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# PLEASE SUBMIT THE FOLLOWING WITH REQUISITION FORM

☐ Statement of Medical Necessity (Signed by Physician)	
☐ Informed Consent Form (Signed by Pt & Physician)	
☐ SOAP & Progress Note (Signed by Physician)	
☐ Summary of Active Medications	
☐ Scanned Insurance Card Copy	

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	CARDIO-PULMO	NAKY IE	STING REQU	ISITION F	-ORM						
	PA	TIENT IN	IFORMATION								
Patient First Name		Patier	nt Last Name	Biological Sex F M							
Date of Birth (MM/DD/YYYY)	Phone Num	ıber			Email	Email Address					
Address			City	Zip							
Ethnicity: African American	n 🗌 Asian 🔲 Caucasia	an 🗌 Hisp	oanic 🗌 Jewish(As	hkenazi)	Portuguese	Other					
PATIENT INSU	RANCE INFORMATIO	N	SPECIMEN INFORMATION								
☐ Insurance ☐ Self-Pay ☐	Client Bill		Date Sample	e Collected	d (mm/dd/y	y) (required)					
Name of the insurance	Secondary Insurance	, If any	Medical Rec	ord#							
Insurance Policy/ID number	Name of the insured		☐ Buccal Sw	☐ Buccal Swab							
Insurance Group number	Date of Birth of Insure	ed	☐ ☐ Other (sp	ecify sourc							
ORDERI	NG PHYSICIAN/SEND	ING FAC	ILITY (Each Listed	l person will re	eceive a copy of	f the report)					
Facility Name (Facility Code):		Addre	ess:		City:						
State/Country :		Zip:			Phone:						
Ordering Licensed Provider Name	(Last, First)(Code)	NPI#		Phone		Fax/Email					
Additional Results Recipients	•										
Genetic Counselor or Other Medic	al Provider Name (Last, First)((	Code)		Phone/F							
Signature Required for Proce	ssing Medical Profession	al Signatu	ire:	·		Date:					
	STATEME	NT OF N	IEDICAL NEC	SSITY							
By submission of this test requisition and accompanying sample(s), I: (i) authorize and direct to perform the testing indicated; (ii) certify that the person listed as the ordering provider is authorized by law to order the test(s) requested; (iii) certify that any custom panel and/or ordered test(s) requested on this test requisition form are reasonable and medically necessary for the diagnosis and/or treatment of a disease, illness, impairment, symptom, syndrome or disorder; (iv) the test results will determine my patient's medical management and treatment decisions of this patient's condition on this date of service; (v) have obtained this patient's and relatives', when applicable, written informed consent to undergo any genetic testing requested; and (vi) that the full and appropriate diagnosis code(s) are indicated to the highest level of specificity.											
Signature of Provider (required)	ignature of Provider (required) Date:										
INDICATIONS FOR TEST	<b>TING</b> (CHECK ALL THAT APP	PLY)									

☐ Diagnostic ☐ Family history ☐ Positive or normal control ☐ Other......

Will Patient management be changed depending on the test results? ☐ Yes ☐ No

CLINICA	<b>L HISTORY</b> (PLEASE SU	IPPLY CLINIC NOTES A	AND PEDIGREE)
☐ No personal history of Cardiopulmonary disease			ory of chronic bronchitis? Yes No
Sudden Lungs Failur	Age first incident:	☐ Pulmonary edema? ☐ Family history of heart t	failure?  Yes No
History of Cardiopulmonary $\square$ Y $\square$ N Age at dx:		☐ cardiac arrhythmias? ☐	
Type(s) of Cardiopulmnary:			gs or belly area? 🔲 Yes 🔲 No
History of Arrhythmia ☐ Y ☐ N			e segregation of pulmonary emphysema? 🏻 Yes 🗖 No
Age at dx:		onset pulmonary emph	I-antitrypsin deficiency-related pulmonary emphysema or early nysema? ☐ Yes ☐ No
CLINICAL	NEODMATION (DETAILED	Diagnosed with cor pul	
	NFORMATION (DETAILED		
Is this person affected: ○ Yes ○ No Clinical diagnosis:  Reason for testing: ○ Diagnosis ○ Presymptomatic diagno			
Please check all that apply. This is not a substitute for submitt	ting clinical records.		
,			Abnormal boart marnhalagy
Diagnosis	Marfan/TAAD/HDCT		Abnormal heart morphology
O Amyloidosis	Aortic/Arterial aneurysm		Bicuspid aortic valve     Secretation of costs
○ ARVC	O Aortic/Arterial dissection		O Coarctation of aorta
O Brugada syndrome	Aortic root dilation		O Heart murmur
○ CPVT	<ul> <li>Arachnodactyly</li> </ul>		O Heterotaxy
○ DCM	<ul> <li>Arterial tortuosity/ectasia</li> </ul>		O Hypoplastic left heart
○ Ehlers-Danlos syndrome	○ Arthralgia		Mitral valve prolapse     Petent ductus exteriorus
○ HCM	Atypical scarring of skin		O Patent ductus arteriosus
○ HHT	Beighton score		O Patent foramen ovale
O Hypertension	•		Tetralogy of Fallot
O Loeys-Dietz syndrome	O Bifid uvula		O Ventricular septal defect
O LQT syndrome	O Blue sclerae		Atrial septal defect
	<ul> <li>Bruising susceptibility</li> </ul>		Other:
Noncompaction Cardiopulmonary (LVNC)	○ Cleft lip		PAH
Marfan syndrome	O Cleft palate		<ul> <li>Pulmonary hypertension</li> </ul>
○ PAH	<ul> <li>Craniosynostosis</li> </ul>		Cardiopulmonary
○ RCM	O Cutis laxa		O Chronic bronchitis
○ SQT syndrome	Dental crowding		O Chronic obstructive pulmonary disease (COPD)
O Sudden Cardiac Arrest	- 0		O Congestive heart failure
O Sudden Death	O Dural ectasia		○ Emphysema
Echocardiogram	<ul> <li>Ectopia lentis</li> </ul>		
O Aortic root dimensions:	<ul> <li>Flexion contracture</li> </ul>		Other
O Z-score:	O High palate		Abnormality of the periventricular white matter
	O Hollow organ rupture:		○ Angiokeratomas
		estinal perforation	○ Anhydrosis
O LVEDD:	O Other:	country perioration	○ Café-Au-Lait Macules
O Z-score:	_		O Hearing impairment:
O Max LV wall thickness:	O Hypertelorism		O Sensorineural O Conductive
○ Normal	<ul> <li>Joint contractures</li> </ul>		O Craniosynostosis
Report Included	<ul> <li>Joint dislocations</li> </ul>		O Cystic hygroma
ECG	<ul> <li>Joint hypermobility</li> </ul>		O Downslanted palpebral fissures
O Prolonged QTc interval:	<ul> <li>Meets Ghent criteria</li> </ul>		O Dysmorphic features:
Max QTc:	O Micrognathia / Retrognathia	(circle what applies)	Describe:
○ Normal	Midface retrusion		○ Elevated CPK
O Report Included	Mitral valve prolapse		O Hypotonia
Arrhythmia/Cardiopulmonary			Increase nuchal translucency
	O Myopia		Intellectual disability
Abnormal atrioventricular conduction     Atrial fibrillation	O Osteoarthritis		O Keratoconus
O Atrial fibrillation	<ul> <li>Pectus carinatum</li> </ul>		Muscle weakness
O Bradycardia	<ul> <li>Pectus excavatum</li> </ul>		O Myopathy
Fatty replacement of ventricular myocardial tissue	O Pes Planus		Renal insufficiency
O Heart transplant	<ul> <li>Pneumothorax</li> </ul>		O Short neck
○ Syncope	<ul> <li>Recurrent fractures</li> </ul>		○ Thromboembolism
O Torsades de pointe	<ul> <li>Retinal detachment</li> </ul>		O Type:
O Ventricular tachycardia	O Scoliosis/Kyphosis (circle wh	nat applies)	O Type:
HHT	O Skin findings, Specify:		-
O Arteriovenous malformation	O Stroke		
O Epistaxis	O Tall stature		
O Telangiectasia	O Velvety skin		
	5		
Dislipidemias  Athereselerasis			
O Atherosclerosis			
O Corneal Arcus			
○ LDL-C levels			
○ Xanthomatosis			
Other:			

Custom Car	dio-Pulmonar	y NGS Testing (Se	elect the	genes below) or			dio-Pulmo	onary NGS	Testing	g Panel (Test /	All Genes)			
					enomics Gen	_								
O ABCC9	O BGN	O COL2A1	O ELN	○ GJA5	O KCNJ5	_	MURC	O PLN		) SCN4B	O TGFBR2			
O ACTA2	O BMPR2 O BRAF	O COL3A1 O COL5A1	O EMD O ENG	<ul><li>○ GLA</li><li>○ GNB5</li></ul>	<ul><li>○ KCNJ8</li><li>○ KCNK3</li></ul>		MYBPC3 MYH11	O PLOD1 O PPA2		⊃ SCN5A ⊃ SGCD	O TMEM43 O TMPO			
O ACTO	O CACNA1C	O COLSAT	O ENG	O GNB5	O KCNK		игн г ИҮН6	O PPA2 O PRDM1		) SHOC2	O TMPO O TNNC1			
O ACTIVE	O CACNATO	O COL9A1	O FBLN5	_	O KRAS		MYH7	O PRDM1		) SKI	O TNNI3			
O ADAMTS2	O CACNB2	O COL9A2	O FBN1	O HER	O LAMA	_	MYL2	O PRKAG		SLC2A10	O TNNT2			
O AKAP9	O CALM1	O COL9A3	O FBN2	O HRAS	O LAMP	_	MYL3	O PRKG1		SLC39A13	O TNXB			
O ALDH18A1	O CALM2	O CRYAB	O FHL1	O ILK	O LDB3		MYL4	O PTPN11	. (	SMAD2	O TOR1AIP1			
O ALMS1	O CALM3	O CSRP3	O FKBP1	_	O LDLR	_	ИYLK	O PYCR1		SMAD3	O TPM1			
O ALPK3	O CASQ2	O CTNNA3	O FKRP	O JUP	O LDLRA	P1 0 I	MYLK2	O RAF1	(	⊃ SMAD4	O TRDN			
O ANK2	O CAV1	O DES	O FKTN	O KCNA5	O LMNA		MYOZ2	O RANGR	F (	⊃ SMAD9	O TRPM4			
O ANKRD1	O CAV3	O DMD	O FLNA	○ KCND3	O LOX		MYPN	O RASA1		⊃ SNTA1	O TTN			
O APOB	O CBS	O DOLK	○ F9	O KCNE1	O LRRC1	_	NEBL	O RBM20		O SOS1	O TTR			
O ATP6V0A2	O CHRM2	O DSC2	O FLNC	○ KCNE1L	O LTBP4		NEXN	O RIN2		C TAZ	O TXNRD2			
O ATP6V1E1	O CHST14	O DSE	O GAA	(KCNE5)	O MAP2	_	NKX2-5	O RIT1		⊃ TBX20 ⊃ TCAP	O VCL			
O ATP7A O B3GALT6	<ul><li>○ COL11A1</li><li>○ COL11A2</li></ul>	O DSG2 O DSP	O GATA	_	○ MAP2 ○ MAT2		NOTCH1 NRAS	O RYR2		) TECRL	O ZNF469			
O B3GAT3	O COLTTAZ	O DTNA	O GATA	_	O MAT2		PCSK9	O SCN10		TGFB2				
O B4GALT7	O COL1A1	O EFEMP2	O GATA		O MFAP	_	PDLIM3	O SCN2B		TGFB3				
O BAG3	O COL1A2	O EIF2AK4	O GDF2	O KCNJ2	O MIB1		PKP2	O SCN3B	(	TGFBR1				
				Pulmo	onary Genes									
O CCDC39	O CHRND		DNAI2			O NKX2-1	O RET	_	CNN1A	O SFTPC	O TERC			
O CCDC40	O CHRNE	_	DNAL1	_		Samn C	O RSPH		CNN1B	O SLC34A2	_			
O CFTR	O COLQ		) EDN3			O PARN	O RSPH		ERPINA1	O SLC6A5	O TINF2			
O CHAT	O CSF2RA	- I	EFEMP2		_	O PHOX2B	O RSPH	_	FTPA1	O SLC7A7	O TSC1			
O CHRNA1	O CSF2RB		ELMOD2			O PIH1D3	O RTEL	_	FTPA2	O SMPD1	O TSC2			
○ CHRNB1	O DKC1	O DNAI1 O	) ELN	O HPS1 (	O NF1	O RAPSN	O SCN4	4A ○ SI	FTPB	O STAT3	O ZEB2			
		ICI	D-10 [	DIAGNOSIS C	ODES WIT	'H DESC	RIPTIO	N						
				CardioGe	nomics Dise	ease		_						
☐ E78.4 - Other	Hyperlipidemia			I35.2 - Nonrheumatic										
1	lipidemia, unspec			I35.8 - Other Nonrhei				□ R60.9 -		•				
1	- osmolality and /	or hypernatremia		I35.9 - Nonrheumatio		isorder, unsp	ecified	□ R00.2 - I						
☐ G89.29 - Oth				[42.0 - dilated Cardio				1		ess of breath				
	ial (Primary) Hype			[42.5 - Other restricti [42.9 - Supraventricu		ar		1	R06.00 - Dyspnea, unspecified R06.09 - Other forms of dyspnea					
1	Primary) Hyperte rosclerotic heart d			142.9 - Junctional pre	•	ization		c breathing	•					
1	nary artery withou			149.2 - Junetional pre 148.0 - Paroxysmal at		ization		□ R06.83						
1	rosclerotic heart d			I48.2 - Chronic atrial						r abnormalities of breathing				
1		ut angina pectoris		I49.91 - Unspecified a				□ R07.9 - Chest pain, unspecified						
1	nic Cardiovascular			I49.8 - Other specifie		hmias		□ R07.2 - Precordial pain						
☐ I25.6 - Silent	Myocardial Ischen	nia		R00.1 - Bradycardia, ι	unspecified			☐ R07.82 - Intercostal pain ☐ R07.89 - Other chest pain						
1		ischemic heart disea		I50.9 - Heart Failure,				1		•				
		disease, unspecified		I50.21 - Acute systolic				☐ R94.31 - Nonspecific abnormal electrocardiogram (ECG)(EKG)						
1	eumatic mitral (va			150.22 - Chronic systo				□ Z79.01 - Long term (current) use of anticoagu						
1	eumatic mitral (va			I50.32 - Chronic diast I50.33 - Acute on chro				-	ncounter for preprocedural					
1	eumatic mitral (va	nitral valve disorders		I51.9 - Heart disease,		nigestive) ne	artialiule	201.010		ascular examina				
1		ilve disorder, unspeci	1 —	I52 - Other heart di	•	l elsewhere		□ Z01.812		iter for preproce				
1	eumatic aortic (Va			R55 - Syncope and	Collapse				laborate	ory examination	ıation			
1		alve) Insufficiency		R60.0 - Localized ede				□ Z01.818	- Encoun	iter for other				
		•		I0 E78.01 - Familial hy	percholesterole	emia			preprod	cedural examina	tion			
				Pulmonar	y Disease									
		er lobe, right bronchus o				ute bronchitis			/irus					
		per lobe, left bronchus o				ute bronchitis o								
1 *	•	dle lobe, bronchus or lui	-		1	ute bronchitis								
		er lobe, right bronchus			☐ J20.8-Acute bronchitis due to other specified organisms									
	ant Neoplasm of Iow brosis with pulmona	ver lobe, left bronchus o	n lung		☐ J20.9-Acute bronchitis, unspecified☐ J16.8-Pneumonia due to other specified infectious organisms									
☐ <b>G47.33-</b> Obstru		ry mannestations							Jigariisiiis					
1	Pulmonary Hyperten	sion			☐ J18.9-Pneumonia, unspecified organism☐ J40-Bronchitis, not specified as acute or chronic									
1		ary Disease with acute e	exacerbation	1	☐ J44.1-Obstructive chronic bronchitis, with (acute) exacerbation									
1		ary Disease with acute 6			☐ J44.1-Obstructive chronic bronchitis, with (acute) exacerbation									
1	Obstructive Pulmona	•			☐ J45.20-Mild Intermittent Asthma									
		oplasma pneumoniae			☐ J45.23-Mild Intermittent Asthma with status asthmaticus									
1	ronchitis due to Hem				☐ J45.31-Mild Persistent Asthma with acute exacerbation									
1	ronchitis due to coxs				☐ <b>J45.40</b> -Moderate persistent Asthma									
	ronchitis due to Para				☐ <b>J45.42-</b> Moderate persistent Asthma with status asthmaticus									
1	ronchitis due to respi ronchitis due to rhind	iratory syncytial virus			☐ <b>J45.21-</b> Mild Intermittent Asthma with acute exacerbation									
1	ronchitis due to mind ronchitis due to echo				□ 45.30-Mild Persistent Asthma □ 145.32-Mild Persistent Asthma with status asthmaticus									
		r specified organisms			☐ J45.32-Mild Persistent Asthma with status asthmaticus ☐ J45.41-Moderate persistent Asthma with acute exacerbation									
	onchitis unspecified	peeea organionio				evere persisten								
☐ <b>J28.0</b> -Acute pu	•					evere persisten								
□ <b>R06.02</b> -Shortn	•					evere persisten		n acute exacerl	bation					
□ <b>R06.2</b> -Sweezin						Unspecified as								
☐ <b>R07.1-</b> Chest pa	ain on breathing				☐ <b>J44.9</b> -Ch	ronic obstructi	ve pulmonary	disease, unsp	ecified	Continue	ed To Next Page			

□ R07.81-Pleurodynia	☐ <b>J90-</b> Pleural effusion, not elsewhere classified
□ J45.20 Mild Intermittent Asthma	□ <b>J98.11-</b> Atelectasis
☐ J45.23-Mild Intermittent Asthma with status asthmaticus	☐ <b>J98.19</b> -Other pulmonary collapse
☐ J45.31-Mild Persistent Asthma with acute exacerbation	☐ <b>J98.2-</b> Interstitial emphysema
☐ <b>J45.40-</b> Moderate persistent Asthma	☐ <b>J81.0</b> -Acute pulmonary edema
☐ <b>J45.42-</b> Moderate persistent Asthma with status asthmaticus	☐ <b>J95.84-</b> Transfusion related acute lung injury (TRALI)
☐ J45.21-Mild Intermittent Asthma with acute exacerbation	☐ <b>J96.00</b> -Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
☐ <b>J45.30</b> -Mild Persistent Asthma	☐ <b>J96.0-</b> Acute respiratory failure
☐ <b>J45.32-</b> Mild Persistent Asthma with status asthmaticus	☐ <b>J96.02</b> -Acute respiratory failure with hypercapnia
☐ <b>J45.41-</b> Moderate persistent Asthma with acute exacerbation	☐ <b>J98.4</b> -Other disorders of lung
☐ <b>J45.52-</b> Servere persistent Asthma with status asthmaticus	☐ <b>J96.10-</b> Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
☐ <b>J45.50</b> -Servere persistent Asthma	☐ <b>J96.11-</b> Chronic respiratory failure with hypoxia
☐ <b>J45.51-</b> Servere persistent Asthma with acute exacerbation	☐ <b>J96.12-</b> Chronic respiratory failure with hypercapnia
R22.2-Localized swelling, mass and lump, trunk	☐ <b>J96.20-</b> Acute/Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
□ R09.02 Hypoxemia	☐ <b>J96.21-</b> Acute/Chronic respiratory failure with hypoxia
R91.8-Nonspecific abnormal finding of lung field in diagnostic imaging	☐ <b>J96.22</b> -Acute/Chronic respiratory failure with hypercapnia
□ <b>R94.2</b> -Abnormal results of pulmonary function studies	☐ <b>J98.4</b> -Other disorders of lung
☐ A41.9-Sepsis, unspecified organism Malignant neoplasm of trachea, bronchus, lung	□ N17.9-Acute kidney failure, unspecified
□ C33-Trachea	□ <b>R06.02-</b> Shortness of breath
☐ C34.00-Unspecified main bronchus	□ <b>R06.2-</b> Wheezing
☐ C34.10-Upper lobe unspecified bronchus or lung	□ <b>R09.89</b> -Other specified symptoms and signs involving the circulatory and respiratory systems
□ C34.2-Middle lobe bronchus or lung	□ <b>R05-</b> Cough
☐ C34.30-Lower lobe bronchus or lung	R07.1-Chest pain on breathing
☐ <b>C34.80</b> -Overlapping sites of unspecified bronchus or lung	□ <b>R07.81</b> -Pleurodynia
□ <b>E84.0</b> -Cystic fibrosis with pulmonary manifestation	☐ <b>R22.2-</b> Localized swelling, mass and lump, trunk (chest mass)(localized swelling of chest)
☐ <b>G47.33-</b> Obstructive sleep apnea (adult) (pediatric)	□ <b>R91.8-</b> Other nonspecific abnormal finding of lung field(lung mass)
☐ <b>126.99-</b> Other pulmonary embolism without acute corpulmonale	□ <b>R91.1</b> -Solitary pulmonary nodule
□ <b>I27.0</b> -Primary pulmonary hypertension	□ <b>R91.8-</b> Other nonspecific abnormal finding of lung field
□ <b>195.9</b> -Hypotension, unspecified	☐ <b>R94.2</b> -Abnormal results of pulmonary function studies
☐ <b>J20.0-</b> Acute bronchitis due to Mycoplasma pneumoniae	□ <b>R09.02-</b> Hypoxemia
☐ <b>J20.0</b> -Acute bronchitis due to Mycoplasma pneumoniae	☐ <b>J98.4</b> -Other disorders of lung
☐ <b>J20.1-</b> Acute bronchitis due to Hemophilius influenzae	☐ <b>R65.20-</b> Severe sepsis without septic shock (sequence the underlying infection first)
☐ <b>J20.2-</b> Acute bronchitis due to streptococcus	□ <b>Z85.118-</b> Personal history of malignant neoplasm of bronchus and lung
☐ <b>J20.3</b> -Acute bronchitis due to coxsackievirus	☐ <b>Z79.01-</b> Long-term (current) use of anticoagulants
☐ <b>J20.4</b> -Acute bronchitis due to parainfluenza virus	
Additional ICD10 codes:	

# INFORMED CONSENT

For the purposes of this consent, "I", "my", and "your" will refer to me or to my child, including my unborn child, if my child is the person for whom the healthcare provider has ordered testing.

**PURPOSE OF THIS TEST** - The purpose of this test is (a) to see if I may have a genetic variant or chromosome rearrangement causing a genetic disorder; or (b) to evaluate the chance that I will develop or passon a genetic disorder in the future. If I already know the specific gene variant(s) or chromosome rearrangement that causes the genetic disorder in my family, I agree to inform the laboratory of this information.

#### WHAT TYPE OF TEST RESULTS CAN I EXPECT FROM GENETIC TESTING?

- 1. Positive: A change in your DNA was found, which is very likely the cause of your features/symptoms. This is the most straightforward test result, which can be used as the basis to test other family members to determine their chances of having either the disease or a child with the disease.
- 2. Negative: No variants were found to explain your symptoms. This does not mean that you do not have a genetic condition. It is still possible that there is a genetic variant not found by the test that was ordered. Your healthcare provider or genetic counselor may discuss more testing either now or in the future.
- 3. Variant of Uncertain Significance (VUS): A change in a gene was found. However, we are not sure whether this variant is the cause of your symptoms/features. More information is needed. We may suggest testing other family members to help figure out the meaning of the test result.
- 4. Unexpected Results: In rare instances, this test may reveal an important genetic change that is not directly related to the reason for ordering this test. For example, this test may find you are at risk for another genetic condition I am not aware of or it may indicate differences in the number or rearrangement of sex chromosomes. We may disclose this information to the ordering healthcare provider if it likely affects medical care. Because medical and scientific knowledge is constantly changing, new information that becomes available may supplement the information **Elite Clinical Laboratory** used to interpret my results.

Healthcare providers can contact Elite Clinical Laboratory at any time to discuss the classification of an identified variant.

## WHAT IS TRIO/DUO-BASED GENETIC TESTING?

For some genetic tests, including samples from the biological parents and/or other biological relatives along with the patient's sample can help with the interpretation of the test results. These tests are often referred to as "trio tests" since they typically include samples from the patient and both parents. Samples from relatives should be submitted with the patient's sample. Clinical information must be provided for the patient and any relative who submits a sample.

I understand that **Elite Clinical Laboratory** will use the relative sample(s) when needed for the interpretation of my test results and that my test report may include clinical and genetic information about arelative when it is relevant to the interpretation of the test results. I further understand that relatives will not receive an independent analysis of data nor a separate report.

## RISKS AND LIMITATIONS OF GENETIC TESTING

- 1. In some cases, testing may not identify a genetic variant even though one exists. This may be due to limitations in current medical knowledge or testing technology.
- 2. Accurate interpretation of test results may require knowing the true biological relationships in a family. I understand that if I fail to accurately state the biological relationships in my family, it could lead to incorrect interpretation of the test results, incorrect diagnoses, and/or inconclusive test results. If genetic testing reveals that the true biological relationships in a family are not as I reported them, including non-paternity (the reported father is not the biological father) and consanguinity (the parents are related by blood), I agree to have these findings reported to the healthcare provider who ordered the test.
- 3. Although genetic testing is highly accurate, inaccurate results may occur. These reasons include, but are not limited to mislabeled samples, inaccurate reporting of clinical/medical information, rare technical errors, or other reasons.
- 4. I understand that this test may not detect all of the long-term medical risks that I might experience. The result of this test does not guarantee my health and that additional diagnostic tests may still need to be done.
- 5. I agree to provide an additional sample if the initial sample is not adequate.

### PATIENT CONFIDENTIALITY AND GENETIC COUNSELING

It is recommended that I receive genetic counseling before and after having this genetic test. I can find a genetic counselor in my area at www.nsgc.org. Further testing or additional consultations with a healthcare provider may be necessary.

To maintain confidentiality, test results will only be released to the referring healthcare provider, the ordering laboratory, to me, to other healthcare providers involved in my care, diagnosis and treatment, or to others with my consent or as permitted or required by law. Federal laws prohibit unauthorized disclosure of this information. More information can be found at: www.genome.gov/10002077

#### **INTERNATIONAL SAMPLES**

If I reside outside the United States, I attest that by providing a sample for testing, I am not knowingly violating any export ban or other legal restriction in the country of my residence.

#### **SAMPLE RETENTION**

After testing is complete, my sample may be de-identified and be used for test development and improvement, internal validation, quality assurance, and training purposes. **Elite Clinical Laboratory** will not return DNA samples to you or to referring healthcare providers, unless specific prior arrangements have been made. I understand that samples from residents of New York State will not be included in the de-identified research studies described in this authorization and will not retain them for more than 60 days after test completion, unless specifically authorized by my selection. The authorization is optional, and testing will be unaffected if I do not check the box for the New York authorization language. **Elite Clinical Laboratory** will not perform any tests on the biological sample other than those specifically authorized.

#### **DATABASE PARTICIPATION**

De-identified health history and genetic information can help healthcare providers and scientists understand how genes affect human health. Sharing this de-identified information helps healthcare providers to provide better care for their patients and researchers to make new discoveries. **Elite Clinical Laboratory** shares this type of information with healthcare providers, scientists, and healthcare databases. **Elite Clinical Laboratory** will not share any personally identifying information and will replace the identifying information with a unique code not derived from any personally identifying information. Even with a unique code, there is a risk that I could be identified based on the genetic and health information that is shared. **Elite Clinical Laboratory** believes that this is unlikely, though the risk is greater if I have already shared my genetic or health information with public resources, such as genealogy websites.

# **INFORMED CONSENT**

#### **EXOME/GENOME SEQUENCING SECONDARY FINDINGS**

Applicable Only for Full Exome Sequencing and Genome Sequencing Tests.
 Does not pertain to Xpanded® or Slice tests

As many different genes and conditions are analyzed in an exome or genome sequencing test, these tests may reveal some findings not directly related to the reason for ordering the test. Such findings are called "incidental" or "secondary" and can provide information that was not anticipated.

Secondary findings are variants, identified by an exome or genome sequencing test, in genes that are unrelated to the individual's reported clinical features.

The American College of Medical Genetics and Genomics (ACMG) has recommended that secondary findings identified in a specific subset of medically actionable genes associated with various inherited disorders be reported for all probands undergoing exome or genome sequencing. Please refer to the latest version of the ACMG recommendations for reporting of secondary findings in clinical exome and genome sequencing for complete details of the genes and associated genetic disorders. Reportable secondary findings will be confirmed by an alternate test method when needed.

**WHAT WILL BE REPORTED FOR THE PATIENT?** - All pathogenic and likely pathogenic variants associated with specific genotypes identified in the genes (for which a minimum of 10X coverage was achieved by exome sequencing), as recommended by the ACMG.

WHAT WILL BE REPORTED FOR RELATIVES? - The presence or absence of any secondary finding(s) reported for the proband will be provided for all relatives analyzed by an exome or genome sequencing test.

**LIMITATIONS** - Pathogenic and/or likely pathogenic variants may be present in a portion of the gene not covered by this test and therefore are not reported. The absence of reportable secondary findings for any particular gene does not mean there are no pathogenic and/or likely pathogenic variants in that gene. Pathogenic variants and/or likely pathogenic variants that may be present in a relative, but are not present in the proband, will not be identified, or reported. Only changes at the sequence level will be reported in the secondary findings report. Larger deletions/duplications, abnormal methylation, triplet repeat or other expansion variants, or other variants not routinely identified by clinical exome and genome sequencing will not be reported.

**FINANCIAL AGREEMENT AND GUARANTEE** - For insurance billing, I understand and authorize **Elite Clinical Laboratory** to bill my health insurance plan on my behalf, to release any information required for billing, and to be my designated representative for purposes of appealing any denial of benefits. I irrevocably assign to and direct that payment be made directly to I understand that my out-of-pocket costs may be different than the estimated amount indicated to me by **Elite Clinical Laboratory** as part of a benefit investigation. I agree to be financially responsible for any and all amounts as indicated on the explanation of benefits issued by my health insurance plan. If my insurance provider sends a payment directly to me for services performed by **Elite Clinical Laboratory** on my behalf, I agree to endorse the insurance check and forward it to **Elite Clinical Laboratory** within 30 days of receipt as payment towards **Elite Clinical Laboratory** claim for services rendered.

## **MEDICARE**

A completed Advance Beneficiary Notice (ABN) is required for Medicare patients.

# **DIGITAL PATIENT LETTER CONSENT**

- Applicable Only for Commercial Insurance
- Estimate is provided by your health insurance company and therefore NO estimate will be sent for any orders placed with federal or state-funded insurance plans (e.g. Medicare, Medicaid, Tricare, etc.), institutional bill, or patient bill (self-pay).

To provide you with the estimated out-of-pocket expenses related to your test, **Elite Clinical Laboratory** will send you an email and/or text with the link to access your personalized Digital Patient Letter.

In order to send this information, we need your consent and agreement to the following items:

- 1. can use your email address or mobile phone number solely for the purpose of **Elite Clinical Laboratory** sending your estimated financial obligation. Text message data rates may apply. is not responsible for undelivered messages due to incorrect or illegible contact information.
- 2. will send you an email and/or text message containing a link to view your personalized Patient Letter that includes the test out-of-pocket estimate. The link is time-sensitive and will only be available for 72 hours from the time the message is sent. In order to view the estimate, you must click the link in the message.
- 3. If you take no action, **Elite Clinical Laboratory** will assume that you agree to move ahead with testing and will bill your health insurance. You can approve testing with insurance, switch to self-pay, or cancel the test via the link within the given 72-hour window. In turn, **Elite Clinical Laboratory** if receives your sample(s) and the billing method hasn't been changed, or the test hasn't been cancelled, we will move ahead with testing as ordered, and you will be responsible for any out-of-pocket costs for the completion of the test(s).

# Patient Signature

I hereby assign all rights and benefits under my health plan and all rights and obligations that I and my dependents have under my health plan to **Elite Clinical Laboratory** its assigned affiliates and authorized representatives for laboratory services furnished to me by **Elite Clinical Laboratory** I irrevocably designate, authorize and appoint **Elite Clinical Laboratory** or its assigned affiliates and their authorized representatives as my true and lawful attorney-in-fact for the purpose of submitting my claims, obtain a copy of my health plan document, Summary Plan Description, disclosure, appeal, litigation or other remedies in accordance with the benefits and rights under my health plan and in accordance with federal or state laws. If my health plan fails to abide by my authorization and makes payment directly to me, I agree to endorse the insurance check and forward it to **Elite Clinical Laboratory** immediately upon receipt. I hereby authorize **Elite Clinical Laboratory** its assigned affiliates and authorized representatives to contact me or my health Plan/administrator for billing or payment purposes by phone, text message, or email with the contact information that I have provided to **Elite Clinical Laboratory**, in compliance with federal and state laws. **Elite Clinical Laboratory**, its assigned affiliates and their authorized representatives may release to my health plan administrator, my employer, and my authorized representative my personal health information for the purpose of procuring payment of **Elite Clinical Laboratory** and for all the laboratory services. I understand the acceptance of insurance does not relieve me from any responsibility concerning payment for laboratory services and that I am financially responsible for all charges whether or not they are covered by my insurance.

Signature of Patient or Patient Representative / Relationship to Patient

Date:

# ORDERING PHYSICIAN SIGN HERE

Physician must only order tests that are medically necessory for the diagnosis or treatment of a patient

I attest that this test is medically necessary for the diagnosis or detection of a disease or disorder and that the results will be used in medical management and care decisions for the patient. Furthermore, all information on this Requisition Form is true to the best of my knowledge. I agree to provide the Care Plan notes and Letter of Intent for this order if the insurance requests the lab to gather the medical necessity for any reason

Ordering Physician Signature

Date: