

PreventionGenetics.com

PREVENTIONGENETICS USE ONLY

All testing must be ordered by a qualified Healthcare Provider



A completed online order **OR** paper TRF and labeled specimen is required to initiate testing.

WHOLE EXOME SEQUENCING PGxome® TEST REQUISITION

ORDERING Patient and comparator (if provided) specific CHECKLIST Healthcare Provider Statement (required for specimens collected in NY)	cimens	records and		ry (i.e. clinic	notes, prid	and/or relevant medical or genetic testing, pedigree) I PGxome)
PERSON COMPLETING FORM	CONTACT (DIREC	T PHONE OR EM/	AIL)		DAT	TE OF REQUEST (MM/DD/YYYY)
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· ·	BIOLOGICAL SEX	emale \square Ot	her, specify karyotyp			
REASON FOR TEST Diagnosis / Affected Presymptomatic / At Risk HAS PATIENT BEEN TESTED PREVIOUSLY AT PreventionGenetics? No Yes, PG ID#	Carrier Testing / L	Unaffected ON I last 6 weeks, ir	ONGOING PREGN NO YES	ANCY For pres	BONE MA	orenatal specimen from an ongoing lete the Prenatal Test Requisition Form. IRROW TRANSPLANT Yes, include date DD/YYYY)
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ICD-10 CODES (REQUIRED FOR INSURANCE BILLING) 1 PRIMARY	2_			3		
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	e, Source cted DNA, Source ₋ r		SPECIMEN COLLE (MM/DD/YYYY) If no collection date i date of receipt will be		Inclu Heal State appr	SPECIMEN COLLECTED IN NEW YORK STATE sting the New York State Genetic Testing thcare Provider Statement and New York is Non-Permitted Laboratory Test Request roval letter if test is not NY state approved. a list of NY state approved.
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	HENT IES	I SELECT	ION			
STANDARD DIAGNOSTIC PGxome	SECONDARY (ADDITIONAL) FIND	INGS		SPE	MMENTS OR ECIAL INSTRUCTIONS:
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PreventionGenetics LLC, a wholly owned subsidiary of Exact Sciences Corporation.

>> PAGE 1 of 5



Test information is available on our website: **PreventionGenetics.com**

PREVENTIONGENETICS USE ONLY

	PATIENT
LAST NAME	
FIRST NAME	MI

PROVIDER / LABORATORY CONTACT AND REPORTING

Our preferred method of report transmission is uploading to our secure web portal, myPrevent.

Please provide an email address, when possible. If you have additional specific reporting requests, indicate them BELOW

Please provide an		f you have additional specific rep	orting requests, inc	licate them BELOW
	PRO	VIDER INFORMATION		
INSTITUTION				
ADDRESS		CITY	STATE	ZIP
REQUESTING PHYSICIAN (First, Last, Degree)		REQUESTING GENETIC COUNS	ELOR OR ALLIED PROVIDER	(First, Last, Degree)
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EMAIL ADDRESS (For repor	t access via myPrevent)	EMAIL ADDRESS (For report ac	cess via myPrevent)	
PHONE NUMBER	NPI# (US only)	PHONE NUMBER	NPI# (US only)	
IF YOU REQUIRE REPORTS 1	O BE TRANSMITTED VIA ANOTHER SECURE	METHOD, SPECIFY HERE.		
As the ordering	Healthcare Drovider I certify that	t: (1) I have obtained the patient's in	formed consent and	family member's
https://assets.pre	ventiongenetics.com/documents/p	respects, with PreventionGenetics' atient-informed-consent.pdf), which I v t and their family member (as applica	will maintain on file a	nd make available
and understand	the risks, benefits, and limitations o	f this genetic testing and the implicationsent for PreventionGenetics to use ar	ons of the results; and	(3) I have received
	bed in the consent form.	onsention Frevention Genetics to use al	ia disclose Il Il Offi Id II o	n, test results, and
	SFN	ID OUT LABORATORY		
		PLETE ONLY IF REPORT IS NEEDED		
INSTITUTION / CONTACT				
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		5	3.6.2	
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IF YOU REQUIRE REPORTS	O BE TRANSMITTED VIA ANOTHER SECURE	METHOD, SPECIFY HERE.	1	
ADDITIONAL ACCESS TO RE	PORTS List additional Healthcare Providers an	ad their emails to allow access to reports		
	_ IN/	STITUTION BULLING		
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Send invoice to th		ase provide PO number below if app		
BILLING INSTITUTION			PO NUMBER	
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Test information is available on our website: **PreventionGenetics.com**

PREVENTIONGENETICS USE ONLY	

	PATIENT	
LAST NAME		
FIRST NAME		MI
TIKST NAME		IVII

COMPLETE THIS FORM FOR PATIENT PAY AND/OR INSURANCE BILLING

PATIENT TESTING WILL PROCEED WHEN ALL BILLING INFORMATION HAS BEEN RECEIVED.

TY'S NAME (MUST BE 18 YEARS OR OLDER)	MUST BE FILLED OUT COMPLETELY	PHONE NUMBER	
	CITY	STATE	ZIP
		_	
SIGNATURE REQUI	RED BELOW TO PROCEED WITH TESTING.	•	
Ithorize PreventionGenetics to release information recults, to my health plan / insurance carrier and its Aut d. I understand my Health Plan / Insurance / Medicare mits, benefit exclusions, coverage limits, lack of author co-payments, and policy deductibles except where	eived including, without limitation, medical information, v horized Representatives. I further authorize insurance pay / Medicaid carrier may not approve and reimburse my me ization, medical necessity or otherwise. I understand I am my liability is limited by contract or State and Federal law. I	which includes laborator ments directly to Previdical genetic services i financially responsible agree to help Preventic	ry test results, such as entionGenetics for the n full due to usual and le for fees not paid in onGenetics resolve any
PATIENT / RESPONSIBLE PARTY SIGNATURE	PRINTED NAME OF RESPONSIBLE PARTY	DATE	
CRE	DIT CARD PAYMENT		
MPT PAY (excludes insurance billing)			
·	s. The 10% Patient Prompt Pay discount will apply.		
	essed. The 10% Patient Prompt Pay discount WILL NOT app	oly.	
FORMATION			
ER (VISA, SISCOVER, OR MASTERCARS ONE)		EXPIRATION DATE	3-DIGIT SECURITY CODE
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ss control of the same of the			
CREDIT CARD HOLDERS SIGNATURE		DATE	
INSUPANCE IN	FORMATION - IF APPLICABLE	F	
TRICARE include signed Tricare waiver	MEDICARE include signed ABN form		reventionGenetics.com network Medicaid plans.
ME	DATE OF BIRTH (MM/DD/YYYY)	RELATIONSHIP TO P	ATIENT
E COMPANY NAME (REQUIRED)		PHONE NUMBER	
		PHONE NUMBER	
E COMPANY NAME (REQUIRED) GROUP #	AUTHORIZATION #		ust be listed as servicing provider
GROUP#			ust be listed as servicing providel
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GROUP # CNCE	ion.	ration, PreventionGenetics m	ust be listed as servicing provide
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GROUP # LL PROCEED UNLESS: are working on a required Pre-Authorizate coverage is available. We will work with PROVIDE YOUR PREFERENCES BELOW:	ion. you or your patient to determine payment o	ration, PreventionGenetics m	ust be listed as servicing provide
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Test information is available on our website:

PreventionGenetics.com



All testing must be ordered by a qualified Healthcare Provider

THIS FORM MUST ACCOMPANY ALL SPECIMENS

PGxome® Whole Exome Sequencing

HEALTHCARE PROVIDERS STATEMENT

This statement is required for patient specimens collected in NY and recommended for others, and applies to Whole Exome Sequencing.

	PATIENT INFORMATION			
LAST (FAMILY) NAME	FIRST NAME		MI	DATE OF BIRTH (MM/DD/YYYY)
	FAMILY MEMBERS			
lf a Family (duo, trio, etc.) is being tested, please ¡	provide family member informa	tion:		
FAMILY MEMBER'S NAME				RELATIONSHIP
FAMILY MEMBER'S NAME				RELATIONSHIP
FAMILY MEMBER'S NAME				RELATIONSHIP
HEALTHCARE PROVIDER SIGNATURE	PRINTED NAME			DATE
Retention of Unused DNA Statement for No PreventionGenetics' general policy is to retain all additional testing in the future and saves conside DNA specimens can also be used for quality conconditions I was tested for, and any related diseases approval by an Institutional Review Board or as oth in order to retain excess DNA beyond 60 days. If particularly be discarded 30 days after testing is completed.	Il excess DNA from patient testing rable phlebotomy and shipping control measures or for research on sor conditions, which may include the permise permitted under applicable.	costs to the pati genetic varian e further testing le law. New Yor	ent and h ts associa of my ret k (NY) law	nealthcare system. Excess ated with the diseases or ained samples, subject to requires patient consent
PreventionGenetics' general policy is to retain all additional testing in the future and saves conside DNA specimens can also be used for quality conconditions I was tested for, and any related diseases approval by an Institutional Review Board or as oth in order to retain excess DNA beyond 60 days. If page	Il excess DNA from patient testing rable phlebotomy and shipping control measures or for research on sor conditions, which may include the permitted under applicabilitient specimen was collected in Notice 1.	costs to the pati genetic varian e further testing ble law. New Yor Y and this state	ent and h ts associa of my ret k (NY) law ment is no	nealthcare system. Excess ated with the diseases or tained samples, subject to requires patient consent ot signed, excess DNA will

The following information should be used as a guide to provide informed consent to the patient and/or patient's family. Testing must be ordered by a qualified Healthcare Provider

PURPOSE

- **Diagnostic PGxome:** The purpose of this test is to find the underlying genetic cause for the patient's health condition using Whole Exome Sequencing (WES).
- Health Screen PGxome: The purpose of this test is to provide pan-ethnic carrier screening using a Whole Exome Sequencing (WES) test. Variants in any gene that relate to an autosomal recessive or X-linked recessive disorder (in females) would be reported (regardless of the incidence of the condition). In addition, patients have the option of also receiving genetic variants that predispose to autosomal or X-linked dominant disorders or X-linked recessive disorders (in males).

ABOUT PGXOME TEST

•This test involves the sequencing of thousands of genes at the same time, whereas many other genetic tests look at only one gene or a small group of genes. The way we perform the exome test is through a procedure called Next Generation Sequencing (NGS). We confirm important results with another type of sequencing called Sanger sequencing. Copy number variants (CNVs), also known as deletions/ duplications, and are detected from NGS data. All reported CNVs are confirmed using another technology such as aCGH, MLPA, or PCR.

- We will need about one teaspoon of blood (3-5 ml of whole blood or DNA extracted from blood) from each individual to perform testing. In rare instances, a second specimen may be requested.
- Results of the test will be presented in an individualized, written report transmitted to the patient's Healthcare Provider(s).
- For additional information about this test, see the Diagnostic PGxome test description on the PreventionGenetics website.

FAMILY TESTING

(Diagnostic PGxome Only)

 Testing of family members is very helpful for interpretation of results. When possible, testing of the patient and two

- other family members (called a trio), preferably biological parents, should be performed. If one or both biological parents are unavailable, sometimes siblings or other close relatives can be tested. Family testing increases the chance of getting a conclusive result.
- It is very important family genetic relationships are correctly stated because issues such as an undisclosed adoption or uncertain paternity can cause confusion. If you are aware of any such issues in the family, they should be discussed confidentially with your Genetic Counselor or Ordering Physician.
- Family member information (i.e. parental genotype information) helps us interpret the patient's results and will be included in the patient's report. All sequence variants reported will include parental status. While large CNVs identified in the proband may include parental inheritance information, confirmation using an additional method will not be performed on parental specimens. If parental status for variants in the patient's report is not desired (for primary and/or secondary findings), please make note of this under "Patient Test Selection".



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THIS FORM MUST ACCOMPANY ALL SPECIMENS

· Family members tested as part of a Family PGxome can request their own full analysis reports for an additional charge. Appropriate separate orders (Pgxome Diagnostic or PG Health Screen) are required.

REPORT INFORMATION

Diagnostic PGxome:

- o Genetic variants are defined as the differences between the patient's DNA and the human reference DNA. Generally only results that may explain the patient's clinical features will be reported.
- o in genes believed to be associated or possibly associated with the patient's clinical features, all Pathogenic, Likely Pathogenic, and Variants of Uncertain Significance (unknown if they cause disease) will be reported.

Health Screen PGxome:

- o Pathogenic and Likely Pathogenic recessive sequence variants (Richards et al. 2015 Genet Med 17:405-424) within genes currently known to be clinically relevant for carrier status in autosomal recessive disorders or X-linked recessive disorders (in females) will be reported. Variants in genes not currently known to be clinically relevant will not be reported.
 o Some individuals may have two Pathogenic or Likely
- Pathogenic genetic variants (compound heterozygous or homozygous) in a gene that causes an autosomal recessive disorder. Even if the patient may not be obviously affected by the disorder, this finding could lead to a diagnosis. If identified this information will be included in the patient's test report as it also indicates a positive carrier status.
- o The patient will very likely have many recessive Variants of Uncertain Significance. These variants will not be included in the report, but the laboratory will retain this data.
- · Other findings (aka "Secondary Findings" see below) may be reported depending on the patient's preferences (see bottom of first page of Test Requisition Form). These Secondary Findings may have an important impact on
- · New research results are continually improving the ability to interpret the WES results. An ordering Healthcare Provider can request a re-interpretation from us.

ISSUING THE REPORT

- Results will be sent directly to the ordering Healthcare Provider(s) and NOT to the patient.
- · Genetic counseling and/or clinical genetics consultation before and after testing is recommended.
- Patients have the right to receive a copy of their test report. They may obtain a copy from their Healthcare Provider(s) or if a signed patient authorization (form available upon request) is received, from PreventionGenetics.

SECONDARY FINDINGS

- · In many patients, WES will reveal one or more additional genetic variants which could be important to the patient's health. These include for example variants predisposing the patient to cancer or heart disease, or variants relevant to reproductive planning. These are termed secondary findings. The patient may or may not wish to be informed of secondary findings.
- · Secondary findings are not available for Rapid PGxome.
- · Carrier Status is always reported for Health Screen PGxome. The patient will have a choice about what other secondary findings are reported.
- · For Standard Diagnostic PGxome the patient and/ or patient's family will have a choice on which types of secondary findings are reported.
- · Please consider the following carefully. Variants described in these sections will only be reported if the patient OPTS IN.

SECONDARY FINDINGS NO CHARGE OPT INS

o Guideline Recommended Genes: The American College of Medical Genetics and Genomics recommends all labs performing WES report pathogenic variants in specific genes that cause certain, mostly dominantly inherited disorders (Version 3.2, Miller et al 2023. PubMed ID:37347242). These disorders are treatable and/or preventable. Included on this list are some cancer predisposition conditions, heart conditions associated with sudden death, and conditions that could result in severe health consequences if surgery is performed with certain anesthetics.

 \circ PG Discovery (Candidate Genes, Available for Diagnostic PCxome Trios with Biological Parents Only): WES provides the opportunity to identify rare variants in candidate genes for which there is limited available evidence. Relevant rare homozygous, hemizygous, compound heterozygous, and/or de novo variants are reported. These genes and variants reported within them will be classified as uncertain significance, and the variants will not be confirmed by a second method. Any literature, such as limited animal studies, etc., is referenced where available. Further research is required to understand if any human disease association exists. PreventionGenetics may reach out to request consent for submission of these variants to research programs and databases like GeneMatcher (https://genematcher.org/).

ADD ON SECONDARY FINDINGS

(additional charge) Please consider the following carefully. Variants described in these sections will only be reported if the patient OPTS IN (additional charges will apply).

o Other Predispositions/Diagnoses: This secondary finding option refers to a very broad range of disorders beyond the Guideline Recommended Genes above. Examples vary widely and include adult onset neurological conditions such as Alzheimer's disease, Parkinson disease, amyotrophic lateral sclerosis (ALS), and small vessel disease, as well as cancer predispositions, and renal conditions, among others. Some of these disorders are very serious, leading to death. While treatment or prevention will be effective for some of these disorders but not others, knowledge of these predispositions may be useful for the patient and their family. (Amendola et al. 2015. Genome Res 25(3):305-315; Dorschner et al. 2013. Am J Hum Genet 93(4):631-640). Some people may want to know about these disorders while others may prefer not to know. If this option is selected, all pathogenic and likely pathogenic variants in genes that are likely to result in a Mendelian (single gene) disorder (i.e., one variant in a dominant gene or X-linked gene or two variants in a recessive gene) will be reported.

Many of these conditions have adult onset, reviewing professional guidelines before discussing these options with minors and their families is recommended (Borry et al. 2006 Clin Genet 70(5):374-81; Lucassen et al. 2010 British Society for Human Genetics; Fallat et al. 2013 Pediatrics 131(3): 620-2; NSGC Position Statement 2017). For minors, predictive testing should be postponed until they have reached an age capable of true informed consent (ability to understand the risks, benefits, and implications of results). Consideration of testing in minors should ideally include

- genetic counseling, the parents, and ascent of the child. o Carrier Status (included n/c in Health Screen orders): WES can also provide panethnic carrier screening. For carrier status, variants in any gene that relate to an autosomal recessive or X-linked recessive disorder (in females) would be reported if this option is selected (regardless of the incidence of the condition). Such single recessive, pathogenic variants usually don't appreciably affect a patient's health, but may be useful in reproductive planning. In accordance with current professional guidelines, we do not recommend release of carrier information to minors (under the age of 18 years). For minors, carrier testing should be postponed until they have reached an age capable of true informed consent (ability to understand the risks, benefits, and implications of results). Consideration of testing in minors should ideally include genetic counseling, the parents, and ass ent of the child. (Borry et al. 2006. Eur J Hum Genet 14(2):133-8; NSGC Position Statement 2012; Ross et al. 2013 Genet Med 15(3):234-245). For minors, predictive testing should be postponed until they have reached an age capable of true informed consent (ability to understand the risks, benefits, and implications of results). Consideration of testing in minors should ideally include genetic counseling, the parents, and assent of the child.
- Genetic variants related to complex disease, and mitochondrial disorders (excluding nuclear genes) will not be reported at this time.
- Genetic variants in genes not currently known to be clinically relevant will not be reported unless trio testing is ordered and PG Discovery is selected.

· If testing reveals the family relationships are not as expected (for example, non-paternity), this information will be relayed to the healthcare provider(s) for discussion, but will not be included in the patient's report.

- PreventionGenetics will store the patient's sequence data. This will permit reanalysis and reinterpretation of the data in the future. Upon a physician's request, PreventionGenetics will perform, without additional charge, one reanalysis and reinterpretation of the data within three years of the date on the original test report. Thereafter, reanalysis and reinterpretation may be requested, but a fee will be charged for this service.
- PreventionGenetics recommends DNA sequence information from this test be stored in the patient's electronic medical record. This will best benefit the patient and family members. PreventionGenetics will provide WES data to an ordering provider upon request. PreventionGenetics does not supply software for data

RISKS

- Blood draw risks include bruising and bleeding. There is also a small chance the patient may get an infection, have excess bleeding, become dizzy, or faint from the blood draw.
- Learning about test results can be stressful and upsetting.
- ·The patient and/or patient's family may have concerns about genetic discrimination, including health insurance, life insurance, employment and long-term disability. These should be addressed according to federal and state laws. The Federal Genetic Information Non-discrimination Act (GINA) prohibits the use of genetic information for discrimination in health insurance and employment.

- · This test targets most, but not all, of the coding parts of our genes (called exons). All of the exons together is called the exome. The exome only covers approximately 1.5% of all the genetic material. However, testing the exome covers the vast majority of genetic variants which cause single gene (or Mendelian) disorders.
- Interpretation of the test results is limited by the information currently available. Better interpretation could be possible in the future as more data and knowledge about human genetics are accumulated.
- · Testing will detect single base pair changes and small and large deletions or duplications, but is generally unable to detect other types of genetic changes (e.g. rearrangements, inversions, deep intronic variants, methylation abnormalities, or repetitive sequence changes).
- ·This test will not provide detection of certain genes or specific exons of genes due to complicated technicalities (such as sequence characteristics, interfering pseudogenes, or inadequate coverage). In the case of deletions/ duplications, most will be detected including intragenic CNVs and large cytogenetic events. CNVs of 4 exons or more in size are detected with sensitivity approaching 100% through analysis of NGS data. However, sensitivity for detection of CNVs smaller than 4 exons is lower (the estimate ~75%). Sensitivity may vary from gene-to-gene based on exon size, depth of coverage, and characteristics of the region. Because of these technicalities, this test is not 100% sensitive and will not identify all disease-causing genetic variants.
- · Even if a disease-causing genetic variant associated with the patient's symptoms is identified, it may not allow for predictions regarding severity of the disease or prognosis.
- · It is very important your Healthcare Provider(s) provide an accurate family history and clinical information as that information is critical for result interpretation. Detailed clinical information (such as clinical features, a family pedigree, and results of prior testing) is required for testing to proceed.
- · Additional limitations to this test will be provided in the Supplementary material included with the test report.

CONFIDENTIALITY

Confidentiality and patient privacy are taken very seriously. The laboratory is CAP and CLIA certified, and adheres to confidentiality laws related to protected health information.



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All testing must be ordered by a qualified Healthcare Provider

>>>

A completed online order **OR** paper TRF and labeled specimen is required to initiate testing.

CLINICAL INFORMATION IS REQUIRED for PGnome®, PGxome®, and PGmax[™] panels.

Orders **MUST** include the completed clinical features checklist (preferred) or clinical notes/records. Completion of the checklist is strongly encouraged for all panel testing. The ability to interpret variants directly correlates with the quality of clinical information provided. Also include family medical history/pedigree, if available.

CLINICAL FEATURES						
PERSON COMPLETING FORM		CONTACT (DIREC	CT PHONE OR EMAIL)		DATE OF REQUEST (MM/DD/YYYY)	
LAST (FAMILY) NAME	PA	FIRST NAME	FORMATION EEN TESTED PREVIOUSLY AT PREVENTION	MI NGENETICS?	DATE OF BIRTH (MM/DD/YYYY) BIOLOGICAL SEX	
		NO YES, PG ID#	-		Male Female Other	
	CLINICAL INF	ORMATI	ON (CHECK ALL THAT APP	LY)		
PRE/PERINATAL Abnormality of septum pellucidum Absent septum pellucidum Cavum septum pellucidum Choroid plexus cyst (CPC) Absent nasal bone Congenital heart defect Intracardiac echogenic focus (IEF) Cystic hygroma Increased nuchal translucency, Size (mm): Pleural effusion Pericardial effusion Generalized edema Fetal ascites Hydrops fetalis Diaphragmatic hernia Absent stomach bubble Omphalocele Gastroschisis Echogenic bowel Fetal pyelectasis/hydronephrosis Decreased fetal movement Encephalocele Myelomeningocele/Spina bifida Sacrococcygeal teratoma Intrauterine growth retardation (IUGR) Small for gestational age (SGA) Oligohydramnios Polyhydramnios Short long bones Small thorax Fetal demise Prematurity, Gestational Age: Other:	STRUCTURAL BRAIL ABNORMALITIES / I Abnormal/delayed n Abnormality of basa Abnormality of brain Abnormality of white Periventricular Other: Abnormality of cerel Colpocephaly Hydrocephalus Ventriculomegaly Abnormality of corpinorphology: Agenesis Complete Partial Aplasia/hypoplasia overmis	MAGING nyelination ganglia stem e matter: pral ventricles: us callosum a f cerebellar f cerebellum mation: poplasia n orrhage ricular abnormality otopia	Cognitive impairment Delayed fine motor development Delayed gross motor development Developmental regression Gait disturbance Specify: Global developmental delay Hyperactivity Incoordination Intellectual disability Mild Moderate Severe/profound Learning disability Language impairment Absent speech Apraxia Articulation difficulties Delayed speech and languate development Expressive Receptive Dysarthria Echolalia Loss of speech Memory impairment Obsessive-compulsive behavior Self-injurious behavior: Biting Head-banging Skin picking Sensory processing disorder/neurodevelopmental abnormates Sleep disturbance Stereotypy Recurrent hand flapping Stereotypical hand wringing Other: NEUROLOGICAL Abnormality of nervous system Ataxia Athetosis		radykinesia erebral palsy norea pritical visual impairment ementia ysarthria yskinesia ysphagia ystonia ncephalopathy ait disturbance, pecify: eadache emiplegia ypotonia ypertonia fantile spasms igraine yoclonus europathy Peripheral Sensory arkinsonism/Parkinson Disease eizures, Type: pasticity yncope emors ertigo ther: MIOFACIAL/ MORPHISM ponormal facial shape, pecify: onormality of incisors, pecify: a nasi Cleft Thick Underdeveloped inteverted nares rachycephaly	

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	PATIENT	
LAST NAME		
FIRST NAME	N	41

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Chin abnormality, Specify:	☐ Microcephaly	EYES/VISION Age of onset of vision issues:	Macular abnormality, Specify:
Cleft lip:	☐ Micrognathia ☐ Nasal base abnormality:	Age of onset of vision issues:	Macular dystrophy
☐ Unilateral	Narrow	Esotropia	☐ Microphthalmia
Bilateral	☐ Wide	☐ Exotropia	Myopia
Midline	Nasal bridge abnormality:	☐ Nystagmus	☐ Ocular albinism
☐ Cleft palate: ☐ Unilateral	☐ Depressed ☐ Narrow	☐ Smooth pursuit ☐ Strabismus	☐ Optic atrophy
☐ Bilateral	☐ Prominent	Other:	Optic neuropathy
Midline	Short	Abnormality of vision,	Palpebral fissure abnormality:
Submucous cleft	Wide	Specify:	☐ Downslanted ☐ Upslanted
☐ Cloverleaf skull ☐ Columella abnormality:	☐ Nasal cartilage, absent	Abnormal anterior eye segment	Long
☐ Broad	☐ Nasal ridge abnormality:☐ Depressed	morphology Ablepharon	Short
High insertion	□ Depressed □ Narrow	Achromatopsia	☐ Almond-shaped
Low hanging	₩ide	☐ Aniridia	☐ Proptosis ☐ Ptosis
☐ Low insertion ☐ Short	☐ Nasal tip abnormality:	☐ Ankyloblepharon	☐ Retinal flecks
Craniosynostosis:	Bifid	☐ Anophthalmia	Retinal detachment
Coronal	☐ Broad ☐ Depressed	☐ Blepharochalasis	Retinitis pigmentosa
Lambdoidal	Deviated	☐ Blepharophimosis	Synophrys
Metopic	Narrow	☐ Cataracts	☐ Telecanthus
☐ Orbital ☐ Sagittal	Overhanging	Cataracts, congenital	Other:
☐ Dolichocephaly	☐ Nasolabial fold abnormality: ☐ Prominent	Coloboma	EARS/HEARING
Face abnormality:	☐ Underdeveloped	Corneal opacity	Age of onset of hearing loss:
Broad	☐ Neck abnormality:	☐ Corneal dystrophy ☐ Cone/cone-rod dystrophy	☐ Hearing impairment
Coarse facial features	Broad	☐ Cone/cone-rod dystrophy ☐ Congenital stationary night	Sensorineural
☐ Flat ☐ Long	Long	blindness	☐ Congenital ☐ Bilateral
□ Narrow	☐ Webbed ☐ Short	☐ Cryptophthalmos	Progressive
Round	Redundant nuchal skin	Deeply set eyes	☐ Conductive
Short	☐ Nose abnormality:	☐ Distichiasis	Congential
☐ Square ☐ Triangular	Absent	Dyschromatopsia (color	☐ Bilateral ☐ Progressive
Forehead abnormality:	☐ Bifid ☐ Long	blindness)	☐ Progressive
☐ Broad	□ Long □ Narrow	☐ Ectopia lentis	Anotia
Narrow	Prominent	☐ Ectropion ☐ Entropion	Abnormal newborn screen,
☐ Prominent ☐ Sloping	Short	☐ Entropion ☐ Epiblepharon	Specify:
☐ Sloping ☐ Creases	☐ Wide	☐ Epicanthus/epicanthal folds	Antihelix abnormality:
Frontal bossing	☐ Occiput abnormality: ☐ Flat	☐ Epicanthus inversus	☐ Absent ☐ Additional crus
☐ Jaw abnormality:	Prominent	☐ Eyebrow abnormality:	Angulated
Broad	☐ Plagiocephaly	Broad	☐ Inferior crus broad
Narrow	Philtrum abnormality:	☐ Highly arched ☐ Horizontal	☐ Inferior crus prominent
☐ Lip vermilion abnormality ☐ Lip abnormality:	Broad	Sparse	☐ Inferior crus underdeveloped☐ Superior crus prominent
Pit	☐ Deep ☐ Hypoplastic	☐ Thick	Superior crus underdeveloped
☐ Thin	Long	☐ Eyelash abnormality:	Antitragus abnormality:
Thick	Narrow	Absent	Absent
☐ Tented ☐ Exaggerated cupid's bow	│ Smooth │ Short	☐ Long ☐ Prominent	☐ Bifid ☐ Everted
Absent cupid's bow	☐ Tented	Sparse	☐ Prominent
Malar abnormality:	☐ Proboscis	☐ Eyelid cleft	☐ Underdeveloped
Flattening	☐ Prognathism	☐ External ophthalmoplegia	☐ Ear abnormality:
☐ Prominence	☐ Retrognathia	Progressive	☐ Abnormality of the tragus☐ Auricular pit
☐ Midface abnormality:	☐ Scaphocephaly	Glaucoma	Crumpled
☐ Flat ☐ Prominence	Supraorbital ridge abnormality:	☐ Infraorbital abnormality: ☐ Crease	Cupped
Retrusion	☐ Prominent ☐ Underdeveloped	Fold	Long
Macrocephaly:	☐ Trigonocephaly	☐ Iris abnormality,	☐ Low-set ☐ Posteriorly rotated
☐ Relative ☐ True	Turricephaly	Specify:	Preauricular pit
☐ Irue ☐ Metopic suture abnormality:	Other:	☐ Lagophthalmos	Protruding
Depression		Leber optic atrophy	Short
Ridge		☐ Lens subluxation	☐ Satyr ☐ Tag



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	PATIENT		
LAST NAME			
FIRST NAME		MI	
LIKS! HANNE		11411	

Helix abnormality: □ Lymphopenia □ Bradycardia GENITOURIN □ Cleft / Notching □ Neutropenia □ Coarctation of the aorta □ Abnormality □ Crimped □ Pancytopenia □ Congenital heart defect Specify:	
☐ Cleft / Notching ☐ Neutropenia ☐ Coarctation of the aorta ☐ Abnormality	
	y or the ateras,
☐ Darwin notch ☐ Recurrent infections ☐ Dilated cardiomyopathy ☐ Ambiguous	: genitalia
Darwin tubercle Severe combined Double outlet right ventricle Chordee	geriitalia
□ Noticning □ immunodeficiency □ □ Ebetain anomaly □ □ Cryptorchid	licm
U Overloided	
	collecting system
□ Lobe abnormality: □ Hypertrophic cardiomyopathy □ Hydroneph	
E Abiliotitidi bilistering of the skiri, Li : "" are produce of Li : "" prospadio	
Small Abhormaticy of hall. Patent ductus arteriosus Micropenis	
	kidney dysplasia
Macrotia Ditc	
Other: Display Pulmonary hypertension Display Polycystic k	-
☐ Renaragen	esis/hypoplasia
	ageneisis al hypoplasia
- Circular Total and State of the Control of the Co	
Multiple Transposition of the great vessels	
Corres bair	
Collection behave	
Delayed boile age Ventricular tachycardia	
Delayed paperty MoscoLosk	
□ Diabetes insipilities □ □ Dividin □ GASTROINTESTINAL □ Abnormal C	connective tissue
□ Billiary atresia □ □ Abnormal C	digit morphology
Typeralidrogenism	
☐ Hemangioma ☐ Constipation: ☐ Clinodac	ctvlv
Tryper priospriate inia E Acute Extradat	
Type rityolasin Anterior Chronic Oligodac	
Hypoglycemia Diarrhea Polydact	
Hypophosphatemia Diaphragmatic hernia Postay	
☐ Hypothyroidism ☐ Posterior ☐ Duodenal stenosis/atresia ☐ Preaxi ☐ Increased cortisol level (Cushing) ☐ Low ☐ Esophageal stenosis/atresia ☐ Syndacty	
	Ctyly
	osis
Billion of the china and the c	
Coult Cooping Carrellax	
C Small ch	
RESPIRATORY Hepatomegaly Barrel-sh	
☐ Asthma ☐ Jackington ☐ Bell-shar	ped thorax
	arinatum
□ Bronchomalacia □ Lymphedema □ Jaundice □ Pectus e □ Hyperventilation □ Palmoplantar keratoderma □ Liver disease □ Contracture	
Tryper vertiliation	
Trypovericiation	muscle mass
Laryrigornalacia Delayed bol	
☐ railyingedi cierr ☐ Dolicinostei	
☐ Pneumothorax ☐ Telangiectasia ☐ Pancreatitis ☐ Exercise into	olerance
Pulmonary fibrosis Vascular skin abnormality Pyloric stenosis Fatigue	
Respiratory insufficiency Velvety skin Splenomegaly Fracture(s)	
☐ Tracheomalacia ☐ Other: ☐ Tracheoesophageal fistula ☐ Hemihyperi	trophy
☐ Tracheoesophageal fistula ☐ Tube feeding ☐ Hypertonia ☐ Tube feeding ☐ Tube fe	
Other: Nasogastric Hypotonia	
HEMATOLOGIC/IMMUNOLOGIC Aortic root dilatation Gastrostomy Gastrojejunal Joint hyperi	mobility
☐ Agammaglobulinemia ☐ Arrhythmia ☐ Gastropydnia ☐ Kyphosis	
Allergic rhinitis Atrial septal defect Densiting Limb shorter	
Anemia Atrioventricular canal defect	
Hemolytic anemia Arrhythmogenic right ventricular	
Immunodeficiency dysplasia	al abnormalities:
Specify: Bicuspid aortic valve	



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		PATIENT	
	LAST NAME		
	FIRST NAME		MI
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Myalgia Myopathic facies Myopathy Myelomeningocele/Spina Bifida/ Neural Tube Defect Osteoarthritis Osteoperosis Osteopenia Pain: Absent/decreased Abnormal sensation Episodic Limb Muscle Platyspondyly Recurrent fractures Rhabdomyolysis Rib abnormality: Cupped Fused Supernumerary Missing Short Spatulate	Rickets Scoliosis Short sta Skeletal Talipes Equir Othe Tall statu Thoracic Thumb a Addu Broac Triph. Vertebra Hemi Other: VASCULA Aneurys Aortic: Abdoo	ature dysplasia novarus r: ure dysplasia abnormality: cted d alangeal il bodies, abnormal form iia/hypoplasia erfly n vertebrae R SYSTEM m minal cting cic	Cerebral Other: Arterial calcification Arterial dissection Arterial tortuosity Arteriovenous malfo Epistaxis Lymphedema Pulmonary hyperte Arterial Vascular Stroke Other: Other: CHER TESTING Provide copy of report Echocardiogram: EEG: EMG/NCV: Biopsy: Gene testing: Results:	ormation nsion:	If you would like us to comment on the presence/absence of previously identified variants, provide a copy of the original report. Chromosomal Microarray (CMA): MRI brain: MRI (other): CT (other): Muscle biopsy: Ultrasound: X-Ray:
METABOLIC FINDINGS · Attach	relevant la				
Abnormal newborn screen Specify:			5		tabolic features
Abnormal metabolic profile		Oligosaccharides		Abnormal cerebrospinal fluid (CSF) studies	
(please check each metabolite outside non	mal limits)			-	al glycosylation
Acylcarnitine		Pterins		· -	
Acylglycines		Purines			al mitochondrial respiratory chain
Amino Acids		Pyrimidine		. │ │	nmonemia
Amylase		Pyruvate		.	lirubinemia
☐ Biotindase		Serum alpha fetoprot	ein (AFP)	.	
Carnitine		Sterols/Oxysterols		• -	ycemia
Cerebrospinal fluid		Transferrin		Hyperlip	oidemia
Coenyzme/enzyme activity		Uric acid		_ Hypogly	/cemia
Creatine phosphokinase (CPK)		☐ Very long chain fatty a	acids (VLCFA)	. Hypolipi	idemia
Essential fatty acids		Abnormal vitamin le		☐ Plasm	na
Folate		(please check each vitami normal limits)	in measuring outside	☐ Urine	
☐ Hepatic Transaminase		Copper		. │	cidosis
☐ Homocysteine		│			lic Acidosis
Hormones		_			
Ketones		☐ Vitamin B6			nalonic aciduria
Lactic acidosis					nalonic acidemia
		_			
Lipoproteins					
Lysosomal enzymes					



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	PATIENT		
LAST NAME			
FIRST NAME		MI	

Test information is available on our website:

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CANCER HISTORY Patient Information ■ No personal history ☐ Ovarian/Fallopian Tube / □ Pancreatic Other of cancer **Primary Peritoneal** Age of diagnosis: _ Age of diagnosis: ___ Age of diagnosis: _ Details: ___ □ Breast Prostate Age of diagnosis: _ □ Colorectal Age of diagnosis: __ ☐ Triple-Negative (ER, PR, Age of diagnosis: Metastatic Her2 negative) ☐ Yes ☐ No ☐ Unknown MSI/IHC results: DCIS (Ductal Carcinoma In Gleason Score Situ) ☐ Endometrial / Uterine **Polyps** ☐ DC (Invasive Ductal Age of diagnosis: ___ Age of diagnosis: _ Carcinoma) Number of polyps:_____ ☐ ILC (Invasive Lobular MSI/IHC results: Carcinoma) Pathology details: _____ ☐ Bilateral / >1 Primary **Family History of Cancer or Include Pedigree** ■ No known family history of cancer Limited Family Structure Limited family history available such as fewer than two female first or second-degree maternal or paternal relatives having lived beyond age 45 **Ashkenazi Jewish** □ NO YES, Maternal Yes, Paternal Unknown UNAVAILABLE RELATIVE IS FOR TESTING DECEASED PATIENT HAS NO CONTACT WITH WITH RELATIVE RELATIVE DECLINES TESTING AGE OF DIAGNOSIS **RELATION TO PATIENT** SELECT CANCER / POLYP TYPE / GLEASON SCORE ☐ Maternal Paternal ☐ Maternal ☐ Paternal П П ☐ Maternal Paternal Maternal П П

PEDIGREE

PAST FAMILY GENETIC TESTING NO previous testing in family. YES, Include Germline, Somatic or Tumor testing results. Describe or attach copies of report.

П

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 \Box

Use this area to include a pedigree and/or additional relevant medical/family history.

VARIANT

Paternal
Maternal
Paternal

KNOWN FAMILIAL VARIANT: GENE