

## **Molecular Diagnostic Laboratory**

5000, Belanger Street, C-1760 Montreal (Quebec) H1T 1C8

## Last Name, First Name: Date of Birth: Montreal Heart Institute Sex · Adressograph Record Number: Phone: 514 376-3330 ext. 3712 Fax: 514 593-2577 RAMQ Number (if available): Email: Idm@icm-mhi.org Contact (phone number): Please provide at least two (2) unique identifiers For any molecular autopsy request, you must provide: For any test request, you must provide: ☐ Test requisition form – Familial Dyslipidemia ☐ Test requisition form – Familial Dyslipidemia ☐ Consent form for genetic testing F-G-CONSEN-9297 ☐ Toxicological analysis result and autopsy report A- Sample information REQUIRED Date: Collected by (Initials): Laboratory reference number : For laboratory use Sample type (check): ☐ Lavender tube (EDTA) – One tube (at least 1 mL) ☐ Specimen already sent to MDL $\square$ DNA – One tube (at least 3-5 $\mu$ g): Requirements: 25 µL minimal volume with a 260/280 ratio between 1.8 and 2.2. Following buffers accepted: Tris-EDTA and elution buffer provided in a commercial DNA extraction kit N.B.: DNA samples extracted from formalin fixed and paraffin-embedded tissues (FFPE) are not accepted. In addition, if the patient has a hematologic malignancy, DNA extracted from a nonhematologic source is strongly recommended. Please contact the laboratory as needed. B- Reason for this request (please check all that apply): REQUIRED ☐ Genetic test request (please complete section D or E and F) ☐ Specimen banking Patient ethnicity (ex : french canadian) : ☐ Additionnal testing Family Number (if known): (please complete section D or E and F) Deceased patient, Date of death: C- Patient's phenotype REQUIRED Familial history: Clinical data: Pharmacotherapy: LDL-C level before treatment (mmol/L): LDL-C level after treatment initiation (mmol/L): Tg level before treatment (mmol/L): Tg level after treatment initiation (mmol/L): The HF Dutch Lipid Clinic Network Diagnostic Criteria grid must be completed (page 3). D- Dyslipidemia Panel Test (Please check all that apply): REQUIRED FOR PROBAND **Sequenced Genes** Analysis includes detection of single nucleotide genetic variations (SNV), small genetic variations (InDel) and copy number **Panel Test** variations (CNV), as well as certain intronic variants associated with hereditary cardiovascular diseases A list of intronic variants is available at https://www.icm-mhi.org/en/health-care-and-services/clinics-andservices/cardiovascular-genetics-center. Familial dyslipidemia ☐ Familial Hypercholesterolemia APOB, LDLR, LDLRAP1, PCSK9 ☐ Familial hyperalphalipoproteinemia ☐ Familial hyperchylomicronemia APOA5, APOC2, GPIHBP1, LMF1, LPL ☐ Sitosterolemia ABCG5, ABCG8 Additional gene(s) (only for gene present on this request):

Test requisition form – Familial Dyslipidemia

## Test requisition form – Familial Dyslipidemia

E- Targeted variant testing only :			REC	QUIRED FOR FAMILY MEMBER
Known or suspected diagnosis :				
Specific variant(s):	Gene	Transcript	Nucleic change	Protein change
For variant(s) not reported by our laboratory, please attach a copy of a family member's report.				
F- Health Care Professional Informatio	n:			<u>REQUIRED</u>
☐ I confirm that this test is medically indicate explained to the patient or his / her represent satisfactorily answered all related questions.				
Last Name, First Name :		License Number :		
Full addroce :			Phone ·	
		_		
		_	Date :	
			Signature :	
c.c. additional reporting provider, coroner, gene Last Name, First Name :	tic counselor or other :	Licon	se Number :	
Full address :		_ Licen	Phone ·	
		_	Fax :	
		_		ORTIONAL .
G- Laboratory Contact Information :				<u>OPTIONAL</u>
Institution :		_ Con		
Full Address :		_	Phone : Fax :	
		_	1 dx .	
	y incomplete or non-cor	npliant analysis	request will be refu	sed
H- Shipping instruction :				
Specimen Dispatching :				anda fan bianaadiaal
	are sent at room temperatu ens should be received at			
DNA: DNA samples can be se	ent at room temperature or	in an icebox if sam	ples were previously fr	ozen.
Shipping Address :				
Molecular Diagnostic Laboratory (C-17 Montreal Heart Institute 5000, Belanger Street Montreal (Quebec) H1T 1C8  The HF Dutch Lipid Clinic		ic Criteria g	rid must be con	npleted (page 3).

## Test requisition form – Familial Dyslipidemia

Dutch Lipid Clinic Network diagnostic criteria for familial hypercholesterolemia  Please circle the criteria that apply:				
riteria	Points			
Family History				
<ul> <li>i. First-degree relative with premature coronary heart disease (M &lt; 55 years; F &lt; 60 years)         OR         ii. First-degree relative with known LDL-C level &gt; 95th percentile</li> </ul>	1			
iii. First-degree relative with tendinous xanthoma and / or arcus cornealis  OR	2			
iv. Children aged < 18 y/o with LDL-C level > 95th percentile				
Clinical History				
i. Patient with premature coronary heart disease (M < 55 years; F < 60 years)	2			
ii. Patient with premature cerebral or peripheral vascular disease	1			
Physical Examination				
i. Tendinous xanthoma	6			
ii. Arcus cornealis < 45 years	4			
LDL Cholesterol Level				
i. LDL-C level > 8,5 mmol/L	8			
ii. LDL-C level 6,5 - 8,4 mmol/L	5			
iii. LDL-C level 5,0 - 6,4 mmol/L	3			
iv. LDL-C level 4,0 - 4,9 mmol/L	1			
TOTAL SCORE:				
Diagnosis (based on the total number of points obtained) :	•			
Definite familial hypercholesterolemia: > 8 points				
Probable familial hypercholesterolemia : 6-8 points				
Possible familial hypercholesterolemia : 3-5 points				
Unlikely familial hypercholesterolemia : 0-2 points				
INDICATION FOR GENETIC TESTING :				
Heterozygote FH				
Patient with a score > 5 points				
Patient with xanthoma, high cholesterol and family history of coronary heart disease				
First-, second-, and third-degree relative of a proband known with a causative variant in one of the genes asso (Section E-Targeted variant testing only)	ociated with familial hypercholesterolemia			
Homozygote FH				

Patient in whom both parents are known with a causative variant in one of the genes associated with familial hypercholesterolemia

Untreated patient with LDL-C level > 12,0 mmol/L and treated patient with LDL-C level > 8,0 mmol/L

Cutaneous or tendonous xanthoma < 10 years

Both parents with elevated LDL-C levels reflecting heterozygous  $\mathsf{FH}$ 

<u>OR</u>

<u>AND</u>

<u>OR</u>