



FH (familial hypercholesterolemia) 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

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:

Specimen Type: (Whole Blood, Buccal Swab, DNA) _____ Date Taken: _____

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 ≥ 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
Family history	
First-degree relative with known premature coronary and/or vascular disease (men <55 years, women <60 years) or 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 or Children aged less than 18 years with LDL-cholesterol above the 95th percentile for age and sex	2
Clinical history	
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
Physical examination*	
Tendinous xanthomata	6
Arcus cornealis prior to age 45 years	4
LDL-cholesterol (mmol/L)	
LDL-C ≥ 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
*Exclusive of each other (i.e. maximum 6 points if both clinical signs are present)	
PATIENT TOTAL SCORE:	
STRATIFICATION	
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: _____

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: _____