



## FH (familial hypercholesterolaemia) GENETICS REQUEST FORM

### Patient Information or Addressograph

First name: \_\_\_\_\_ Surname: \_\_\_\_\_

Patient address: \_\_\_\_\_  
 \_\_\_\_\_

DOB: \_\_\_\_\_ Sex: \_\_\_\_\_

Ward/Clinic: \_\_\_\_\_ Hospital No. \_\_\_\_\_

**\*2 whole blood EDTA samples required\***

**SJH Laboratory number**

### Referral Information:

Consultant's name: \_\_\_\_\_

Address of requesting consultant: \_\_\_\_\_ Hospital: \_\_\_\_\_

Name of referrer \_\_\_\_\_ Title/position: \_\_\_\_\_ Ext/Bleep: \_\_\_\_\_

### Clinical Information:

Pre-treatment Total cholesterol: \_\_\_\_\_ mmol/L    Pre-treatment LDL cholesterol: \_\_\_\_\_ mmol/L

Pre-treatment Triglyceride: \_\_\_\_\_ mmol/L    Lipoprotein (a) if known: \_\_\_\_\_ nmol/L

Is patient on Lipid lowering treatment? (Y/N) \_\_\_\_\_ If yes state name of lipid medication, dosage and duration of treatment: \_\_\_\_\_

Current Total cholesterol: \_\_\_\_\_ mmol/L    Current LDL cholesterol: \_\_\_\_\_ mmol/L

Current Triglyceride: \_\_\_\_\_ mmol/L

Does the patient have xanthomata? (Y/N) \_\_\_\_\_ If yes indicate location? \_\_\_\_\_

Ethnic origin: \_\_\_\_\_

Relative with known FH-causing variant? (Y/N) \_\_\_\_\_ If yes, provide known variant detail: \_\_\_\_\_

### Informed Consent Information: *Please retain original consent form in patient file.*

Patient has signed consent form? (Y/N) \_\_\_\_\_ Patient signature: \_\_\_\_\_

### Specimen Information

Date Taken: \_\_\_\_\_ (for internal use only: Date received: \_\_\_\_\_)

### Minimum criteria required for genetic testing:

Please revert page and **FILL IN** Dutch Lipid Clinic Network (DLCN) criteria. Please transfer scores below:

DLCN criteria score \_\_\_\_\_

***Please note genetic analysis will be performed if DLCN score is  $\geq 6$  (Probable/Definite FH).***

Requesting Clinician Signature: \_\_\_\_\_ MCRN no: \_\_\_\_\_

Date: \_\_\_\_\_

***Please note that samples arriving without confirmed informed consent by signature and completed questionnaire will not be processed.***

**P.T.O**

**Appendix:**

**Dutch Lipid Clinic Network Criteria for diagnosis of Familial Hypercholesterolemia in Adults**

Criteria	Please circle
	Score
<b>Family history</b>	
First-degree relative with known premature coronary and/or vascular disease (men <55 years, women <60 years) <b>or</b> First-degree relative with known LDL-cholesterol above the 95th percentile for age and sex	1
First-degree relative with tendinous xanthomata and/or arcus cornealis <b>or</b> Children aged less than 18 years with LDL-cholesterol above the 95th percentile for age and sex	2
<b>Clinical history</b>	
Patient with premature coronary artery disease (men <55 years, women <60 years)	2
Patient with premature cerebral or peripheral vascular disease (men <55 years, women <60 years)	1
<b>Physical examination*</b>	
Tendinous xanthomata	6
Arcus cornealis prior to age 45 years	4
<b>LDL-cholesterol (mmol/L)</b>	
LDL-C $\geq 8.5$	8
LDL-C 6.5–8.4	5
LDL-C 5.0–6.4	3
LDL-C 4.0–4.9	1
DNA analysis: functional mutation in the <i>LDLR</i> , <i>APOB</i> or <i>PCSK9</i> gene	8
<b>*Exclusive of each other (i.e. maximum 6 points if both clinical signs are present)</b>	
<b>PATIENT TOTAL SCORE:</b>	
<b>STRATIFICATION</b>	<b>Total score</b>
Definite FH	>8
Probable FH	6–8
Possible FH	3–5
Unlikely FH	<3

**P.T.O**

# Consent form for Diagnostic Genetic Testing on patient

MOLECULAR DIAGNOSTICS,  
BIOCHEMISTRY DEPARTMENT, ST JAMES'S HOSPITAL, DUBLIN  
Tel: +353 1 4162935

Patient name: \_\_\_\_\_

DOB: \_\_\_\_\_

Address: \_\_\_\_\_

Hospital: \_\_\_\_\_

Hospital registration number: \_\_\_\_\_

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1. I, \_\_\_\_\_, request that an attempt be made using genetic material (either DNA, RNA or both) to assess the probability that: I / my child (DELETE WHERE NOT APPLICABLE) might have inherited a genetic predisposition for the medical condition (“disorder”) **Familial Hypercholesterolaemia (FH)**. This includes testing for well documented disease-causing mutations in the gene(s) *LDLR*, *APOB* and *PCSK9*, and also an LDL-Cholesterol Genetic Risk Score (GRS), such variants being associated with an increased likelihood of an FH-like Clinical Phenotype and/or polygenic hypercholesterolaemia.
2. In wishing to proceed with this test I have been fully informed about the nature of the genetic tests involved. I understand that the test will show **ONE** of the following:
  - a. **That I have a genetic variant predisposing to Familial Hypercholesterolaemia and that other family members may therefore be at risk of developing this condition**
  - b. **That I do not have genetic evidence of Familial Hypercholesterolaemia**
  - c. **That I carry a strong genetic susceptibility for developing a polygenic hypercholesterolaemia which can produce an FH-like clinical phenotype**
  - d. **That the test results are indeterminate or difficult to interpret**

Signature of patient/parent/guardian: \_\_\_\_\_

Date: \_\_\_\_\_

## For Medical Staff:

I have explained in detail to the above patient the principles and implications of genetic testing for the disorder. Given the clinical information available at this juncture I believe this test to be in the best interests of the patient.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name (Printed): \_\_\_\_\_

Medical Council registration number: \_\_\_\_\_