CARDIOLOGIE DE MONTRÉAL	Test requisition	form - CARDI	OVASCULAR GENETICS
Molecular Diagnostic Laboratory	L	ast name, First name :	
5000 Belanger Street, Room C-1760 Montreal, Quebec H1T 1C8 Phone: 514 376-3330 ext. 3712 / Fax: 514 593-2577 Email: Idm@icm-mhi.org		Date of birth: Gender: File Number: RAMQ Number:	Addressograph
Please attach : Consent Form for Genetic Testing F-G-CONS-3860 AND/O Toxicology results and autopsy report for all molecular autopsy	R itopsy requests	Provide at lea	ast two (2) unique identifiers.
A- Sampling/Sample Type			MANDATORY
Date: AAAA MM JJ □ Whole blood - EDTA lavender tube (at least 1 mL) □ Extracted DNA - One tube (minimum 3-5 µg) Set *Avoid liver sample. If the patient has a hematologic malignancy, DNA exponentent of the patient has a hematologic malignancy, DNA exponentent of the patient has a hematologic malignancy. Set Specimen already sent to MDL Set Set	By:	_	For MDL use
Shipping instructions to the above address Whole blood, Tubes are shipped at room temperature, a	ccording to current biomedical	specimen transport standar	ds. Reception of specimens must be within ten
(10) days after collection.	or in a cooler if they have bee	n previously frozen	
B- Reason for this request		n previously nozen.	MANDATORY
Request for cardiovascular genetic analysis		Family number (if	known) :
Adding tests to a request		Deceased patient, date	of death: AAAA - MM - JJ
Specimen banking Priority request:	Pregnancy 🗌 ICD implantati	on 🗌 Surgical decision 🗌	Other (justify request by email to the MDL)
C- Analysis request for specific variant(s)			FAMILY MEMBER onl
			-
Known or suspected familial diagnosis: Clinical Indication (required): Co-segregation study: Predictive testing following generation	d patient	tient	clear phenotype
Known or suspected familial diagnosis: Clinical Indication (required): Co-segregation study: Predictive testing following gene Family variant(s) targeted: Gene	d patient Unaffected pa etic counseling Othe Transcript	tient	clear phenotype ge Protein change
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene	d patient	tient	clear phenotype ge Protein change
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene	d patient Unaffected pa etic counseling Othe Transcript	tient	ge Protein change
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene D- Analysis request for a complete profile (check Panel tost and sequenced genes	d patient Unaffected pa etic counseling Othe	tient Patient with und	clear phenotype ge Protein change
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene D- Analysis request for a complete profile (check Panel test and sequenced genes Idiopathic or genetic/hereditary cardiomyopa Medical genetics consultation is recommended if diagnos conditions except TTR amyloidosis.	d patient Unaffected pa etic counseling Othe Transcript (Panel AND Criteria) : thy (CM) is < 14 years, dysmorphia,	tient Patient with und 	clear phenotype ge Protein change PROBAND onl for test eligibility ent. Specialty clinic opinion is required for al
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene D- Analysis request for a complete profile (check Panel test and sequenced genes Idiopathic or genetic/hereditary cardiomyopa Medical genetics consultation is recommended if diagnos conditions except TTR amyloidosis. Hypertrophic CM	d patient Unaffected pa etic counseling Othe Transcript A Panel AND Criteria) : thy (CM) is < 14 years, dysmorphia,	tient Patient with und Nucleic chang Clinical indications for extracardiac involvement	clear phenotype ge Protein change PROBAND onl for test eligibility ent. Specialty clinic opinion is required for al
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene D- Analysis request for a complete profile (check Panel test and sequenced genes Idiopathic or genetic/hereditary cardiomyopa Medical genetics consultation is recommended if diagnos conditions except TTR amyloidosis. D Hypertrophic CM ACTC1, ACTN2, ALPK3, CACNA1C, CSRP3, DES, FHL1, FHOD3, FLNC, GLA, JPH2, LAMP2, MYBPC3, MYH7, MYL2, MYL3, PLN, PRKAG2, PTPN11, RAF1, RIT1, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTR	d patient ☐ Unaffected pa etic counseling ☐ Othe Transcript < Panel AND Criteria) : <pre></pre>	tient ☐ Patient with und Nucleic chang Clinical indications f or extracardiac involvement ≥ 15 mm, <u>OR</u> nily history, <u>OR</u> (in children) plained by overload condition ed medical genetics or cardio	clear phenotype ge Protein change PROBAND onl For test eligibility ant. Specialty clinic opinion is required for al n ogenetics clinic
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report Gene D- Analysis request for a complete profile (check Panel test and sequenced genes Idiopathic or genetic/hereditary cardiomyopa Medical genetics consultation is recommended if diagnos conditions except TTR amyloidosis. Hypertrophic CM ACTC1, ACTN2, ALPK3, CACNA1C, CSRP3, DES, FHL1, FHOD3, FLNC, GLA, JPH2, LAMP2, MYBPC3, MYH7, MYL2, MYL3, PLN, PRKAG2, PTPN11, RAF1, RIT1, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTR Dilated CM or left ventricular noncompaction	d patient ☐ Unaffected pa etic counseling ☐ Othe Transcript (Panel AND Criteria) : (thy (CM) is < 14 years, dysmorphia, ☐ Left ventricular (LV) wall ☐ LV wall ≥ 13 mm with fai ☐ LV wall ≥ 13 mm with fai ☐ LV wall with Z score > 2 AND ☐ LV thickening not fully ex AND ☐ Evaluation in a specialize	tient ☐ Patient with und 	clear phenotype ge Protein change PROBAND onl PROBAND onl for test eligibility ent. Specialty clinic opinion is required for al n ogenetics clinic
Known or suspected familial diagnosis: Clinical Indication Co-segregation study: Affected (required): Predictive testing following gene Family variant(s) targeted: Gene For variant(s) not reported by our laboratory, attach copy of a family member's report	d patient ☐ Unaffected pa etic counseling ☐ Othe Transcript (Panel AND Criteria) : (Panel AND Criteria) : (CPanel AND Criteria) : (CPanel AND Criteria) : (CPAN) (CM) (S < 14 years, dysmorphia, (CM) (LV wall ≥ 13 mm with famil (LV wall ≥ 13 mm wath famil (LV wall ≥ 13 mm with famil (LV wall ≥ 13 mm wath famil (LV wall	tient ☐ Patient with und Nucleic chang Clinical indications f or extracardiac involveme ≥ 15 mm, <u>OR</u> nily history, <u>OR</u> (in children) plained by overload condition ed medical genetics or cardion stion disorder (bifasicular blo of non-ischemic heart diseat osis and/or ventricular arrhy vasive treatment (defibrillato sis at young age (e.g. < 40 y	clear phenotype ge Protein change ge PROBAND onl for test eligibility ent. Specialty clinic opinion is required for al n ogenetics clinic ck or atrioventricular block) OR ase and/or malignant arrhythmia and/or conductio thmia OR r, mechanical support, heart transplant) OR rears) papentics clinic

Test requisition form - CARDIOVASCULAR GENETICS

Arrhythmogenic right ventricular CM					
ANK2, CDH2, DES, DSC2, DSG2, DSP, FLNC, JUP, LMNA, PKP2, PLN, TMEM43	 Definitive or borderline diagnosis according to TF2010 criteria (Pubmed ID: 20172911) <u>AND</u> No left ventricular involvement (if associated left ventricular involvement, the dilated CMP panel is recommended) 				
	AND Evaluation in a specialized medical genetics or cardiogenetics clinic				
☐ TTR-related cardiac amyloidosis					
TTR	 Positive histological evaluation for amyloidosis and confirmation of TTR subtype <u>OR</u> Positive histological evaluation for amyloidosis and absence of circulating monoclonal protein <u>OR</u> Bone scan (e.g. PYP) positive for cardiac amyloidosis and absence of circulating monoclonal protein 				
Hereditary arrhythmias					
🗆 Andersen-Tawil syndrome					
KCNJ2	 Clinical diagnosis according to the diagnostic criteria (Pubmed ID: 29125635) <u>AND</u> Evaluation in a specialized medical genetics, cardiogenetics or neurogenetics clinic 				
🗆 Brugada syndrome					
SCN5A	 ECG showing a spontaneous type I Brugada pattern <u>OR</u> ECG showing a sodium blocker-induced type I Brugada pattern in a clinical setting suggesting Brugada syndrome <u>AND</u> Evaluation in a specialized medical genetics or cardiogenetics clinic 				
🗆 Long QT syndrome					
CACNA1C, CALM1, CALM2, CALM3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, SCN5A, TECRL, TRDN	 Survivor of cardiac arrest with QT prolongation on resting ECG <u>OR</u> Prolonged QTc (> 480 ms for ♀ and > 460 ms for ♂) <u>OR</u> Borderline QTc (460-480 ms for ♀ and 450-460 ms for ♂) in the presence of syncope <u>AND</u> Abnormal T-wave AND/OR Suspicious family history <u>AND</u> Evaluation in a specialized medical genetice or cardiogonatics elinic 				
Short OT syndrome					
CACNA1C, KCNH2, KCNJ2, KCNQ1, SCN5A, SLC4A3	 □ QTc < 330 ms, OR □ QTc < 360 ms in the presence of clinical suspicion of short QT syndrome based on personal history (cardiac arrest, suspected syncope) or family history <u>AND</u> □ Evaluation in a specialized medical genetics or cardiogenetics clinic 				
Catecholaminergic polymorphic ventricular tachycardia					
CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TECRL, TRDN	 Clinical suspicion of catecholaminergic polymorphic ventricular tachycardia <u>AND</u> Evaluation in a specialized medical genetics or cardiogenetics clinic 				
Familial progressive cardiac conduction defect					
DES, EMD, GLA, GNB5, HCN4, LAMP2, LMNA, NKX2-5, PRKAG2, SCN5A, SGO1, TBX5, TNNI3K, TRPM4, TTR	 Conduction disorder requiring pacemaker implantation <50 years <u>OR</u> Conduction disorder requiring pacemaker implantation <60 years of age in the presence of a family history of conduction disorder, sudden death, or cardiomyopathy. <u>AND</u> Evaluation in a specialized medical genetics or cardiogenetics clinic 				
Unexplained cardiac arrest					
AARS2, ACTC1, ACTN2, ALPK3, ANK2, BAG3, CACNA1C, CALM1, CALM2, CALM3, CASQ2, CDH2, CSRP3, DES, DMD, DOLK, DPP6 (NM_130797.4:c.244-141059C>T), DSC2, DSG2, DSP, EMD, FHL1, FHOD3, FKRP, FKTN, FLNC, GLA, GNB5, HCN4, JPH2, JUP, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LAMP2, LMNA, MYBPC3, MYH7, MYL2, MYL3, NXN, NKX2-5, NRAP, PKP2, PLN, PPA2, PPCS, PPP1R13L, PRKAG2, PTPN11, RAF1, RBM20, RIT1, RYR2, SCN5A, SGO1, SLC4A3, TAFAZZIN, TBX5, TECRL,	 Survivor of cardiac arrest with documented ventricular fibrillation, when the etiology of the cardiac arrest remains unclear after clinical evaluation OR Sudden death that remains unexplained after evaluation by the coroner and/or pathologist including toxicology, autopsy and cardiac autopsy <u>AND</u> 				
TMEM43, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TRDN, TRIM63, TRPM4, TTN, TTR, VCL	Evaluation of the patient or case by a specialized medical genetics or cardiogenetics clinic				

Test requisition form - CARDIOVASCULAR GENETICS

Aortopathies (thoracic aortic aneurysm/dissection)				
Medical genetics advice recommended if diagnosis < 18 years, d	ysmorphia and/or extracardiac damage			
Non-syndromic familial aortic aneurysm				
	Dilation of the thoracic aorta in the absence of sy <u>AND</u> Family history of aortopathy in at least one 1 ^{er} de	ystemic signs egree relative OR Age < 65 years in the absence of risk		
SMAD3, SMAD4, TGFB2, TGFB3, TGFBR1, TGFBR2	factors (hypertension, aortic atherosclerosis, etc.)			
	L Evaluation in a specialized medical genetics or c	ardiogenetics clinic		
Syndromic aortic aneurysm	Aastanathy with non-anacific aundramic aliniaal n	vieture OB		
ACTA2, CBS, COL1A1, COL3A1, COL5A1, COL5A2, EFEMP2, ELN, FBLN5, FBN1, FKBP14, FLNA, LOX, MYH11, MYLK, PLOD1, PRKG1, SKI, SLC2A10, SMAD2, SMAD3, SMAD4, TGFB2, TGFB3, TGFBR1	Aoropany with non-specific syndromic clinical p Presence of clinical signs of connective tissue of syndrome <u>OR Thoracic aortic dissection < 65 years in the abse AND Fvaluation in a specialized medical genetics or c </u>	disease that do not meet the clinical criteria for Marfan ance of atherosclerosis at autopsy		
Classical Ehlers-Danlos syndrome				
	Clinical diagnosis of classic Ehlers-Danlos syndr	ome		
COL1A1, COL5A1, COL5A2	AND Evaluation in a specialized medical genetics or c	ardiogenetics clinic		
Vascular Ehlers-Danlos syndrome				
	Clinical diagnosis of vascular Ehlers-Danlos syne	drome		
COL1A1, COL3A1	AND Evaluation in a specialized medical genetics or c	ardiogenetics clinic		
Loeys-Dietz syndrome				
SMAD2, SMAD3, TGFB2, TGFB3, TGFBR1, TGFBR2	Clinical signs suggestive of Loeys-Dietz syndrom Aortopathy with syndromic clinical picture sugges AND	ne <u>OR</u> sting Loeys-Dietz syndrome		
	Evaluation in a specialized medical genetics or c	cardiogenetics clinic		
Martan syndrome	Clinical diagnosis of Marton syndrome OD			
FBN1	 Clinical diagnosis of Marian syndrome <u>OR</u> Aortopathy with syndromic clinical picture sugges <u>AND</u> 	sting Marfan syndrome		
	Evaluation in a specialized medical genetics or c	ardiogenetics clinic		
Additional gene(s) (valid for a gene present on the requisition for	n only) :			
E- Pedigree (provide family tree and indicate know	wn mutations)	OPTIONAL		
Family tree will be provided as an attachment to this ap Family tree will be provided as an attachment to this ap				
By signing, I confirm that this test is medically indicated for the explained to the patient or patient's representative/legal tur	the stated clinical condition and that the results will the results will the the results will the the source the state of the source	I be used for clinical purposes for the patient. I have nitations, risks and benefits and have satisfactorily		
answered all related questions, as indicated on the consent	form.	···· , · · · · · · · · · · · · · · · ·		
Last name, first name:				
Hospital Center:	Fax:*	^tor sending results		
	Signature:	Date:		
C.c. to referring physician, coroner, genetic counselor, laborate	bry or other :			
Last name, first name:	License Number:			
Hospital Center:	Fax :			
Warning: Any incomplete or non-compliant request may be refused				