

PHONE 713.798.6555 FAX 713.798.2787

CONNECT



WES ADVANTAGE REQUISITION

PATIENT INFORMATION (COMPLET	TE ONE FORM FOR EACH PERSON TEST	red)				
Patient Last Name	Patient First Nan	ne		MI	/	//
					Bute of	
Address			City	Biological Sex:	State	Zip
Phone	Accession #	Hospital / Medical	Record #	Female Gender identity (if	Male (different from above)	Unknown
REPORTING RECIPIENTS						
Ordering Physician		Institution Nar	ne			
Email (Required for International Clie	nts)	Phone		Fax		
ADDITIONAL RECIPIENTS						
Name		Email		Fax		
Name		Email		Eax		
		Ellidit		FdX		
PAYMENT (FILL OUT ONE OF THE	OPTIONS BELOW)					
SELF PAYMENT		•••••			•••••	• • • • • • • • • • • • • • • • • • • •
Pay With Sample	Bill To Patient					
INSTITUTIONAL BILLING	••••••			•••••		
Institution Name	Institution Code	Institution Contact I	Vame	Institution Phone	Institu	tion Contact Email
○ INSURANCE						
Do Not Perform Test Until F	Patient is Aware of Out-Of-Pocket Costs (ex	cludes prenatal test	ing)			
REQUIRED ITEMS 1. Copy of	of the Front/Back of Insurance Card(s) 2. ICI	D10 Diagnosis Code(s)	3. Name of Order	ring Physician 4. In	sured Signature of A	uthorization
	/ /	÷			/	/
Name of Insured	Insured Date of Birth (MM / DD / Y	YYY) Nam	ie of Insured		Insured Date of	Birth (MM / DD / YYYY)
Patient's Relationship to Insured	Phone of Insured	Pati	ent's Relationship	to Insured	Phone of Insur	ed
Address of Insured		Add	ress of Insured			
City	State Zip	City			State	Zip
Primary Insurance Co. Name	Primary Insurance Co. Phone	Sec	ondary Insurance (Co. Name	Secondary Insu	irance Co. Phone
Primary Member Policy #	Primary Member Group #	Sec	ondary Member Po	olicy #	Secondary Mer	nber Group #
By signing below, I hereby authorize understand that I am responsible for reasons including, but not limited to, directly from my insurance company	e Baylor Genetics to provide my insuran any co-pay, co-insurance, and unmet ded non-covered and non-authorized service in payment for this test. Please note that	nce carrier any infor uctible that the insur s. I understand that t Medicare does not	mation necessary ance policy dictat I am responsible f cover routine scre	y, including test rest es, as well as any am for sending Baylor Go eening tests.	ults, for processir nounts not paid by enetics any and al	ng my insurance claim. my insurance carrier fo l payments that I receiv
					/	/
Patient's Printed Name	Patier	nt's Signature			Dat	e (MM / DD / YYYY)
STATEMENT OF MEDICAL NECESS	ITY (REQUIRED)					
This test is medically necessary for the risk and treatment decisions. The person listed have consented to genetic testing.	x assessment, diagnosis, or detection of a disease as the Ordering Physician is authorized by law to	e, illness, impairment, sy order the test(s) reques	mptom, syndrome, or ted herein. I confirm t	r disorder. The results wi that I have provided gene	ill determine my patie etic testing informatio	ent's medical management on to the patient and they
					/	/
Physician's Printed Name	Physi	cian's Signature			Dat	e (MM / DD / YYYY)

Physician's Signature

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				/ /	
Patient Last	Name	Patient First Name	MI	Date of Birth (MM / DD / YYYY)	Biological Sex
INSTRUCTIO	ONS FOR ORDERING				
Listed below a mosomal Micro considered du	re test codes that when ordered tog oarray Analysis, mtDNA Analysis or plicate ordering. Parental samples a	gether allow for the most comprehensive assessm · Global MAPS can be ordered along with an exome are required for Trio WES and optional for Proband	ent to increase the test. For exome te WES.	diagnostic yield for patients with an undifferentiated ph esting, select either Trio WES or Proband WES since orde	enotype. Any combination of Chro- ring both Trio and Proband WES is
EXOME TES	TS				
TRIO WES	TESTS			CORRESPONDING PARENTAL TESTS	
1600	Trio Whole Exome Sequenci	ng		1550 Parental WES - Maternal	
1532	Trio Whole Exome Sequencia (Send 2 separate EDTA tubes of b	ng + Comprehensive mtDNA Analysis ^{llood)}		1550 Parental WES - Paternal	
1722	Critical Trio Whole Exome Se	equencing			
1533	Critical Trio Whole Exome Se (Send 2 separate EDTA tubes of b	equencing + Comprehensive mtDNA Analysi blood)	S		
Add CMA to y	your Trio test by selecting belo	W			
8665	Chromosomal Microarray Ar	nalysis (CMA) - HR + SNP Screen (Comprehe	ensive)		
PROBAND	WES TESTS			CORRESPONDING PARENTAL TESTS . (Send within 2 weeks of proband sample)	
1500	Proband Whole Exome Sequ	encing		1505 Parental Sanger - Maternal	
1530	Proband Whole Exome Sequ Analysis (CMA) (Comprehens	encing + Chromosomal Microarray sive)			
1531	Proband Whole Exome Sequ	encing + Comprehensive mtDNA Analysis			
GLOBAL MA	APS® TESTS			SAMPLE	
4900	Global Metabolomic Assiste	d Pathway Screen - Plasma from EDTA		Date of Collection (MM / DD / YYYY)	_ / /
	Was plasma extracted from	EDTA? 🔿 Yes 🔿 No			Plasma from EDTA
4901	Global Metabolomic Assiste	d Pathway Screen - Urine			(Global MAPS only)
4902	Global Metabolomic Assister	d Pathway Screen - Cerebrospinal Fluid			🔘 Saliva (CMA only)
Add CMA or	Mitochondrial testing to your G	Blobal MAPS test by selecting below			Skeletal Muscle (mtDNA Analysis only)
8665	Chromosomal Microarray Ar	nalysis (CMA) - HR + SNP Screen (Comprehe	ensive)	Cultured Skin Fibroblast Extracted DNA from	(mtDNA Analysis only)
2055	Comprehensive mtDNA Anal	lysis by NGS		Liver (mtDNA Analysis only)	Urine (Global MAPS only)
BIOLOGICA	L PARENTS INFORMATION				

BIOLOGICAL PARENTS SAMPLES ARE REQUIRED FOR TRIO WES; Other family members cannot be substituted for either parent. Send 10 cc blood in an EDTA tube for each parental sample. Be sure to label parental samples with full name and date of birth - DO NOT LABEL WITH CHILD'S NAME. Must sign parental testing authorization on consent.

MATERNAL INFORMATION

PATERNAL INFORMATION

MATERNAL INFORMAT	ION				PATERNAL INFORMATIO	DN			
Asymptomatic	Symptom	atic (Attach sum	nmary of findings)		Asymptomatic	Symptom	atic (Attach sur	mmary of findings)	
Maternal Last Name		Maternal Fir	st Name	MI	Paternal Last Name		Paternal Fir	rst Name MI	
Maternal Date of Birth (MM / DD / YYYY)	/_	/	Sample Type:		Paternal Date of Birth (MM / DD / YYYY)	/_	/	Sample Type:	
Date of Collection (MM / DD / YYYY)	/_	/	— O Saliva (or	nly for 1505)	Date of Collection (MM / DD / YYYY) _	/_	/	— O Saliva (only for 1	505)
					:				

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WES ADVANTAGE REQUISITION

			/ /	
Patient Last Name	Patient First Name	MI	Date of Birth (MM / DD / YYYY)	Biological Sex
ITEM CHECKLIST FOR TESTING				
Proband Sample (Required)	Signed WES Consen	t Form	Indication for Stud	у
Maternal Sample (Required for Trio)	Clinical Note/Summ	ary		
Paternal Sample (Required for Trio)	Requisition			
INDICATION FOR TESTING (REQUIRED)				

Please provide the following clinical information regarding the patient to be tested. Please also submit a clinic note and pedigree, if available. Phenotypes listed are in HPO terms with the corresponding HPO number (http://human-phenotype-ontology.github.io/). This information is needed to facilitate interpretation of whole exome sequencing results. If the laboratory requires additional information, please indicate the health care provider to be contacted:

Physician Name	:	Physician Phone	ICD-10 Diagnosis Code(s)
PRE/PERINAT	AL HISTORY	EYE DEFECTS & VISION	MOTOR/COGNITIVE DEVELOPMENT
<pre>0001622 0001511 0001562 0001561 0000476 0000776 00001508 0001508 0001539 0002084 0010880</pre>	Prematurity - GA at birth Intrauterine Growth Restrictions Oligohydramnios Polyhydramnios Cystic Hygroma Congenital Diaphragmatic Hernia Failure to Thrive Omphalocele Encephalocele Increased Nuchal Translucency	0000505Visual Impairment0000618Blindness0000589Coloboma0000526Aniridia0000528Anophthalmia0000568Microphthalmia0000508Ptosis0000486Strabismus0000519Cataract Congenital Bilateral	0000750 Delayed Speech & Language Development 0001270 Delayed Motor Milestones 0002376 Developmental Regression Intellectual Disability 0001256 0002342 Moderate 0010864 Severe 0000729 Autistic Spectrum Disorder
STRUCTURAL E	BRAIN ABNORMALITIES	NEUROLOGICAL	····· CRANIOFACIAL ·····
0001360	Holoprosencephaly	0001284 Areflexia	0000256 Macrocephaly
0001339	Lissencephaly	0200134 Epileptic Encephalopathy	0000252 Microcephaly
0002084	Encephalocele	0001250 Seizures	0001363 Craniosynostosis
0000238	Hydrocephalus		0000204 Cleft Upper Lip
0002119	Ventriculomegaly		0000175 Cleft Palate
0001273	Abnormality of Corpus Callosum Cortical Dysplasia	O002123 Generalized Myoclonic Seizures	0000316 Hypertelorism
	Brain Atrophy	Generalized Tonic-clonic 0002069 Seizures	0008050 Abnormality of the Palpebral Fissures 0008294 Episorthal Falds
	Abnormality of Neuropal Migration	0010818 Generalized Tonic Seizur	es 0000288 Appormality of the Philtrum
	Polymicrogyria	0010819 Atonic Seizures	0010038 Abnormality of the External Nose
	Pachovria	0002121 Absence Seizures	
	Abnormality of Cerebral White Matter		
	Cerebral Dysmyelination		
	Cerebral Hypomyelination		
	Abnormality of the Basal Ganglia		
	Abnormality of the Brainstem	UUU2U72 Chorea	
	Anlasia/Hynonlasia of the Cerebellum	0001257 Spasticity	
0006817	Aplasia/Hypoplasia of the Cerebellar Vermis	0009830 Neuropathy	
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Patient Last Na	me P	atient First Name	MI	Date of Birth (MM / DD / YY	YY) Biological Sex
INDICATION F	OR TESTING (REQUIRED) - CO	ONTINUED			
HAIR & SKIN	••••••	CARDIAC ·		GENITOURIN	ARY
0000957	Cafe-Au-Lait Spots	0001631	Atria Septal Defect	0000113	Polycystic Kidney Dysplasia
0001034	Hypermelanotic Macule	0001629	Ventricular Septal Defect	0000107	Renal Cyst
0001010	Hypopigmentation of the Skin	0001655	Patent Foramen Ovale	0008738	Partially Duplicated Kidney
	Abnormal Blistering of the Ski	n 0001712	Abnormality of Cardina Ventrial	0000104	Renal Agenesis
	Ichthyosis				Horseshoe Kidney
	SKIN Kash Recurrent Skin Infections	0001636	Tetralogy of Fallot		Abnormality of the Ureter
	Capillary Hemangiomas	0001680	Coarctation of Aorta		Abnormality of the Urethra
0001597	Abnormality of the Nail	0001647	Bicuspid Aortic Valve		Hynospadias
0004554	Generalized Hypertrichosis	0002616	Aortic Root Dilatation		Cryptorshidism
0001596	Alopecia	0001638	Cardiomyopathy		Absormality of the Testia
0002208	Coarse Hair	0011675	Arrhythmia		Aphormaticy of the festis
0002299	Brittle Hair		,,	0000062	Ambiguous Genitalia
<u> </u>				<u> </u>	
RESPIRATOR	γ	METABOLIC	••••••	MUSCULOSK	ELETAL
0002093	Respiratory Insufficiency	0001946	Ketosis	0011398	Hypotonia
	Respiratory Failure		Hyperglycemia	0001276	Hypertonia
			Hypergrycemia	0000098	Tall Stature
	Apriea		Asidasis	0004322	Short Stature
	Hypoventilation		ACIGOSIS	0001382	Joint Hypermobility
0002883	Hyperventilation Recurrent Upper Respiratory	[] 0003128	Lactic Acidosis	0001371	Flexion Contracture
0002788	Infections	0003215	Dicarboxylic Aciduria	0002804	Arthrogryposis Multiplex Congenita
		0002490	Increased CSF lactate	0001161	Hand Polydactly
		0001992	Organic Aciduria	0001829	Foot Polydactly
		0030085	Abnormal CSF Lactate Level	0006101	Finger Syndactly
		00003542	Increased Serum Pyruvate	0001770	Toe Syndactly
GASTROINTE	STINAL		3-Methylglutaconic aciduria	0100490	Camptodactyly of Finger
0002021	Pyloric Stenosis	0001942	Metabolic acidosis		Oligodactyly
0002575	Tracheoesophogeal Fistula	0100493	Hypoammonemia		Talipes Equinovarus
	Esophageal Atresia		Hyperammonemia		Recurrent Fractures
	Bancroatitic				Kuphosis
	Diarrhea		Hyperphenylalaninemia		Hyperlordosis
	Constipation	0003234	Decreased Plasma Carnitine		Hemihynertronhy
0002037	Inflammatory Bowel Disease	0003236	Phosphokinase		Obesity
0004389	Intestinal Pseudo-Obstruction	Abnormal	Newborn Screen	0001548	Overgrowth
0001399	Hepatic Failure	Unusual Co	olor/Odor	0002652	Skeletal Dysplasia
0002572	Episodic Vomiting				
0001744	Splenomegaly				
0002240	Hepatomegaly				
	Postnatal Failure to Thrive				
0002578	Gastroparesis				
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WES ADVANTAGE REQUISITION

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Patient Last Na	me Patient First Na	ne	MI	Date of Birth	h (MM / DD / YY	YY) Biological Sex
INDICATION F	OR TESTING (REQUIRED) - CONTINUED					
ENDOCRINE	••••••	HEMATOLOGY	•••••	•••••	OTHER ····	
0000819 0000873 0000821 0000829 0000834 0001738 0002721	Diabetes Mellitus Diabetes Insipidus Hypothyroidism Hypoparathyroidism Abnormality of the Adrenal Glands Exocrine Pancreatic Insufficiency Immunodeficiency	 0001875 000 Chr Cyc 0001873 0040185 0005537 0005518 0004444 0012410 	Neutropenia 5549 Congenital onic lic Thrombocytopenia Macrothrombocytopenia Decreased Mean Platelet Volum Erythrocyte Macrocytosis Spherocytosis Pure Red Cell Aplasia	ie	 Organome Chronic Ini 0004311 0001954 0004313 0010701 0002721 0012088 0012537 0008067 	galy fections Abnormality of Macrophages Episodic Fever Hypogammaglobulinemia Abnormal Immunoglobulins Immunodeficiency Abnormal urinary odor Food intolerance Abnormally lax or byperextensible skin
EAR DEFECTS	5 & HEARING Sensorineural Hearing Impairment 8619 Bilateral Conductive Hearing Impairment Mixed Hearing Impairment Productional Dit	☐ Apla ☐ Hyp ☐ 0001903 ☐ 0005528 ☐ ☐	astic oplastic Anemia Bone Marrow Hypocellularity		Abnormal Abnormal Family His 0001254 0002415	Movements tory of Similar Disorder Lethargy Leukodystrophy
0000384 0000369 000037	Preauricular Nt Preauricular Skin Tag Low-set Ears Abnormality of the Pinna	CANCER ···· Type of Can Age of Diag Family Hist	nosis ory of Cancer and Affected Relat	tives	GENES OF IN	TEREST

ADDITIONAL CLINICAL INFORMATION

DIFFERENTIAL DIAGNOSIS

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____/ __/ Date of Birth (MM / DD / YYYY)

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Biological Sex

WES ADVANTAGE REQUISITION

Patient Last Name

Patient First Name

INFORMATION AND CONSENT FOR TESTING

-- Also available in other languages at BMGL.com under the Testing tab.

Your physician has advised you (or your child) to undergo the genetic test called Whole Exome Sequencing (referred to WES). The purpose of this document is to provide information about the test. This information is meant to be used as a supplement to your discussion with your health care professional. The decision to undergo WES is made by you and your physician. In general, the test is used when your medical history and physical exam findings strongly suggest that there is a genetic cause for your medical issues. If you agree to have the WES test, you will be asked to sign the pages that follow in this document, indicating that you understand the information provided and wish to have testing. You will be given a copy of this document for your records.

Test order 1531, 1532 and 1533, in addition to WES analysis as detailed below, will also include a separate analysis of the mitochondrial DNA. To learn more about this testing please visit our website, test code 2055 Comprehensive mtDNA Analysis by Massively Parallel Sequencing (MitoNGSSM). This is the evaluation of the entire mitochondrial genome for point mutations and deletions. The detection threshold of massively parallel sequencing analysis for heteroplasmic mitochondrial DNA point mutations is approximately 1.5%. This will be reported separately from the WES results with a turnaround time of 50 days. If an mtDNA change is identified the report will indicate recommendations for familial follow-up. BMGL will NOT automatically initiate testing on the maternal sample, if this is desired please contact client services for assistance.

DESCRIPTION OF WHOLE EXOME SEQUENCING TEST

Test order 1530, in addition to Proband WES analysis as detailed below, will also include a separate analysis for detection of deletions and duplications plus a screen for detection of uniparental disomy (UPD) and absence of heterozygosity (AOH). To learn more about this testing please visit our website, test code 8665 Chromosomal Microarray Analysis – HR + SNP Screen (Comprehensive). This will be reported separately from the WES results with a turnaround time of 14 days. If a copy number change is identified the report will indicate recommendations for familial follow-up. BMGL will NOT automatically initiate testing on the parental sample(s), if this is desired please contact client services for assistance.

Test order 4900, 4901 and 4902 (Global MAPS) is a large scale, semi-quantitative screening test that looks at perturbations in both individual analytes and pathways related to biochemical abnormalities, including but not limited to amino acid, organic acid, lipid, and nucleotide metabolism. This is a small molecule screen for compounds ranging in size from 50-1500 Da. It should be used as a screening tool for individuals who have an undifferentiated phenotype or as supportive evidence in individuals with equivocal mutations in genes related to metabolic processes. It is not intended to supplant current diagnostic testing for specific conditions nor is it intended for monitoring therapy. Any abnormalities detected on the Metabolomic Profile should be confirmed by diagnostic biochemical or molecular diagnostic testing. Consent for testing below is only for WES and does not need to be completed if only Global MAPS is being ordered.

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The WES test is a highly complex test that is developed for the identification of changes in an individual's DNA that are causative or related to their medical concerns. The exome refers to the portion of the human genome that contains functionally important sequences of DNA that direct the body to make proteins essential for the body to function properly. These regions of DNA are referred to as exons. It is known that most of the errors that occur in DNA sequences that then lead to genetic disorders are located in the exons. In contrast to other sequencing tests that analyze one gene or small groups of related genes at a time, WES will analyze the important regions of tens of thousands of genes at the same time. Therefore, sequencing of the exome is thought to be an efficient method of analyzing a patient's DNA to discover the genetic cause of diseases or disabilities. However, it is possible that even if WES identifies the underlying genetic cause for the disorder in your family this information may not help in predicting prognosis or change medical management or treatment of disease.

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TESTING REPORTING

When your exome sequence is compared to a normal reference sequence, many variations or differences are expected to be found. Based on currently available information in the medical literature and in scientific databases, we will decide whether any of these variations are predicted to be causative or related to your medical condition. The report will contain results that may explain the cause of your current medical problems. It may also contain information on genes and diseases that have clear and immediate medical significance to your health or the health of family members, whether or not they relate to your current symptoms.

In addition, it may also contain information in the following categories:

Category I: Medically Actionable. The report may also contain information on genes and diseases that are considered medically actionable because they have clear and immediate medical significance to your health or the health of family members, whether or not they relate to your current symptoms. The American College of Medical Genetics (ACMG) has published guidelines for the reporting of these types of medically actionable or incidental findings (PMID: 23788249, 27854360). These guidelines include a list of genes, which may be updated periodically, that have been determined to be considered medically actionable and therefore laboratories should seek and report pathogenic variants in these genes. In accordance with an update to this policy statement (PMID: 25356965), there is the option to opt-out of receiving pathogenic variants if identified in the genes listed in ACMG policy statement.

Category II: Carrier Status. Carrier status for autosomal recessive conditions will include disorders recommended for reproductive screening by professional societies such as ACMG or ACOG, which includes: Cystic fibrosis (CFTR), Sickle cell anemia (S allele, HBB), Familial dysautonomia (IKBKAP), Tay-Sachs disease (HEXA), Canavan disease (ASPA), Fanconi anemia group C (FANCC), Niemann-Pick type A, B (SMPD1), Bloom syndrome (BLM), Mucolipidosis IV (MCOLN1), Gaucher disease Type I (GBA), Hemolytic anemia due to G6PD deficiency (G6PD* X-linked inheritance).

See the following pages for options regarding receipt of certain categories of results in the report.

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Biological Sex

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INFORMATION AND CONSENT FOR TESTING

Because medical information continues to advance, it is important to know that the interpretation of the variants is based on information available at the time of testing and may change in the future. As determined necessary by the laboratory the patient's sample will have certain findings confirmed by a second methodology (Sanger sequencing). The report will not include findings in genes causing adult onset dementia syndromes for which there is presently no prevention or cure. If the proband has a phenotype that clearly indicates such a disorder we recommend pursuing targeted testing based on phenotype and not WES testing. However, please note that if the patient has a clinical presentation that could indicate such a disorder or a mixed neurological phenotype, then results may be reported in the proband and the parents for genes that have an allelic association with dementia or dementia is a component of the phenotype. We expect to find hundreds of variations when comparing the DNA to the reference sequence, most of these do not relate to disease and therefore will not be reported. The raw sequence data generated by WES is available for request once a WES report has been issued. Please see our website for further information regarding this.

Additional reporting for Trio WES (test codes 1600, 1722, 1532, 1533)

As part of the Trio WES analysis, we will report findings in genes that have occurred in the affected individual, but not in the asymptomatic parents. This category of results caused by de novo findings may be significant in determining the cause of you/your child's medical condition. Thus, this category

BIOLOGICAL PARENTAL SAMPLES

TRIO (test codes 1600, 1722, 1532, 1533) As part of the Trio WES test, blood samples from the biological parents of the proband are required. Trio Whole Exome Sequencing (Trio WES) will be performed on the proband and parental samples concurrently and the sequence data will be analyzed in the context of the family relationships. The parental data will be used to help interpret the proband's data. A separate parental report will be issued regarding two categories of incidental findings. See the following pages for options regarding receipt of certain categories of results in the report, and see the previous sections "medically actionable" and "carrier status" for descriptions of these two categories.

of changes will be reported for genes with or without a known current association with disease. We will also report compound heterozygous or homozygous variants in genes where each parent has one change and the affected individual has inherited both changes, for genes with or without a known association with disease. It is important to note that the Trio WES report may contain information on diseases and genes that do not relate to your current condition, or may develop many years from now, or do not have any known link to disease, according to current knowledge.

Additional reporting for Proband WES (test codes 1500, 1530, 1531)

Date of Birth (MM / DD / YYYY)

We will also include variants in possible candidate disease genes that might potentially contribute to patient phenotype on the focused report. Further research studies are needed to clarify the clinical relevance of those variants/genes. Once the focused report is received, the expanded report can be ordered (no additional charge). The expanded report may contain information on diseases and genes that do not relate to your current condition, or may develop many years from now, or do not have any known link to disease, according to current knowledge. Information included in the expanded report is not Sanger confirmed (unless determined necessary by the laboratory). In discussion with your physician, the expanded report can be ordered for up to 6 months after the focused report is received, for no additional charge. A requisition for ordering the expanded report is available on our website.

PROBAND WES (test codes 1500, 1530, 1531) Biological parental samples are requested to facilitate interpretation of Proband WES results. The parental samples will NOT be tested by whole exome sequencing; instead they will be tested by targeted methods such as Sanger sequencing for changes in genes that are highly likely to be causative of disease (related to patient indication for testing) to confirm mode of inheritance, de novo status, etc. as determined necessary by the laboratory. Additionally, if opted-in to receive carrier status for reproductive screening and medically actionable findings, this information will be issued in a separate parental report. Testing of parental status for these categories of results will ONLY be initiated if there is a variant identified in the proband. See the following pages for options regarding receipt of certain categories of results in the report, and see the previous sections "medically actionable" and "carrier status" for descriptions of these two categories.

POTENTIAL RISKS AND DISCOMFORTS

(1) It is possible that you could have a variant in a gene included in the WES test, but the WES test was unable to detect the variant. Therefore, it is possible that you may be affected with one of the conditions tested by WES, but that the test did not detect the condition.

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(2) The WES test does not analyze 100% of the genes in the human genome. There are some genes that cannot be included in the test due to technical reasons.

 $(\mathbf{3})$ Results may be unclear or indicate the need for further testing on other family members.

- (4) It is possible that additional information may come to light during these studies regarding family relationships. For example, data may suggest that family relationships are not as reported, such as non-paternity (the father of the individual is not the biological father) or consanguinity (marriage or reproductive partners are blood relatives). Since the accurate assignment of family relationships is critical to the analysis of the WES, we may perform a separate genetic test to confirm that the samples that were submitted from the parents were correctly identified. If a discrepancy is identified, we will proceed with testing for the individual(s) who are correctly identified.
- (5) If you sign the consent form, but you no longer wish to have your sample tested by WES, you can contact your doctor to cancel the test. If testing is complete, but you have not received your results yet, you can inform your doctor that you no longer wish to receive the results. However, if you withdraw consent for testing after 5 p.m. the next business from the day of sample receipt by the laboratory, you will be charged for the full cost of the test.
- (6) The cumulative results of WES testing on many samples may be published in the medical literature to contribute knowledge to the medical profession. It is unlikely that these publications will include any information that will identify you personally.
- (7) Variants identified by WES may also be submitted to public databases, such as ClinVar, to contribute knowledge to the medical profession. Usually limited clinical information is also required for the submission. However, it is unlikely that contents of the database submissions will include any information that will identify you personally.
- (8) Due to the fact that many different genes and conditions are being analyzed, there is a risk that you will learn genetic information about yourself or your family that is not directly related to the reason for ordering the WES. This information might relate to diseases with symptoms that may develop in the future in yourself or other family members as well as conditions that have no current treatment.

Due to the complex nature of the WES testing it is recommended that families seek genetic counseling in conjunction with testing.

CONNECT

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Patient Last Na	Ime	Patient First Name	мі	//	Biological Sex
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INFORMATION	AND CONSENT	FOR TESTING			
PROBAND RE	PORTING OPTI	ONS AND AUTHORIZATION ······	· · · · · · - · · · · · · · · ·		
Please read the genic variants i	e below statemen in each option wil	ts carefully and check the appropriate box I be detected by the WES testing.	and initial. Due to the nature of	the methodology of this testing we are una	able to guarantee that all patho-
For Options 1 &	2: If neither box is	checked, or if form is not signed, the lab will	default to the NO/ do not report	option.	
INITIAL 1	. MEDICALLY AG	TIONABLE			
	Pathogenic va medically acti	riants in genes included in the ACMG policy onable on the WES report.	statement regarding recomme	ndations for reporting of incidental finding	s will be reported as
	O YES	Please report pathogenic variants in gen	es determined to be medically	actionable by the ACMG policy statement.	
	O NO	Please do NOT report pathogenic variant	s in genes included in the ACM	G policy statement.	
2	2. CARRIER STAT	US FOR AUTOSOMAL RECESSIVE CONDITION	INS RECOMMENDED FOR REPR	ODUCTIVE CARRIER SCREENING	
	O YES	Please report carrier status. By checking	this box, I choose to receive in	formation regarding carrier status.	
	O NO	Please do NOT report carrier status. By c	hecking this box, I choose to N	OT receive information regarding carrier st	atus.
For option 3: if r	neither box is cheo	ked, or the form is not signed, the lab will de	fault to the YES/ release updated	l report option.	
INITIAL 3	3. OPTION TO AL	LOW RELEASE OF UPDATED RESULTS			
	We may period made with this months, but is	lically review old cases when new informa s information we would like to issue an upd subject to change and does NOT include a	ion is learned regarding the si ated report to the physician wh complete review of all of your o	gnificance of changes in a particular gene. o ordered your WES test. The current sche lata.	If a possible diagnosis can be dule for this review is every six
	O YES	If new information is known regarding cl for you to issue an updated report to my	inical significance of informatic physician who ordered this WE	n that may not have previously been inclue S testing.	ded in my WES report I would like
	O NO	Please do NOT issue an updated report il previously reported.	there is new information rega	ding the clinical significance of my WES da	ata that may not have been
l hereby author	ize Baylor Geneti	cs to conduct genetic testing for myself (or	my child) for the Whole Exome	Sequencing test as recommended by my p	physician.
Printed Name			iapaturo		//
T Tinted Name		5			
Relationship to	Patient		roband Name		/ / Proband DOB (MM/DD/YY)
Physician's/Cou	unselor's Signatu	re			/ / Date (MM / DD / YYYY)
FOR SAMPLE	S SUBMITTED	FROM NEW YORK STATE			
INITIAL	Specimen Ret authorize the possible resea	ention: My sample shall be destroyed at the lab to retain my sample(s) for a longer rete arch testing.	end of the testing process or n ntion in accordance to the labo	not more than 60 days after completion of t ratory retention policy for internal laborate	esting. However, I hereby ry quality assurance studies and
					Consent authorization on next page



f	9	in	0

						/	/	
Patient Last I	Name		Patient First Name		MI	Date of Birth (MM / DI) / YYYY)	Biological Sex
INFORMATIO	ON AND CO	NSENT	FOR TESTING					
Trio WES: (test will be issued r information abo	codes 1600, 1 regarding the I out family me	722, 153: below two mber's re	2, 1533) We understand that our samples will categories of incidental findings. Testing of p sults based on the proband's or other family r	be subjected to Trio WE parental status for these nember's results. Turna	S, and will be analy e categories of resul around time to recei	zed to help interpret the seque ts will be initiated independen ve this report is up to 8 weeks	ence data of our child. A t of the proband's data.	separate parental report It may be possible to infer
Proband WES (which changes	test codes 150 will need par	10, 1530, ental stud	1531) We understand that our samples will be ies. Testing of parental status for the below th	e subjected to targeted t wo categories of incider	esting only (such as ntal findings will ON	Sanger sequencing) and will LY be initiated if there is a vari	NOT have WES testing. ant identified in the pro	The laboratory will decide band.
Please read the will be detected	e below staten d by the WES t	nents car esting. Fo	efully and check the appropriate box and initiar or options 1 & 2 below: if neither box is checke	al. Due to the nature of t d, or the form is not sig	he methodology of t ned, the lab will def	this testing we are unable to grault to the NO/ do NOT report (uarantee that all pathog option.	enic variants in each option
MATERNAL	REPORTIN	G OPT	ONS AND AUTHORIZATION ···		•••••			
INITIAL	1. MEDIC	ALLY AC	TIONABLE					
	Pathog medica	enic var Illy actio	iants in genes included in the ACMG po nable on the WES report.	licy statement regar	ding recommend	lations for reporting of inc	idental findings will	be reported as
	С	YES	Please report pathogenic variants in	genes determined to	be medically ac	tionable by the ACMG polic	cy statement.	
	С	NO	Please do NOT report pathogenic vari	ants in genes includ	led in the ACMG p	olicy statement.		
	2. CARRII	ER STAT	US FOR AUTOSOMAL RECESSIVE COND	ITIONS RECOMMENI	DED FOR REPROD	UCTIVE CARRIER SCREEN	ING	
	С	YES	Please report carrier status. By checl	king this box, I choos	e to receive infor	mation regarding carrier	status.	
	С	NO	Please do NOT report carrier status. I	By checking this box	, I choose to NOT	receive information regar	ding carrier status.	
			//	_ /				/ /
Mother's Prir	nted Name		Date of Birth (N	1M / DD / YYYY)	Mother's Sign	ature		Date (MM / DD / YYYY)
PATERNAL	REPORTIN	G OPTI	ONS AND AUTHORIZATION					
INITIAL	1. MEDIC	ALLY AC	TIONABLE					
	Pathog medica	enic var Illy actio	iants in genes included in the ACMG po mable on the WES report.	licy statement regar	ding recommend	lations for reporting of inc	idental findings will	be reported as
	С	YES	Please report pathogenic variants in	genes determined to	be medically ac	tionable by the ACMG polic	cy statement.	
	С	NO	Please do NOT report pathogenic vari	ants in genes includ	led in the ACMG p	olicy statement.		
	2. CARRII	ER STAT	US FOR AUTOSOMAL RECESSIVE COND	ITIONS RECOMMEN	DED FOR REPROD	UCTIVE CARRIER SCREEN	ING	
	С	YES	Please report carrier status. By checl	king this box, I choos	e to receive infor	mation regarding carrier	status.	
	С	NO	Please do NOT report carrier status. I	By checking this box	, I choose to NOT	receive information regar	ding carrier status.	
			1	1				/ /
Father's Prin	ited Name		Date of Birth (N	IM / DD / YYYY)	Father's Signa	ature		Date (MM / DD / YYYY)
FOR SAMPL	LES SUBMI	TTED F	ROM NEW YORK STATE					
MOTHER'S INITIAL	FATHEF INITIA	"S 	Specimen Retention: My sample s However, I hereby authorize the la laboratory quality assurance studi	hall be destroyed at b to retain my samp es and possible reso	the end of the tes le(s) for a longer earch testing.	sting process or not more retention in accordance to	than 60 days after c the laboratory rete	ompletion of testing. ntion policy for internal



			/ /		
Patient Last Name	Patient First Name	MI	Date of Birth (MM / DD / YY)	YY) Bio	ogical Sex
ADDITIONAL STUDIES - RESEARC	н				
The ordering physicain may be con other researchers would contact yo carefully and check the appropriate checked the lab will default to the "	acted regarding research opportunities of u directly regarding research studies that box. If the "YES"/contact option is chose NO"/ no contact option.	regarding your results/c at you may be eligible fo n please complete the a	ata. Additionally there may be in: r and may be of interest to you. P dditional information requested.	stances in which th lease read the follc Please note that if	e laboratory or wing statements neither box is
Baylor Gen UNITIAL Baylor Gen VES research s researcher	etics may share my contact information wi tudy for which I may be eligible for particip will only be provided with limited geneoty	th researchers who have ation. There is no obligati be and phenotype informa	a Baylor College of Medicine Institu on to participate if contacted. Other tion.	tional Review Board than the contact inf	(IRB) approved ormation below, the
Authorization and contact informati	on MUST be completed, or we will not be	able to reach you regar	ding these opportunities.		
AUTHORIZATION					
Printed Name	Signat	ure		Date (M	M / DD / YYYY)
				1	1
Relationship to Patient	Patien	t Name		Patient Date	of Birth (MM/DD/YY
CONTACT INFORMATION					
Phone #	Alternative Phone	#	Email		
Address		C	lity	State	Zip
Preferred Method of Contact:	Email 🗌 Mail 🗌	Phone			
	ish to be contacted regarding participation	in research studies.			