Genetics Diagnostic Laboratory
Test Requisition for Mainstream Providers

Blood Work Instructions
For Non-CHEO Patients:
Bring requisition to local community lab for blood collection

Sample to be shipped to:
Genetics Diagnostics Laboratory
401 Smyth Road, Rm W3401
Ottawa, ON, K1H 8L1
Tel: (613) 738-3230
Fax: (613) 738-4814
Website: www.cheo.on.ca/GDL

Patient Name: Last First Initial

Health Card Number:

DOB (yy/mm/dd):

Address:

Telephone:

Legal Sex: ☐ Male ☐ Female ☐ Unknown

Optional - Sex assigned at birth: ☐ Male ☐ Female ☐ Unknown ☐Uncertain ☐ Not recorded

Priority of Testing	Sample Type	For Lab Use Only
☐ Routine ☐ Expedited (clinical management contingent upon STAT results)	☐ Blood 2×6 mL EDTA ☐ Blood 2×3 mL EDTA ☐ Blood 3 mL EDTA ☐ DNA _____ µg ☐ Other: _____ source: _____	Collection Date: _____ Collection Centre: _____ Collected By:

Billing (Non-OHIP / Institutional Only- *Attach Ministry of Health or IFHP approval documentation)

☐ Ministry of Health Approved (e.g. RAMQ)*
☐ Ministry of Health Pending Approval
☐ IFHP Approved*
☐ Non-insured (i.e. self-pay)

☐ Institutional Billing (complete details below)
Institution Name:
City: Province: Postal Code:
Tel: Fax:

Authorizing Health Care Provider(s)

Provider Name:
Registration #:
Address:
Telephone: Fax:
CC Provider:
Registration #:
Address:
Telephone: Fax:

Patient Consent and Privacy

1. Confirmation of consent: Patients will be able to access reports via CHEO's MyChart or request a copy from the ordering provider. Unless opted out below, positive (P/LP) and VUS results trigger automatic Genetics referral. Negative results may still warrant referral at the clinician's discretion.

☐ **Opt-out:** Do NOT auto-refer to Genetics or release results to patient.
Genetic counselling is recommended for positive/VUS results (find a clinic via the CAGC "Find a Clinic" tool).

2. Sharing results for family testing: By checking the box below, the patient authorizes CHEO to use their results to guide testing or interpretation for relatives. Results are used only to inform family member testing decisions. Consent can be changed at any time by contacting the lab.

☐ Patient consents to sharing results with family members

Clinical Indication (required- testing will not proceed unless completed)

For Hereditary Cancer Core Panel:

☐Breast cancer ≤ 50 yrs, TNBC, male, bilateral, or ≥2 primaries
☐Epithelial ovarian, fallopian tube, or peritoneal cancer
☐Pancreatic or biliary tract cancer
☐Guide systemic therapy or surgical decision making
☐Prostate cancer ≤ 50 yrs, metastatic, or high-risk locally advanced
☐Colorectal cancer ≤ 50 yrs (refer to Genetics if dMMR)
☐Endometrial cancer ≤ 50 yrs (refer to Genetics if dMMR)
☐Gastric or GEJ adenocarcinoma ≤ 50 yrs

For all other panels, specify clinical features:

Panel Requested

☐ **Hereditary Cancer Core Panel**
☐ **TTR only (amyloidosis)** ☐ **Adult CM** ☐ **Pediatric CM** ☐ **Adult HCM** ☐ **Pediatric HCM**
☐ **Combined Pediatric CM and Arrhythmia** ☐ **Combined Adult CM and Arrhythmia**
☐ **Comprehensive Thoracic Aortic Aneurysms and Dissections**

Gene content - Hereditary Cancer Panels

Panel	# Genes	Genes Included
Hereditary Cancer Core Panel	40	APC, ATM, AXIN2, BAP1, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, CTNNA1, EPCAM, GALNT12, GREM1, HOXB13, MBD4, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RAD51C, RAD51D, RNF43, RPS20, SDHB, SDHD, SMAD4, STK11, TP53

Gene content - Cardiomyopathy and Arrhythmia Panels

Panel	# Genes	Genes Included
Cardiomyopathy Panels		
Adult HCM	45	ABCC9, ACTC1, ACTN2, ALPK3, BRAF, CACNA1C, CSRP3, DES, FHL1, FHOD3, FLNC, GLA, HRAS, JPH2, KLHL24, KRAS, LAMP2, LZTR1, MAP2K1, MAP2K2, MRAS, MT-TI, MYBPC3, MYH7, MYL2, MYL3, MYO6, NRAS, PLN, PPP1CB, PRKAG2, PTPN11, RAF1, RIT1, RRAS2, SHOC2, SOS1, SOS2, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTR, VCL
Adult Cardiomyopathy	81	ABCC9, ACADVL, ACTC1, ACTN2, ALPK3, BAG3, BRAF, CACNA1C, CAV3, CSRP3, CTNNA3, DES, DMD, DSC2, DSG2, DSP, DYSF, EMD, FHL1, FHOD3, FKRP, FKTN, FLNC, GAA, GATA4, GLA, HCN4, HRAS, JPH2, JUP, KLHL24, KRAS, LAMP2, LDB3, LMNA, LZTR1, MAP2K1, MAP2K2, MIB1, MRAS, MT-TI, MYBPC3, MYH7, MYL2, MYL3, MYO6, NEXN, NKX2-5, NRAP, NRAS, OBSCN, PKP2, PLEKHM2, PLN, PPP1CB, PRDM16, PRKAG2, PTPN11, RAF1, RBM20, RIT1, RRAGD, RRAS2, RYR2, SCN5A, SHOC2, SOS1, SOS2, TAFAZZIN, TBX5, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRIM63, TTN, TTR, VCL
Pediatric HCM	56	ABCC9, ACTC1, ACTN2, AGL, ALPK3, BRAF, CACNA1C, CBL, CSRP3, DES, FHL1, FHOD3, FLNC, GAA, GLA, HRAS, JPH2, KLHL24, KRAS, LAMP2, LZTR1, MAP2K1, MAP2K2, MAP3K8, MRAS, MT-TI, MTO1, MYBPC3, MYH7, MYL2, MYL3, MYO6, NF1, NRAS, PLN, PPP1CB, PRKAG2, PTPN11, RAF1, RIT1, RRAS, RRAS2, SHOC2, SLC22A5, SLC25A4, SOS1, SOS2, SPRED2, TAB2, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTR, VCL
Pediatric Cardiomyopathy	100	ABCC9, ACADVL, ACTC1, ACTN2, AGL, ALMS1, ALPK3, BAG3, BRAF, CACNA1C, CAV3, CBL, CPT2, CSRP3, CTNNA3, DES, DMD, DSC2, DSG2, DSP, DYSF, EMD, FHL1, FHOD3, FKRP, FKTN, FLNC, GAA, GATA4, GLA, HADHA, HADHB, HCN4, HRAS, JPH2, JUP, KLHL24, KRAS, LAMP2, LDB3, LMNA, LZTR1, MAP2K1, MAP2K2, MAP3K8, MIB1, MRAS, MT-TI, MTO1, MYBPC3, MYH7, MYL2, MYL3, MYO6, NEXN, NF1, NKX2-5, NRAP, NRAS, OBSCN, PKP2, PLEKHM2, PLN, PPA2, PPP1CB, PRDM16, PRKAG2, PTPN11, RAF1, RBM20, RIT1, RRAGD, RRAS, RRAS2, RYR2, SCN5A, SGCD, SHOC2, SLC22A5, SLC25A20, SLC25A4, SOS1, SOS2, SPRED2, TAB2, TAFAZZIN, TBX20, TBX5, TCAP, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRIM63, TTN, TTR, VCL
Combined Cardiomyopathy and Arrhythmia Panels		
Adult CM and Arrhythmia	96	ABCC9, ACADVL, ACTC1, ACTN2, ALPK3, BAG3, BRAF, CACNA1C, CALM1, CALM2, CALM3, CASQ2, CAV3, CSRP3, CTNNA3, DES, DMD, DSC2, DSG2, DSP, DYSF, EMD, FHL1, FHOD3, FKRP, FKTN, FLNC, GAA, GATA4, GLA, HCN4, HRAS, JPH2, JUP, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, KLHL24, KRAS, LAMP2, LDB3, LMNA, LZTR1, MAP2K1, MAP2K2, MIB1, MRAS, MT-TI, MYBPC3, MYH7, MYL2, MYL3, MYO6, NEXN, NKX2-5, NRAP, NRAS, OBSCN, PKP2, PLEKHM2, PLN, PPA2, PPP1CB, PRDM16, PRKAG2, PTPN11, RAF1, RBM20, RIT1, RRAGD, RRAS2, RYR2, SCN5A, SHOC2, SLC22A5, SLC4A3, SOS1, SOS2, TAFAZZIN, TBX5, TECRL, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRDN, TRIM63, TRPM4, TTN, TTR, VCL
Pediatric CM and Arrhythmia	113	ABCC9, ACADVL, ACTC1, ACTN2, AGL, ALMS1, ALPK3, BAG3, BRAF, CACNA1C, CALM1, CALM2, CALM3, CASQ2, CAV3, CBL, CPT2, CSRP3, CTNNA3, DES, DMD, DSC2, DSG2, DSP, DYSF, EMD, FHL1, FHOD3, FKRP, FKTN, FLNC, GAA, GATA4, GLA, HADHA, HADHB, HCN4, HRAS, JPH2, JUP, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, KLHL24, KRAS, LAMP2, LDB3, LMNA, LZTR1, MAP2K1, MAP2K2, MAP3K8, MIB1, MRAS, MT-TI, MTO1, MYBPC3, MYH7, MYL2, MYL3, MYO6, NEXN, NF1, NKX2-5, NRAP, NRAS, OBSCN, PKP2, PLEKHM2, PLN, PPA2, PPP1CB, PRDM16, PRKAG2, PTPN11, RAF1, RBM20, RIT1, RRAGD, RRAS, RRAS2, RYR2, SCN5A, SGCD, SHOC2, SLC22A5, SLC25A20, SLC25A4, SLC4A3, SOS1, SOS2, SPRED2, TAB2, TAFAZZIN, TBX20, TBX5, TCAP, TECRL, TMEM43, TMEM70, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRDN, TRIM63, TRPM4, TTN, TTR, VCL

Gene content - Vascular Connective Tissue / TAAD Panels

Panel	# Genes	Genes Included
Familial Thoracic Aortic Aneurysms and Aortic Dissections	19	ACTA2, ARIH1, COL3A1, EFEMP2, FBN1, FOXE3, LOX, MYH11, MYLK, PRKG1, ROBO4, SLC2A10, SMAD2, SMAD3, TGFB2, TGFB3, TGFBR1, TGFBR2, THSD4