLNC, JUP, LMNA, MIB1, PKP2, PLN, RYR2, SCN5A, TGFB3, TJP1, TMEM43, TTN

Left ventricular noncompaction - panel of 16 genes by NGS: ACTC1, ACTN2, DTNA, FHL2, FHOD3, ILK, LAMP2, LMNA, LDB3, MIB1, MYBPC3, MYH7, PRDM16, TAZ, TNNT2, TPM1

Left ventricular noncompaction / Barth syndrome: TAZ gene

Dilated Cardiomyopathy

Dilated cardiomyopathy - extended panel of 101 genes by NGS: ABCC9, ACADVL, ACTA1, ACTC1, ACTN2, ALMS1, ANKRD1, BAG3, CAV3, CAVIN4, CHRM2, CPT2, CRYAB, CSR3, CTF1, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSP, EMD, EPG5, EYA4, FHL1, FHL2, FHOD3, FKRP, FKTN, FLNC, GATA4, GATA6, GATAD1, GLA, HAMP, HCN4, HFE, HFE2, IDH2, ILK, JPH2, JUP, KCND3, LAMA4, LAMP2, LDB3, LMNA, LRRC10, MED12, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYOZ1, MYPN, NEBL, NEXN, NKX2-5, NPPA, PDLM3, PKP2, PLEKHM2, PLN, PRDM16, PRKAG2, PSEN1, PSEN2, RAB3GAP2, RAF1, RBM20, RPL3L, RYR2, SCN1B, SCN5A, SDHA, SGCA, SGCB, SGCD, SLC22A5, SLC40A1, SOS1, SYNE1, SYNE2, TAZ, TCAP, TGFB3, TMEM43, TMEM70, TMPO, TNNC1, TNNI3, TNNT2, TPM1, TTN, TTR, TXNRD2, VCL, XK

Dilated cardiomyopathy - basic panel of 35 genes by NGS: ACTC1, ACTN2, ANKRD1, BAG3, CSR3, DES, DSG2, DMD, DSP, EMD, EYA4, FLNC, JPH2, LDB3, LMNA, MYBPC3, MYH6, MYH7, NEXN, PLN, PSEN1, PSEN2, RBM20, RPL3L, SCN5A, SGCD, TAZ, TCAP, TMPO, TNNC1, TNNI3, TNNT2, TPM1, TTN, VCL

Dilated cardiomyopathy: ACTC1 gene

Dilated cardiomyopathy: LMNA gene

Dilated cardiomyopathy: MYH7 gene

Dilated cardiomyopathy: TNNT2 gene

Dilated cardiomyopathy: TPM1 gene

Dilated cardiomyopathy: MYH7, TNNT2, TPM1, ACTC1 genes

Hypertrophic Cardiomyopathy

Hypertrophic cardiomyopathy (sarcomeric genes) - panel of 8 genes by NGS: ACTC1, MYBPC3, MYH7, MYL2, MYL3, TNNI3, TNNT2, TPM1

Hypertrophic cardiomyopathy - extended panel of 86 genes by NGS: A2ML1, AARS2, ACADVL, ACTA1, ACTC1, ACTN2, AGL, ALPK3, ANKRD1, ATP5E, BAG3, BRAF, CACNA1C, CALR3, CASQ2, CAV3, CBL, COA5, CPT2, CRYAB, CSR3, DES, ELAC2, FHL1, FHOD3, FLNC, FOXRED1, FXN, GAA, GATA4, GLA, GLB1, GUSB, HRAS, JPH2, KCNQ1, KLF10, KRAS, LAMP2, LDB3, LMNA, MAP2K1, MAP2K2, MRPL3, MT01, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYO6, MYOM1, MYOZ1, MYPN, NEBL, NEXN, NF1, NRAS, OBSCN, PDLM3, PLN, PRKAG2, PTPN11, RAF1, RASA1, RIT1, RRAS, RYR2, SCN2, SHOC2, SLC25A3, SLC25A4, SOS1, SOS2, SPRED1, TCAP, TMEM70, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TSFM, TTN, TTR, VCL

Hypertrophic cardiomyopathy - basic panel of 26 genes by NGS: ACTC1, ACTN2, ALPK3, CSR3, GLA, KRAS, LAMP2, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYOZ2, NEXN, PLN, PRKAG2, PTPN11, RAF1, RIT1, SOS1, TCAP, TNNC1, TNNI3, TNNT2, TPM1, TTR

Hypertrophic cardiomyopathy: ACTC1 gene

IMP 312_V.06

34900	Hypertrophic cardiomyopathy: CSR3 gene	O
34900	Hypertrophic cardiomyopathy: FHL1 gene	O
36351	Hypertrophic cardiomyopathy: MYBPC3 gene	O
36352	Hypertrophic cardiomyopathy: MYH7 gene	O
34900	Hypertrophic cardiomyopathy: MYL2 gene	O
34900	Hypertrophic cardiomyopathy: MYL3 gene	O
36354	Hypertrophic cardiomyopathy: TNNT3 gene	O
36353	Hypertrophic cardiomyopathy: TNNT2 gene	O
34900	Hypertrophic cardiomyopathy: TPM1 gene	O
34727	Fabry disease: GLA gene - index case	O
34726	Fabry disease: GLA gene - familial case	O

Arrhythmia / Cardiac Conduction Diseases

34900	Cardiac arrhythmias - panel of 202 genes by NGS: A2ML1, AARS2, ABCC9, ACAD9, ACADVL, ACTA1, ACTC1, AGK, AGL, AGPAT2, AKAP9, ALMS1, ANK2, ANKRD1, ANO5, ATP5E, ATPA2F, BAG3, BRAF, BSCL2, CACNA1C, CACNA1D, CACNA2D1, CALM1, CALM2, CALM3, CALR3, CAPN3, CASQ2, CAV3, CAVIN4, CDH2, CHRM2, COA5, COA6, COQ2, COX15, COX6B1, CRYAB, CSR3, CTNNNA3, DES, DLD, DMD, DNAJC19, DOLK, DPP6, DSC2, DSG2, DSG3, DSP, DTNA, ELAC2, EMD, EYA4, FAH, FHL1, FHL2, FHOD3, FKRP, FKTN, FLNC, FOXRED1, FXN, GAA, GATA4, GATA6, GATAD1, GFM1, GJA1, GJA5, GLA, GLB1, GNPTAB, GPD1L, GUSB, HCN4, HRAS, JPH2, JUP, KCNA1, KCNA5, KCND2, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ2, KCNJ5, KCNJ8, KCNK17, KCNK3, KCNQ1, KCNQ2, KCNT1, KRAS, LAMA2, LAMA4, LAMP2, LDB3, LDLR, LIAS, LMNA, LZTR1, MAP2K1, MAP2K2, MIB1, MLYCD, MRPL3, MRPL44, MRPS22, MT01, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYL4, MYL5, MYOM1, MYOT, MYOZ1, MYOZ2, MYPN, NEBL, NEXN, NF1, NKX2-5, NKX2-6, NNT, NPPA, NRAS, OBSCN, PDHA1, PDLM3, PHKA1, PITX2, PKP2, PLN, PMM2, PPA2, PRDM16, PRKAG2, PSEN1, PSEN2, PTPN11, RAF1, RANGRF, RASA2, RBM20, RIT1, RRAS, RYR2, SCN1A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCN9A, SC02, SDHA, SEMA3A, SGCA, SGCB, SGCD, SHOC2, SLC22A5, SLC25A3, SLC25A4, SLMAP, SNTA1, SOS1, SOS2, SPEG, SPRED1, SURF1, SYNE1, SYNE2, TAZ, TBX20, TBX5, TCAP, TGFB3, TJP1, TMEM43, TMEM70, TMPO, TNNC1, TNNI3, TNNI3K, TNNT2, TOR1AIP1, TPM1, TRDN, TRIM63, TRPM4, TSFM, TTN, TTR, TXNRD2, VCL, XK	O
34900	Sudden death - panel of 299 genes by NGS: A2ML1, AARS2, ABCA1, ABCA12, ABCC6, ABCC9, ABCG5, ABCG8, ACAD9, ACADVL, ACTA1, ACTA2, ACTC1, ACTN2, AGK, AGL, AGPAT2, AKAP9, AKT1, ALG10, ALG10B, ALMS1, ALPK3, ANK2, ANKRD1, ANO5, APOA5, APOB, APOC2, APOC3, APOE, APTX, ATP5E, ATPA2F, BAG3, BRAF, BSCL2, CACNA1C, CACNA1D, CACNA2D1, CACNB2, CALM1, CALM2, CALM3, CALR3, CAPN3, CASQ2, CAV3, CAVIN4, CBL, CBS, CDH2, CHRM2, CLCF1, COA5, COA6, COL5A1, COL5A2, COQ2, COX15, COX6B1, CPT1A, CPT2, CREB3L3, CRLF1, CRYAB, CSR3, CTF1, CTNNNA3, CYP27A1, DEPDPC5, DES, DLD, DMD, DNAJC19, DOLK, DPP6, DSC2, DSG2, DSG3, DSP, DTNA, EFEMP2, ELAC2, ELN, EMD, ENPP1, EPG5, EPHX2, EYA4, FAH, FBN1, FBN2, FGF12, FHL1, FHL2, FHOD3, FKRP, FKTN, FLNC, FOXRED1, FXN, GAA, GATA4, GATA5, GATA6, GATAD1, GFM1, GHR, GJA1, GJA5, GLA, GLB1, GNAI2, GNPTAB, GPD1L, GPIPBP1, GUSB, HAMP, HCN4, HFE, HFE2, HRAS, IDH2, IKZF1, ILK, ITIH4, JPH2, JUP, KCNA1, KCNA5, KCND2, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ2, KCNJ5, KCNJ8, KCNK17, KCNK3, KCNQ1, KCNQ2, KCNQ3, KCNT1, KLF10, KRAS, LAMA2, LAMA4, LAMP2, LDB3, LDLR, LDLRAP1, LIAS, LIPA, LIP1, LMF1, LMNA, LPL, LPR6, LRRC10, LZTR1, MAP2K1, MAP2K2, MAT2A, MED12, MFAP5, MIB1, MLYCD, MRPL3, MRPL44, MRPS22, MT01, MYBPC3, MYH11, MYH6, MYH7, MYL2, MYL3, MYL4, MYL5, MYLK2, MYO6, MYOM1, MYOT, MYOZ1, MYOZ2, MYPN, NEBL, NEXN, NF1, NKX2-5, NKX2-6, NNT, NOTCH1, NPPA, NRAS, OBSCN, PCDH19, PCSK9, PCDA1, PDLM3, PHKA1, PITX2, PKP2, PLEKHM2, PLN, PLD1, PMM2, PPA2, PPP1R17, PRDM16, PRKAG2, PRKG1, PRRT2, PSEN1, PSEN2, PTPN11, RAB3GAP2, RAF1, RANGRF, RASA1, RASA2, RBM20, RIT1, RRAS, RPL3L, RYR2, SCN10A, SCN1A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCN9A, SC02, SDHA, SEMA3A, SGCA, SGCB, SGCD, SHOC2, SKI, SLC22A5, SLC25A3, SLC25A4, SLC2A1, SLC2A10, SLC40A1, SLMAP, SMAD3, SMAD4, SMAD6, SNTA1, SOS1, SOS2, SPEG, SPRED1, SURF1, SYNE1, SYNE2, TAZ, TBX20, TBX5, TCAP, TGFR2, TGFB3, TGFB1, TGFB2, TJP1, TMEM43, TMEM70, TMPO, TNNC1, TNNI3, TNNI3K, TNNT2, TNXB, TOR1AIP1, TPM1, TRDN, TRIM63, TRPM4, TSFM, TTN, TTR, TXNRD2, USF1, VCL, XK	O
34900	Brugada syndrome - panel of 42 genes by NGS: ABCC9, AKAP9, ANK2, ANK3, CACNA1C, CACNA1D, CACNB2, CALM1, CALM2, CALM3, CAV3, DPP6, FGF12, GPD1L, HCN4, IRX5, KCND2, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ2, KCNJ5, KCNJ8, KCNQ1, PKP2, PDXN1, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SEMA3A, SLMAP, SNTA1, TRDN, TRPM4	O

REQUISITION FORM FOR GENETIC DISEASES AND PHARMACOGENETICS

CARDIOLOGY

34900	Brugada syndrome: SCN5A gene	O
34900	Long QT syndrome - panel of 17 genes by NGS: AKAP9, ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, SCN4B, SCN5A, SNTA1, TRDN	O
34900	Long QT syndrome: KCNQ1, KCNH2, SCN5A genes	O
34900	Long QT syndrome (LQT1): KCNQ1 gene	O
34900	Long QT syndrome (LQT2): KCNH2 gene	O
34900	Long QT syndrome (LQT3): SCN5A gene	O
34900	Long QT syndrome (LQT5): KCNE1 gene	O
34900	Catecholaminergic polymorphic ventricular tachycardia - panel of 8 genes by NGS: ANK2, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TRDN	O

Aortopathies / Conjunctivopathies

34900	Aortic/Connective tissue diseases - basic panel of 64 genes by NGS: ABL1, ACTA2, ADAMTS10, ADAMTS17, ADAMTS2, ADAMTS4, ATP7A, B3GALT6, B3GLCT, B4GALT7, BGN, C1R, C1S, CBS, CHST14, COL11A1, COL11A2, COL12A1, COL1A1, COL1A2, COL2A1, COL3A1, COL4A1, COL5A1, COL5A2, COL9A1, COL9A2, DSE, EFEMP2, ELN, FBN1, FBN2, FKBP14, FLCN, FLNA, FOXE3, GAA, HRAS, IPO8, KCNJ8, LOX, LTBP2, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PRDM5, PRKG1, PTPN11, SKI, SLC2A10, SLC39A13, SMAD2, SMAD3, SMAD4, TGFB2, TGFB3, TGFBR1, TGFBR2, TNXB, ZNF469	O
-------	---	---

34900	Aortic/Connective tissue diseases - extended panel of 121 genes by NGS: ABCC6, ABL1, ACTA2, ACVR1, ADAMTS10, ADAMTS17, ADAMTS2, ADAMTS4, AEBP1, ALDH18A1, ALPL, ARHGAP31, ATP6VOA2, ATP6V1A, ATP6V1E1, ATP7A, B3GALT6, B3GAT3, B3GLCT, B4GALT7, BGN, BMP1, BMP4, C1R, C1S, CBS, CHST14, COL11A1, COL11A2, COL12A1, COL18A1, COL1A1, COL1A2, COL2A1, COL3A1, COL4A1, COL5A1, COL5A2, COL6A1, COL6A2, COL6A3, COL9A1, COL9A2, COL9A3, COX7B, CREB3L1, CRTAP, DCC, DLL4, DOCK6, DSE, EFEMP2, ELN, EMILIN1, EOGT, FBLN5, FBN1, FBN2, FKBP10, FKBP14, FLCN, FLNA, FOXE3, GAA, GGCX, GZFR1, IPO8, GORAB, GYPC, HRAS, IFITM5, KCNJ8, KIF22, LOX, LRP5, LTBP2, LTBP4, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, P3H1, PIEZ02, PLOD1, PLOD2, PLOD3, PLS3, PP1B, PRDM5, PRKG1, PTPN11, PYCR1, RBPJ, RET, RIN2, ROBO3, SERPINF1, SERPINH1, SGMS2, SKI, SLC2A10, SLC39A13, SMAD2, SMAD3, SMAD4, SMAD6, SP7, SPARC, TAB2, TGFB2, TGFB3, TGFBR1, TGFBR2, TMEM38B, TNXB, TPSAB1, VCAN, WNT1, ZNF469	O
-------	---	---

34900	Aortic diseases - panel of 31 genes by NGS: ACTA2, CBS, COL3A1, COL5A1, COL5A2, EFEMP2, ELN, FBN1, FBN2, FLNA, GATA5, IPO8, LOX, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, SMAD6, TGFB2, TGFB3, TGFBR1, TGFBR2, TNXB	O
-------	---	---

34900	Ehlers-Danlos syndrome - panel of 22 genes by NGS: ADAMTS2, AEBP1, ATP7A, B3GALT6, B4GALT7, C1S, CHST14, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, DSE, FKBP14, FLNA, KIF22, PLOD1, PRDM5, SCN9A, SLC39A13, TNXB, ZNF469	O
-------	---	---

34900	Marfan and Marfan-like syndrome - panel of 9 genes by NGS: COL3A1, FBN1, FBN2, SKI, SLC2A10, SMAD3, TGFB2, TGFBR1, TGFBR2	O
-------	--	---

34900	Aneurysm/Thoracic aortic dissection: ACTA2 gene	O
-------	--	---

34900	Ehlers-Danlos syndrome, classic form: COL5A1 gene	O
-------	--	---

34900	Ehlers-Danlos syndrome, vascular type: COL3A1 gene	O
-------	---	---

34900	Loeys-Dietz syndrome: TGFBR1 gene	O
-------	--	---

34900	Loeys-Dietz syndrome: TGFBR2 gene	O
-------	--	---

34900	Marfan syndrome: FBN1 gene	O
-------	-----------------------------------	---

Other pathologies

34900	Cardiomyopathy and arrhythmia - panel of 228 genes by NGS: A2ML1, AARS2, ABCC9, ACAD9, ACADVL, ACTC1, ACTN2, AGK, AGL, AGPAT2, AKAP9, ALG10, ALMS1, ALPK3, ANK2, ANKRD1, ANO5, ATP5E, ATPAF2, BAG3, BRAF, BCL2, CACNA1C, CACNA1D, CACNA2D1, CALM1, CALM2, CALM3, CALR3, CAPN3, CASQ2, CAV3, CAVIN4, CBL, CDH2, CHRMB2, COA5, COA6, COQ2, COX15, COXB1, CPT2, CRYAB, CSRSP3, CTF1, CTNNA3, DES, DLD, DMD, DNAJC19, DOLK, DPP6, DSC2, DSG2, DSG3, DSP, DTNA, ELAC2, EMD, EPG5, EYA4, FAH, FHL1, FHL2, FHOD3, FKRP, FKTN, FLNC, FOXRED1, FXN, GAA, GATA4, GATA6, GATAD1, GMF1, GJA1, GJA5, GLA, GLB1, GNPTAB, GPD1L, GUSB, HAMP, HCN4, HFE, HFE2, HRAS, IDH2, ILK, JPH2, JUP, KCNA1, KCNA5, KCND2, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ2, KCNJ5, KCNJ8, KCNK17, KCNK3, KCNQ1, KCNQ2, KCNT1, KLF10, KRAS, LAMA2, LAMA4, LAMP2, LDB3, LDLR, LIAS, LMNA, LRRC10, LZTR1, MAP2K1, MAP2K2, MED12, MIB1, MLYCD, MRPL3, MRPL44, MRPS22, MT01, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYL4, MYLK2, MYO6, MYOM1, MYOT, MYOZ1, MYOZ2, MYPN, NEBL, NEXN, NF1, NKX2-5, NKX2-6, NNT, NPPA, NRAS, OBSCN, PDHA1, PDLM13, PHKA1, PITX2, PKP2, PLEKHM2, PLN, PMM2, PPA2, PRDM16, PRKAG2, PSEN1, PSEN2, PTPN11, RAB3GAP2, RAF1, RANGRF, RASA1, RASA2, RBM20, RIT1, RPL3L, RRAS, RYR2, SCN1A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCN9A, SC02, SDHA, SEMA3A, SGCA, SGCB, SGCD, SHOC2, SLC22A5, SLC25A3, SLC25A4, SLC40A1, SLMAP, SNTA1, SOS1, SOS2, SPEG, SPRED1, SURF1, SYNE1, SYNE2, TAB2, TAZ, TBX20, TBX5, TCAP, TFR2, TGFB3, TJP1, TMEM43, TMEM70, TMPO, TNNC1, TNNI3, TNNI3K, TNNT2, TOR1AIP1, TPM1, TRDN, TRIM63, TRPM4, TSFM, TTN, TTR, TXNRD2, VCL, XK	O
34900	Noonan syndrome / Rasopathies - panel of 25 genes by NGS: A2ML1, BRAF, CBL, FGD1, HRAS, KAT6B, KRAS, LZTR1, MAP2K1, MAP2K2, MRAS, NF1, NRAS, PPP1CB, PTPN11, RAF1, RASA1, RASA2, RIT1, RRAS, RRAS2, SHOC2, SOS1, SOS2, SPRED1	O
34900	Ciliopathies - panel of 176 genes by NGS: ACVR2B, ADGRV1, AH1, AIPL1, ALMS1, ANKS6, ARL13B, ARL6, ARMC4, ATXN10, B9D1, B9D2, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, C2orf59, C2orf71, C5orf42, CC2D2A, CCDC103, CCDC114, CCDC151, CCDC172, CCDC28B, CCDC39, CCDC40, CCDC65, CCDC96, CCNO, CDH23, CENPF, CEP104, CEP120, CEP164, CEP290, CEP295, CEP41, CEP83, CFAP300, CFAP53, CFTR, CLRN1, CRB1, CRELD1, CRX, CSP1, DCDC2, DEUP1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAH1, DNAH11, DNAH5, DNAH8, DNAH9, DNAI1, DNAI2, DNAJB13, DNAL1, DRC1, DYNC2H1, EVC, EVC2, EXOC6B, EXOC8, FAM166B, FOXH1, GAS2L2, GAS8, GDF1, GLIS2, GUCY2D, HYDIN, HYLS1, IFT122, IFT140, IFT172, IFT27, IFT43, IFT80, IMPDH1, INPP5E, INV5, IQCB1, KCNJ13, KIAA0556, KIAA0586, KIF14, KIF7, LCA5, LEFTY2, LRAT, LRRK34, LRRK6, LZTL1, MAPKBP1, MCIDAS, MKKS, MKS1, MRE11, MYO7A, NEK1, NEK8, NKX2-5, NME8, NODAL, NPHP1, NPHP3, NPHP4, OFD1, PCDH15, PDE6D, PIEZ02, PIH1D3, PKD2, PKHD1, RD3, RDH12, RPE65, RPGR, RPGRIP1, RPGRIP1L, RSPH1, RSPH3, RSPH4A, RSPH9, SCNN1A, SCNN1B, SCNN1G, SDCCAG8, SPAG1, SPATA7, TCTN1, TCTN2, TCTN3, TMEM107, TMEM138, TMEM17, TMEM216, TMEM231, TMEM237, TMEM67, TOPORS, TRIM32, TSC1, TSC2, TTC21B, TTC23, TTC25, TTC6, TTC8, TULP1, UMOD, USH1C, USH1G, USH2A, VHL, WDPCP, WDR19, WDR34, WDR35, WDR60, WHRN, XPNPEP3, ZIC3, ZMYND10, ZNF423	O
34900	Heritable pulmonary arterial hypertension - panel of 11 genes by NGS: ACVRL1, BMPR1B, BMPR2, CAV1, CBLN2, EIF2AK4, ENG, FOXF1, KCNA5, KCNK3, SMAD9	O
34900	Monogenic hypertension - panel of 27 genes by NGS: AOC1, ASIC3, CLCNKB, CUL3, CYP11B1, CYP11B2, CYP17A1, HSD11B2, KCNH2, KCNJ1, KLHL3, NOS3, NR3C2, PDE3A, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SLC12A1, SLC12A3, SCNN1B, SCNN1G, VHL, WNK1, WNK4	O
34900	Vascular and lymphatic malformations - panel of 63 genes by NGS: ACVRL1, ADAMTS13, ADAMTS3, AKT1, AKT3, ANTXR1, ATM, BMPR2, BRAF, CAV1, CBL, CCBE1, CCM2, DOCK6, ELMO2, ENG, EPHB4, FAT4, FLT4, FOXC2, GATA2, GDF2, GJC2, GLMN, GNAQ, KCNK3, KDR, KIF11, KRAS, KRIT1, LZTR1, MAP2K1, MAP3K3, MTOR, NF1, NF2, NRAS, PDCD10, PDGFRB, PIEZO1, PIK3CA, PTEN, PTPN11, RAF1, RASA1, RIT1, SHOC2, SMAD2, SMAD3, SMAD4, SMARCB1, SOS1, SOX18, SPRED1, STAMBP, TEK, TGFB2, TGFB3, TGFBR1, TGFBR2, TSC1, TSC2, VEGFC	O
34900	Angiotensin converting enzyme (ACE) I/D polymorphism genotype	O