Paediatric Laboratory Medicine (CLIA # 99D1014032)

555 University Avenue Room 3416, Roy C. Hill Wing Toronto, ON, M5G 1X8, Canada

Tel: 416-813-7200 x1 Fax: 416-813-7732

Genome Diagnostics

Genome Diagnostics	Provincial Health Card #: Version:
www.sickkids.ca/genome-diagnostics	Issuing Province:
Referring Physician:	Test request (write below and/ or check box(es) on pages 2 and 3):
Name:	
Address:	Reason for Testing:
	Diagnosis Carrier testing
Phone Fax	Familial mutation/variant analysis Prenatal testing
Email address:	Bank DNA only
	Other (Specify):
Signature (required)	If expedited testing is requested, please indicate reason
	Pregnancy (Gestational age (weeks):)
Copy Report To:	Other (Specify:)
Name:	Familial Mutation/Variant Analysis:
Address:	For prenatal testing and cases where a familial mutation or variant is known
	please complete below and attach a copy of the proband's report:
	Gene:
Phone Fax	Mutation/variant(s):
	SickKids Laboratory number:
Sample Information:	SickKids Pediaree number:
Date obtained (YYYY-MM-DD):	Name of prohand:
Your reterring laboratory reterence #:	
□ Blood in EDTA (purple top tube): min. 4 mL (0.5-3 mL for newborns)	
Direct CVS: min. 10 mg direct villi	Clinical Diagnostics and Family History:
Cultured villi: 1-2 confluent T25 flasks	Please draw or attach a pedigree and provide any relevant information
Cultured amniocytes: 1-2 confluent T25 flasks	below, including clinical and family history details, as this is important for
Tissue (Source:)	accurate interpretation of results.
Other (Specify:)	
Closed consent:	
ordering physician that all DNA testing has been completed)	

Birthdate (YYYY-MM-DD):

Parent's Name:

Address:

Telephone #: For Canada Only

Gender: 🗌 Male 🗌 Female

Laboratory Use:

Comments:

Laboratory Use.				
Date (YYYY-MM-DD) Time Received:				
Lab #:				

1

Ordering Checklist:

Ethnicity:

Specimen tube labeled with at least two identifiers
 Completed test requisition form (pages 1-5)
 Clinical information must be provided on pages 4-5 for all
 Next-Generation Sequencing tests. Testing will not proceed
 until these are provided.
 Completed billing form (page 6, if applicable)

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Pedigree No. / Patient No. _

Specimen type, amt & # of tubes:

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 Paediatric
 Fax: 416-813-7732

 Laboratory Medicine
 (CLIA # 99D1014032)

Patient Name:

Birthdate (YYYY-MM-DD):

Gender: 🗌 Male 🗌 Female

Genome Diagnostics	
LIST OF TESTS AVA For prenatal testing and cases where a familial mutation	NLABLE BY DISEASE n/variant is known, please include information on page 1.
22q11 Deletion Syndrome 22q11 deletion/duplication analysis Angelman Syndrome Wethylation and deletion/duplication analysis DPD15 analysis (please submit parental samples) Arrhythmogenic Right Ventricular Cardiomyopathy Sager sequence analysis panel: DSC2, DSC2, DSC2, DSCP, PKP2, TMEM43 Ashkenazi Jewish Carrier Screening Recurrent mutation analysis (7 diseases): Bloom syndrome, Canavan disease, Familial Dysautonomia, Fancian Coru C, Mucolipidosis Type IV, Niemann-Pick disease, Tay-Sachs disease Atypical Hemolytic Urenic Syndrome / Membranoproliferative Glomerulonephritis Sager sequence analysis panel: APLN, C3, CD46, CFB, CFH, CFHR5, CFI, THBD Attoinflammatory Disease * Clinical information must be provided on pages 4 and 5 Recurrent Fever Syndrome (RFS) NGS panel Hemophagocytic Lymphohisticocytosis (HLH) NGS panel Deletion/duplication analysis Becker Muscular Dystrophy DMD Sanger sequence analysis Becker Muscular Dystrophy DMD Sanger sequence analysis C1 and IC2 methylation and 11p15 deletion/duplication analysis Benchio-Ot-Canel Syndrome C1 And IC2 methylation analysis Caffey Di	Cancer Related Tests Continued BRAF testing ** BRAF digital PCR for p.V600E (c.1799T>A) Charge Syndrome C/HD7 Sanger sequence analysis CHD7 deletion/duplication analysis SH3BP2 recurrent mutation analysis ChB7 deletion/duplication analysis ChB7 deletion/duplication analysis ChB7 deletion/duplication analysis Congenital Muscular Dystrophies Sanger sequence analysis panel: FCMD, FKRP, POMGnT1, POMT1, POMT2 Connective Tissue Disease * Clinical information must be provided on pages 4 and 5 If more than one panel is requested, rationale must be provided on pages 5. Delton/duplication analysis Cranicsynostosis Deletion/duplication analysis Cranicsynostosis ChFR2, FGFR3 recurrent mutation analysis) ChFGR2, FGFR3 recurrent mutation analysis ChFGR2, FGFR3 recurrent mutation analysis ChFGR2, FGFR3 and TWIST deletion/duplication analysis ChFGR3 ChFGR4 Cranicsynostosis CFFR Recurrent mutation analysis ChFGR3 Cranicsyndrome (FGFR4, FGFR3 recurrent mutation analysis) ChFGR3 <

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 Spitzal For
 555 University Avenue Room 3416, Roy C. Hill Wing Toronto, ON, M5G 1X8, Canada

 CHILDREN
 Tel: 416-813-7720 x1 Fax: 416-813-7732

 Paediatric
 Fax: 416-813-7732

 Laboratory Medicine
 (CLLA # 99D1014032)

Patient Name:

Birthdate (YYYY-MM-DD):

Gender: 🗌 Male 🗌 Female

Genome Diagnostics

LIST OF TESTS AVAILABLE BY DISEASE For prenatal testing and cases where a familial mutation/variant is known, please include information on page 1.			
Fragile X E Syndrome *** <i>FMR2</i> trinucleotide repeat analysis	Maternal Cell Contamination Studies (please send maternal sample)		
(See testing requirements) Gaucher Disease	Neurofibromatosis type 1/Legius syndrome * Clinical information must be provided on pages 4 and 5		
GBA recurrent mutation analysis	<i>NF1</i> sequence analysis <i>NF1</i> deletion/duplication analysis		
GJB6 deletion/duplication analysis	SPRED1 sequence analysis SPRED1 deletion/duplication analysis		
Hearing Loss: Non-Syndromic, X-Linked POU3F4 Sanger sequence analysis POU3F4 deletion/duplication analysis	CLN1, CLN2 and CLN3 recurrent mutation analysis Sanger sequence analysis panel: CLN1, CLN2, CLN3, CLN5, CLN6, CLN7, CLN8, CLN10		
Hearing Loss: Aminoglycoside-induced, Mitochondrial MTRNR1, MTTS1 recurrent mutation analysis	Noonan Syndrome and RASopathies * Clinical information must be provided on pages 4 and 5		
Hearing Loss: Pendred Syndrome SLC26A4 Sanger sequence analysis	Noonan Syndrome and RASopathies panel Deletion/duplication analysis for SPRED1 only		
SLC2044 deterion/outplication analysis Hereditary Hearing Loss * Clinical information must be provided on pages 4 and 5	Prader-Willi Syndrome Methylation and deletion/duplication analysis UBDF5 analysis (dease submit parents) samples)		
When the Common and Non-syndromic Hearing Loss NGS Panel is requested, testing will begin with GJB2 and GJB6 testing. If negative, reflex testing to NGS testing will be initiated	Russell-Silver Syndrome IC1 methylation and 11p15 deletion/duplication analysis		
Common and Non-syndromic Hearing Loss NGS panel Usher Syndrome NGS panel Sticker Swordmen NGS energy	UPD7 analysis (please submit parental samples) Shwachman-Diamond Syndrome		
Alport Syndrome, Norrie Syndrome, Treacher Collins Syndrome, Waardenburg Syndrome NGS panel	SBDS Sanger sequence analysis (exon 2 only) Simpson-Golabi-Behmel Syndrome		
Deletion/duplication analysis Hereditary Hemorrhagic Telangiectasia	GPC3 Sanger sequence analysis GPC3 and GPC4 deletion/duplication analysis		
ACVRL1 Sanger sequence analysis ENG Sanger sequence analysis	Skeletal Dysplasia		
ACVRL1 and ENG deletion/duplication analysis SMAD4 Sanger sequence analysis	Actionoropiasia (FGFR3 recurrent mutation analysis) Hypochondroplasia (FGFR3 recurrent mutation analysis) Thanatophoric Dysplasia (FGFR3 recurrent mutation analysis)		
Clinical information must be provided on pages 4 and 5	Spinal and Bulbar Muscular Atrophy		
Autosomal Becessive HSP NGS panel X-Linked HSP NGS panel X-Linked HSP NGS panel	Spinal Muscular Atrophy		
Deletion/duplication analysis	SMN1 and SMN2 deletion/duplication analysis		
☐ IDS Sanger sequence analysis ☐ IDS deletion/duplication analysis	MYH8 Sanger sequence analysis		
DS mRNA analysis (please contact the laboratory)	X-Inactivation Analysis		
Tissue matching Zygosity studies	U otner:		
Next-Generation Sequencing (NGS) testing will only be initiated if the clinical information sections, located on pages 4 and 5 of the requisition form, are completed. For more information on our Next-Generation Sequencing (NGS) panels, including the list of genes tested, please visit our website: www.sickkids.ccgeneme-diagnostics	 ** Testing for research/investigational purposes only *** For information on the testing requirement for Fragile X E, please visit the Specimen Requirements section for Fragile X E Syndrome on our website: www.cikkids.cagenome.diagnostics/Fragile X E 		

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Birthdate (YYYY-MM-DD):

Gender: 🗌 Male 🗌 Female

Clincial Information (Required)

DISEASE SPECIFIC FEATURES				
Autoinflammatory Disorders (RFS/HLH)	Hearing Loss	Hereditary Spastic Paraplegia (HSP)	Neurofibromatosis type 1 (NF1) / Legius Syndrome	
Abnormal inflammatory response Fevers Arthritis Pulmonary complications Gastrointestinal irritation Hepatosplenomegaly Lymphadenopathy Hemophagocytosis Oral ucers Rash, specify: Ocular inflammation specify: Edema (periorbital, optic disk) Vision loss Other:	Genorineural hearing loss Conductive hearing loss Mixed hearing loss Mixed hearing loss Mixed hearing loss Mixed hearing loss Gitateral Syndromic Syndromic Syndromic Aon-syndromi Ear anomalies Fenal anomalies White forelock Cardiac anomalies Hirschsprung disease Other:	Cognitive impairment Cognitive impairment Ataxia Spasticity Hyperreflexia Seizures Hyperronia Hypotonia Cystonia Dysarthria Extensor plantar reflex Other: The following investigations are required before molecular testing of HSP is undertaken: MRI – Brain and spinal cord Slochemical testing - Vitamin B12, vitamin E1, very long chain fatty acids, lysosonal work-up, plasma amino acids and serum lipoprotein analysis (as appropriate)	The patient meets the NIH criteria for a clinical diagnosis of NF1 (≥2 of the clinical factures below). Café-au-lait macules ≥ 6 CALS (#:) Neurofibromas, ≥ 2 or ≥ 1 Plexiform Preckling, axillary or inguinal Optic glioma ≥2 Lisch nodules (iris hamartomas) Soseous lesion (type:) First degree relative diagnosed with NF1 by above criteria Other: The patient does not meet the NIH diagnostic criteria for NF1. Rationale for testing must be provided on page 5.	
Connective Tissue Disorders (CTD)	Ostassesia Imperfecto (Cl)		Noonan Syndrome and RASopathies	
Ehlers Danlos Syndrome (EDS) Indicate the suspected clinical diagnosis in the patient: Classic Vascular Kyphoscoliotic Other: Note: Genetic testing is not offered for joint hypermobility alone. It testing is requested for joint hypermobility, please provider attonale on page 5. Check applicable CTD features below. Osteopetrosis and Disorders of Increased Bone Density Check applicable CTD features below. CTD Related Clinical Features: Joint hypermobility: Beighton score:	Osteogenesis Imperfecta (OI) If the patient does not present with o for testing must be provided on page Fetal findings on anatomy ultrasoun Fractures with minimal or no trauma known disorders of bone metabolisr Vertebral fractures Dentinogenesis imperfecta Low ALP for age/gender (ALPL anal Check applicable CTD features below Bone Involvement Check applicable CTD features below Easy bruising Myopia	ne of the test indications below, rationale 5. d consistent with OI. in the absence of other ysis only will be performed) v. v. Recurrent pneumothoraces oint subluxations/dislocations	Increased nuclear transactency Developmental delay Characteristic facies Broad or webbed neck Heart defect (specify:) Hypertrophic cardiomyopathy Short stature (%ile:) Peclus deformity Lymphatic dysplasias Characteristic hematological abnormality (specify:) Other RASopathy features: (specify:) For postnatal patients: The patient must present with ≥2 of the above features for molecular testing to be undertaken.	
 Arterial aneurysms, dissection or rupture 	Lens dislocation Blue/gray sclerae	Fractures Bone deformity		
Intestinal rupture Molluscoid psoudotumors	Thumb or wrist sign	Wormian bones		
Subcutaneous spheroids		Diaphyseal sclerosis		
Loose/stretchable skin Smooth/velvety skin	Marfanoid habitus Short stature	Hearing loss Osteosclerosis		
Widened atrophic scars	Shortened long bones	Other:		
Please draw or attach a pedigree and pro	FAMIL pyide any relevant information below includir	c clinical and family history details, as this is imp	portant for accurate interpretation of results	
		5 · · · · · · · · · · · · · · · · · · ·		
Ethnicity:				
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 Paediatric
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 Laboratory Medicine
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Birthdate (YYYY-MM-DD):

ADDITIONAL RELEVANT CLINICAL INFORMATION

Gender: 🗌 Male 🗌 Female

Genome Diagnostics

Clincial Information (Required)

Previous Genetic Testing

🗌 No

Yes – Test Results



GENERAL CLINICAL FEATURES					
Perinatal history Premature birh UUGR Oligohydramnios Polyhydramnios Other:	Craniofacial/Ophthalmalogic Abnormal face shape Blindness Cataracts Coloboma Optic atrophy Coloboma Optic atrophy Optinalmoptegia Ptosis Retinitis pigmentosa Oral cieft Other: Brain malformations/ abnormality of the basal ganglia Agenesis of the corpus callosum Brain atrophy Cortical dysplasia Heterotopia Heterotopia Hotoprosencephaly Heterotopia Hotoprosencephaly Hotorcophalus Usencephaly Deriventicular leukomalacia Other: Cardiac/congenital heart malformations ASD VSD Coractation of aorta Hytopiastic left heart Heterotopy of Fallot Cardiomy of Fallot Cardiomy of Fallot Cardiomy of Fallot Cortex	Castroshies/omphacele Gastroshies/omphacele Gastroshies/omphacele Gastroshies/omphacele Hepatic failure Chronic intestinal pseudo-obstruction Hirschsprung disease Recurrent vomiting Chronic diarrhea Constipation Other: Castiguous genitalia Cryptorchidism Hypospadias Hydospadias Hydospadias Hydospadias Hydospatianel tubulopathy Other: Endocrine Diabetes mellitus Type 1 Diabetes mellitus Type 2 Hypoparathyroidism Hyposparathyroidism Hother: Castiguous genitalia Construent of the factor of	Neurological/Muscular Ataxia Hypotonia Dystonia Spasicity Exercise intolerance/ easy fatigue Headache/migraine Muscle weakness Stroke/stroke-like episodes Other: Stroke/stroke-like episodes Other: Sclatal/Limb abnormalities Contractures Club foot Polydactyly Shormality of the hair pattern, quantity Abnormal nail growth Abnormal pigmentation Cafe a-u-lait macules Neurofibromas Bistering Istering Istering		

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Paediatric

Genome Diagnostics

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Birthdate (YYYY-MM-DD): Gender: 🗌 Male 🗌 Female

Completion of Billing Form <u>NOT</u> required for patients with an Ontario Health Card Number.

BILLING FORM

At your direction, we will bill the hospital, referring laboratory, referring physician, or a patient/guardian, for the services we render

- · Invoices are sent upon completion of each test/service. Invoices are itemized and include the date of service, patient name, CPT code, test name and charge.
- Contact SickKids' Genome Diagnostics Laboratory at 416-813-7200 x1 with billing inquiries.

How to complete the Billing Form:

Referring Physician completion Send requisition and completion	etes the appropriate secti leted "Billing Form" with	ion below to specimen.	o specify billing i	nethod.	
Section 1: Complete to have the	e Healthcare Provider bi	illed:			
Your Referring Laboratory's Reference	e #:				
Billing address of hospital, referring la Name:	boratory, clinic, referring pl	hysician, or	medical group: (if	different from requisition):	
City:	Prov/State: _				
Postal/Zip Code:	Country: _				
Contact Name:	C	Contact Tele	ohone #:		
Section 2: Complete to have Pa	tient/Guardian billed dir	rectly:			
 Patient/Guardian billing information below must be complete; otherwise, the healthcare provider will be billed. Please advise the patient/guardian to expect a bill from our laboratory. Provide us with patient's valid credit card information. Unfortunately, we cannot accept personal checks. In this case, the patient/guardian is solely responsible for the charges. 				illed.	
Method of Payment (check one):	American Express	s [MasterCard	□ Visa	
Name as it appears on credit card: Credit card # : Expiry date on credit card: Signature of credit card holder (Requi					
Mailing Address of Patient/Guardian (if different from requisition):		Additional Contact Information			
Name:		_ Patient's phone # with area code:			
Address:				- 07 -	
City: Postal/Zip Code:	Apt. #: _ Prov/State: _ Country:		Guardian's phone	e # with area code:	

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