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**PLEASE SUBMIT THE FOLLOWING WITH REQUISITION FORM**

- Letter 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

**CARDIO-PULMONARY TESTING REQUISITION FORM**

**PATIENT INFORMATION**

Patient First Name		Patient Last Name		Biological Sex <input type="checkbox"/> F <input type="checkbox"/> M	
Date of Birth (MM/DD/YYYY)	Phone Number		Email Address		
Address		City	State	Zip	
<b>Ethnicity:</b> <input type="checkbox"/> African American <input type="checkbox"/> Asian <input type="checkbox"/> Caucasian <input type="checkbox"/> Hispanic <input type="checkbox"/> Jewish(Ashkenazi) <input type="checkbox"/> Portuguese <input type="checkbox"/> Other					

**PATIENT INSURANCE INFORMATION**

**SPECIMEN INFORMATION**

<input type="checkbox"/> Insurance <input type="checkbox"/> Self-Pay <input type="checkbox"/> Client Bill		Date Sample Collected (mm/dd/yy) (required)	
Name of the insurance	Secondary Insurance, If any		
Insurance Policy/ID number	Medical Record#		
Insurance Group number	Name of the insured	<input type="checkbox"/> Buccal Swab <input type="checkbox"/> Other (specify source)	
	Date of Birth of Insured		

**ORDERING PHYSICIAN/SENDING FACILITY** (Each Listed person will receive a copy of the report)

Facility Name (Facility Code):		Address:		City:	
State/Country :		Zip:		Phone:	
Ordering Licensed Provider Name (Last, First)(Code)		NPI#	Phone		Fax/Email

**Additional Results Recipients**

Genetic Counselor or Other Medical Provider Name (Last, First)(Code)		Phone/Fax/Email
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**Signature Required for Processing Medical Professional Signature:**

**Date :**

**STATEMENT OF MEDICAL NECESSITY**

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)

Date:

**INDICATIONS FOR TESTING** (CHECK ALL THAT APPLY)

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

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

## CLINICAL HISTORY (PLEASE SUPPLY CLINIC NOTES AND PEDIGREE)

<input type="checkbox"/> No personal history of Cardiopulmonary disease Sudden Lungs Failur <input type="checkbox"/> Y <input type="checkbox"/> N (if yes): # Episodes:..... Age first incident:..... History of Cardiopulmonary <input type="checkbox"/> Y <input type="checkbox"/> N Age at dx:..... Type(s) of Cardiopulmonary:..... History of Arrhythmia <input type="checkbox"/> Y <input type="checkbox"/> N Age at dx:.....	Types (s) of Arrhythmia:..... <input type="checkbox"/> Family or personal history of chronic bronchitis? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Pulmonary edema? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Family history of heart failure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Family or personal history of a COPD? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> cardiac arrhythmias? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> History of right-sided heart failure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Collection of fluid in legs or belly area? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Diagnosed with Emphysema? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Family history show the segregation of pulmonary emphysema? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Diagnosed with alpha 1-antitrypsin deficiency-related pulmonary emphysema or early onset pulmonary emphysema? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Diagnosed with cor pulmonale? <input type="checkbox"/> Yes <input type="checkbox"/> No
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## CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED)

**Is this person affected:**  Yes  No Clinical diagnosis:.....

**Reason for testing:**  Diagnosis  Presymptomatic diagnosis  Carrier/Familial Variant Testing

Please check all that apply. This is not a substitute for submitting clinical records.

<b>Diagnosis</b> <input type="radio"/> Amyloidosis <input type="radio"/> ARVC <input type="radio"/> Brugada syndrome <input type="radio"/> CPVT <input type="radio"/> DCM <input type="radio"/> Ehlers-Danlos syndrome <input type="radio"/> HCM <input type="radio"/> HHT <input type="radio"/> Hypertension <input type="radio"/> Loeyes-Dietz syndrome <input type="radio"/> LQT syndrome <input type="radio"/> Noncompaction Cardiopulmonary (LVNC) <input type="radio"/> Marfan syndrome <input type="radio"/> PAH <input type="radio"/> RCM <input type="radio"/> SQT syndrome <input type="radio"/> Sudden Cardiac Arrest <input type="radio"/> Sudden Death <b>Echocardiogram</b> <input type="radio"/> Aortic root dimensions: _____ <input type="radio"/> Z-score: _____ <input type="radio"/> EF%: _____ <input type="radio"/> LVEDD: _____ <input type="radio"/> Z-score: _____ <input type="radio"/> Max LV wall thickness: _____ <input type="radio"/> Normal <input type="radio"/> Report Included <b>ECG</b> <input type="radio"/> Prolonged QTc interval: Max QTc: _____ <input type="radio"/> Normal <input type="radio"/> Report Included <b>Arrhythmia/Cardiopulmonary</b> <input type="radio"/> Abnormal atrioventricular conduction <input type="radio"/> Atrial fibrillation <input type="radio"/> Bradycardia <input type="radio"/> Fatty replacement of ventricular myocardial tissue <input type="radio"/> Heart transplant <input type="radio"/> Syncope <input type="radio"/> Torsades de pointe <input type="radio"/> Ventricular tachycardia <b>HHT</b> <input type="radio"/> Arteriovenous malformation <input type="radio"/> Epistaxis <input type="radio"/> Telangiectasia <b>Dislipidemias</b> <input type="radio"/> Atherosclerosis <input type="radio"/> Corneal Arcus <input type="radio"/> LDL-C levels _____ <input type="radio"/> Xanthomatosis <input type="radio"/> Other: _____	<b>Marfan/TAAD/HDCT</b> <input type="radio"/> Aortic/Arterial aneurysm <input type="radio"/> Aortic/Arterial dissection <input type="radio"/> Aortic root dilation <input type="radio"/> Arachnodactyly <input type="radio"/> Arterial tortuosity/ectasia <input type="radio"/> Arthralgia <input type="radio"/> Atypical scarring of skin <input type="radio"/> Beighton score _____ <input type="radio"/> Bifid uvula <input type="radio"/> Blue sclerae <input type="radio"/> Bruising susceptibility <input type="radio"/> Cleft lip <input type="radio"/> Cleft palate <input type="radio"/> Craniosynostosis <input type="radio"/> Cutis laxa <input type="radio"/> Dental crowding <input type="radio"/> Dural ectasia <input type="radio"/> Ectopia lentis <input type="radio"/> Flexion contracture <input type="radio"/> High palate <input type="radio"/> Hollow organ rupture: <input type="radio"/> Uterine rupture <input type="radio"/> Intestinal perforation <input type="radio"/> Other: _____ <input type="radio"/> Hypertelorism <input type="radio"/> Joint contractures <input type="radio"/> Joint dislocations <input type="radio"/> Joint hypermobility <input type="radio"/> Meets Ghent criteria <input type="radio"/> Micrognathia / Retrognathia (circle what applies) <input type="radio"/> Midface retrusion <input type="radio"/> Mitral valve prolapse <input type="radio"/> Myopia <input type="radio"/> Osteoarthritis <input type="radio"/> Pectus carinatum <input type="radio"/> Pectus excavatum <input type="radio"/> Pes Planus <input type="radio"/> Pneumothorax <input type="radio"/> Recurrent fractures <input type="radio"/> Retinal detachment <input type="radio"/> Scoliosis/Kyphosis (circle what applies) <input type="radio"/> Skin findings, Specify: _____ <input type="radio"/> Stroke <input type="radio"/> Tall stature <input type="radio"/> Velvety skin	<b>Abnormal heart morphology</b> <input type="radio"/> Bicuspid aortic valve <input type="radio"/> Coarctation of aorta <input type="radio"/> Heart murmur <input type="radio"/> Heterotaxy <input type="radio"/> Hypoplastic left heart <input type="radio"/> Mitral valve prolapse <input type="radio"/> Patent ductus arteriosus <input type="radio"/> Patent foramen ovale <input type="radio"/> Tetralogy of Fallot <input type="radio"/> Ventricular septal defect <input type="radio"/> Atrial septal defect <input type="radio"/> Other: _____ <b>PAH</b> <input type="radio"/> Pulmonary hypertension <b>Cardiopulmonary</b> <input type="radio"/> Chronic bronchitis <input type="radio"/> Chronic obstructive pulmonary disease (COPD) <input type="radio"/> Congestive heart failure <input type="radio"/> Emphysema <b>Other</b> <input type="radio"/> Abnormality of the periventricular white matter <input type="radio"/> Angiokeratomas <input type="radio"/> Anhidrosis <input type="radio"/> Café-Au-Lait Macules <input type="radio"/> Hearing impairment: <input type="radio"/> Sensorineural <input type="radio"/> Conductive <input type="radio"/> Craniosynostosis <input type="radio"/> Cystic hygroma <input type="radio"/> Downslanted palpebral fissures <input type="radio"/> Dysmorphic features: Describe: _____ <input type="radio"/> Elevated CPK <input type="radio"/> Hypotonia <input type="radio"/> Increase nuchal translucency <input type="radio"/> Intellectual disability <input type="radio"/> Keratoconus <input type="radio"/> Muscle weakness <input type="radio"/> Myopathy _____ <input type="radio"/> Renal insufficiency <input type="radio"/> Short neck <input type="radio"/> Thromboembolism <input type="radio"/> Type: _____
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<b>PATIENT VISIT HISTORY</b>	<b>Date of the Previous Patient Visit</b>	<b>Date of the Last Genetic Testing, if any</b>
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**CardioGenomics Genes**

- |                                |                                |                               |                              |                              |                               |                              |                              |                                |                                |
|--------------------------------|--------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|--------------------------------|
| <input type="radio"/> ABCC9    | <input type="radio"/> BGN      | <input type="radio"/> COL2A1  | <input type="radio"/> ELN    | <input type="radio"/> GJA5   | <input type="radio"/> KCNJ5   | <input type="radio"/> MURC   | <input type="radio"/> PLN    | <input type="radio"/> SCN4B    | <input type="radio"/> TGFB2    |
| <input type="radio"/> ACTA2    | <input type="radio"/> BMPR2    | <input type="radio"/> COL3A1  | <input type="radio"/> EMD    | <input type="radio"/> GLA    | <input type="radio"/> KCNJ8   | <input type="radio"/> MYBPC3 | <input type="radio"/> PLOD1  | <input type="radio"/> SCN5A    | <input type="radio"/> TMEM43   |
| <input type="radio"/> ACTC1    | <input type="radio"/> BRAF     | <input type="radio"/> COL5A1  | <input type="radio"/> ENG    | <input type="radio"/> GNB5   | <input type="radio"/> KCNK3   | <input type="radio"/> MYH11  | <input type="radio"/> PPA2   | <input type="radio"/> SGCD     | <input type="radio"/> TMPO     |
| <input type="radio"/> ACTN2    | <input type="radio"/> CACNA1C  | <input type="radio"/> COL5A2  | <input type="radio"/> EYA4   | <input type="radio"/> GPD1L  | <input type="radio"/> KCNQ1   | <input type="radio"/> MYH6   | <input type="radio"/> PRDM16 | <input type="radio"/> SHOC2    | <input type="radio"/> TNNC1    |
| <input type="radio"/> ACVRL1   | <input type="radio"/> CACNA2D1 | <input type="radio"/> COL9A1  | <input type="radio"/> FBLN5  | <input type="radio"/> HCN4   | <input type="radio"/> KRAS    | <input type="radio"/> MYH7   | <input type="radio"/> PRDM5  | <input type="radio"/> SKI      | <input type="radio"/> TNNI3    |
| <input type="radio"/> ADAMTS2  | <input type="radio"/> CACNB2   | <input type="radio"/> COL9A2  | <input type="radio"/> FBN1   | <input type="radio"/> HFE    | <input type="radio"/> LAMA4   | <input type="radio"/> MYL1   | <input type="radio"/> PRKAG2 | <input type="radio"/> SLC2A10  | <input type="radio"/> TNNT2    |
| <input type="radio"/> AKAP9    | <input type="radio"/> CALM1    | <input type="radio"/> COL9A3  | <input type="radio"/> FBN2   | <input type="radio"/> HRAS   | <input type="radio"/> LAMP2   | <input type="radio"/> MYL3   | <input type="radio"/> PRKG1  | <input type="radio"/> SLC39A13 | <input type="radio"/> TNXB     |
| <input type="radio"/> ALDH18A1 | <input type="radio"/> CALM2    | <input type="radio"/> CRYAB   | <input type="radio"/> FHL1   | <input type="radio"/> ILK    | <input type="radio"/> LDB3    | <input type="radio"/> MYL4   | <input type="radio"/> PTPN11 | <input type="radio"/> SMAD2    | <input type="radio"/> TOR1AIP1 |
| <input type="radio"/> ALMS1    | <input type="radio"/> CALM3    | <input type="radio"/> CSRP3   | <input type="radio"/> FKBP14 | <input type="radio"/> JPH2   | <input type="radio"/> LDLR    | <input type="radio"/> MYLK   | <input type="radio"/> PYCR1  | <input type="radio"/> SMAD3    | <input type="radio"/> TPM1     |
| <input type="radio"/> ALPK3    | <input type="radio"/> CASQ2    | <input type="radio"/> CTNNA3  | <input type="radio"/> FKRP   | <input type="radio"/> JUP    | <input type="radio"/> LDLRAP1 | <input type="radio"/> MYLK2  | <input type="radio"/> RAF1   | <input type="radio"/> SMAD4    | <input type="radio"/> TRDN     |
| <input type="radio"/> ANK2     | <input type="radio"/> CAV1     | <input type="radio"/> DES     | <input type="radio"/> FKTN   | <input type="radio"/> KCNA5  | <input type="radio"/> LMNA    | <input type="radio"/> MYOZ2  | <input type="radio"/> RANGRF | <input type="radio"/> SMAD9    | <input type="radio"/> TRPM4    |
| <input type="radio"/> ANKRD1   | <input type="radio"/> CAV3     | <input type="radio"/> DMD     | <input type="radio"/> FLNA   | <input type="radio"/> KCND3  | <input type="radio"/> LOX     | <input type="radio"/> MYPN   | <input type="radio"/> RASA1  | <input type="radio"/> SNTA1    | <input type="radio"/> TTN      |
| <input type="radio"/> APOB     | <input type="radio"/> CBS      | <input type="radio"/> DOLK    | <input type="radio"/> F9     | <input type="radio"/> KCNE1  | <input type="radio"/> LRRC10  | <input type="radio"/> NEBL   | <input type="radio"/> RBM20  | <input type="radio"/> SOS1     | <input type="radio"/> TTR      |
| <input type="radio"/> ATP6V0A2 | <input type="radio"/> CHRM2    | <input type="radio"/> DSC2    | <input type="radio"/> FLNC   | <input type="radio"/> KCNE1L | <input type="radio"/> LTBP4   | <input type="radio"/> NEXN   | <input type="radio"/> RIN2   | <input type="radio"/> TAZ      | <input type="radio"/> TXNRD2   |
| <input type="radio"/> ATP6V1E1 | <input type="radio"/> CHST14   | <input type="radio"/> DSE     | <input type="radio"/> GAA    | <input type="radio"/> KCNE5  | <input type="radio"/> MAP2K1  | <input type="radio"/> NKX2-5 | <input type="radio"/> RIT1   | <input type="radio"/> TBX20    | <input type="radio"/> VCL      |
| <input type="radio"/> ATP7A    | <input type="radio"/> COL11A1  | <input type="radio"/> DSG2    | <input type="radio"/> GATA4  | <input type="radio"/> KCNE2  | <input type="radio"/> MAP2K2  | <input type="radio"/> NOTCH1 | <input type="radio"/> RYR2   | <input type="radio"/> TCAP     | <input type="radio"/> ZNF469   |
| <input type="radio"/> B3GALT6  | <input type="radio"/> COL11A2  | <input type="radio"/> DSP     | <input type="radio"/> GATA5  | <input type="radio"/> KCNE3  | <input type="radio"/> MAT2A   | <input type="radio"/> NRAS   | <input type="radio"/> SCN10A | <input type="radio"/> TECRL    |                                |
| <input type="radio"/> B3GAT3   | <input type="radio"/> COL12A1  | <input type="radio"/> DTNA    | <input type="radio"/> GATA6  | <input type="radio"/> KCNH2  | <input type="radio"/> MED12   | <input type="radio"/> PCSK9  | <input type="radio"/> SCN1B  | <input type="radio"/> TGFB2    |                                |
| <input type="radio"/> B4GALT7  | <input type="radio"/> COL1A1   | <input type="radio"/> EFEMP2  | <input type="radio"/> GATAD1 | <input type="radio"/> (HERG) | <input type="radio"/> MFAP5   | <input type="radio"/> PDLIM3 | <input type="radio"/> SCN2B  | <input type="radio"/> TGFB3    |                                |
| <input type="radio"/> BAG3     | <input type="radio"/> COL1A2   | <input type="radio"/> EIF2AK4 | <input type="radio"/> GDF2   | <input type="radio"/> KCNJ2  | <input type="radio"/> MIB1    | <input type="radio"/> PKP2   | <input type="radio"/> SCN3B  | <input type="radio"/> TGFB1    |                                |

**Pulmonary Genes**

- |                              |                              |                              |                              |                             |                             |                              |                              |                                |                               |                             |
|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|--------------------------------|-------------------------------|-----------------------------|
| <input type="radio"/> CCDC39 | <input type="radio"/> CHRND  | <input type="radio"/> DNAAF1 | <input type="radio"/> DNAI2  | <input type="radio"/> FBLN5 | <input type="radio"/> HPS4  | <input type="radio"/> NKX2-1 | <input type="radio"/> RET    | <input type="radio"/> SCNN1A   | <input type="radio"/> SFTPC   | <input type="radio"/> TERC  |
| <input type="radio"/> CCDC40 | <input type="radio"/> CHRNE  | <input type="radio"/> DNAAF2 | <input type="radio"/> DNAL1  | <input type="radio"/> FLCN  | <input type="radio"/> ITGA3 | <input type="radio"/> NME8   | <input type="radio"/> RSPH3  | <input type="radio"/> SCNN1B   | <input type="radio"/> SLC34A2 | <input type="radio"/> TERT  |
| <input type="radio"/> CFTR   | <input type="radio"/> COLQ   | <input type="radio"/> DNAH1  | <input type="radio"/> EDN3   | <input type="radio"/> FOXF1 | <input type="radio"/> LTBP4 | <input type="radio"/> PARN   | <input type="radio"/> RSPH4A | <input type="radio"/> SERPINA1 | <input type="radio"/> SLC6A5  | <input type="radio"/> TINF2 |
| <input type="radio"/> CHAT   | <input type="radio"/> CSF2RA | <input type="radio"/> DNAH11 | <input type="radio"/> EFEMP2 | <input type="radio"/> GAS8  | <input type="radio"/> MECP2 | <input type="radio"/> PHOX2B | <input type="radio"/> RSPH9  | <input type="radio"/> SFTPA1   | <input type="radio"/> SLC7A7  | <input type="radio"/> TSC1  |
| <input type="radio"/> CHRNA1 | <input type="radio"/> CSF2RB | <input type="radio"/> DNAH5  | <input type="radio"/> ELMOD2 | <input type="radio"/> GLRA1 | <input type="radio"/> NAF1  | <input type="radio"/> PIH1D3 | <input type="radio"/> RTEL1  | <input type="radio"/> SFTPA2   | <input type="radio"/> SMPD1   | <input type="radio"/> TSC2  |
| <input type="radio"/> CHRNB1 | <input type="radio"/> DKC1   | <input type="radio"/> DNAI1  | <input type="radio"/> ELN    | <input type="radio"/> HPS1  | <input type="radio"/> NF1   | <input type="radio"/> RAPSN  | <input type="radio"/> SCN4A  | <input type="radio"/> SFTPB    | <input type="radio"/> STAT3   | <input type="radio"/> ZEB2  |

**ICD-10 DIAGNOSIS CODES WITH DESCRIPTION**

**CardioGenomics Disease**

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> E78.4 - Other Hyperlipidemia</li> <li><input type="checkbox"/> E78.5 - Hyperlipidemia, unspecified</li> <li><input type="checkbox"/> E87.1 - Hypo - osmolality and / or hypernatremia</li> <li><input type="checkbox"/> G89.29 - Other Chronic Pain</li> <li><input type="checkbox"/> I10 - Essential (Primary) Hypertension</li> <li><input type="checkbox"/> I0 - Essential (Primary) Hypertension</li> <li><input type="checkbox"/> I25.10 - Atherosclerotic heart disease of native coronary artery without angina pectoris</li> <li><input type="checkbox"/> I25.10 - Atherosclerotic heart disease of native coronary artery without angina pectoris</li> <li><input type="checkbox"/> I25.5 - Ischemic Cardiovascular</li> <li><input type="checkbox"/> I25.6 - Silent Myocardial Ischemia</li> <li><input type="checkbox"/> I25.89 - Other forms of chronic ischemic heart disease</li> <li><input type="checkbox"/> I25.9 - Chronic ischemic heart disease, unspecified</li> <li><input type="checkbox"/> I34.1 - Nonrheumatic mitral (valve) insufficiency</li> <li><input type="checkbox"/> I34.1 - Nonrheumatic mitral (valve) prolapse</li> <li><input type="checkbox"/> I34.2 - Nonrheumatic mitral (valve) stenosis</li> <li><input type="checkbox"/> I35.8 - Other nonrheumatic mitral valve disorders</li> <li><input type="checkbox"/> I34.9 - Nonrheumatic mitral valve disorder, unspecified</li> <li><input type="checkbox"/> I35.0 - Nonrheumatic aortic (Valve) stenosis</li> <li><input type="checkbox"/> I35.1 - Nonrheumatic aortic (Valve) Insufficiency</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> I35.2 - Nonrheumatic aortic (valve) stenosis with insufficiency</li> <li><input type="checkbox"/> I35.8 - Other Nonrheumatic aortic (valve) disorders</li> <li><input type="checkbox"/> I35.9 - Nonrheumatic aortic valve disorder, unspecified</li> <li><input type="checkbox"/> I42.0 - dilated Cardiovascular</li> <li><input type="checkbox"/> I42.5 - Other restrictive Cardiovascular</li> <li><input type="checkbox"/> I42.9 - Supraventricular tachycardia</li> <li><input type="checkbox"/> I49.2 - Junctional premature depolarization</li> <li><input type="checkbox"/> I48.0 - Paroxysmal atrial fibrillation</li> <li><input type="checkbox"/> I48.2 - Chronic atrial fibrillation</li> <li><input type="checkbox"/> I49.91 - Unspecified atrial fibrillation</li> <li><input type="checkbox"/> I49.8 - Other specified cardiac arrhythmias</li> <li><input type="checkbox"/> R00.1 - Bradycardia, unspecified</li> <li><input type="checkbox"/> I50.9 - Heart Failure, unspecified</li> <li><input type="checkbox"/> I50.21 - Acute systolic (congestive) heart failure</li> <li><input type="checkbox"/> I50.22 - Chronic systolic (congestive) heart failure</li> <li><input type="checkbox"/> I50.32 - Chronic diastolic (congestive) heart failure</li> <li><input type="checkbox"/> I50.33 - Acute on chronic diastolic (congestive) heart failure</li> <li><input type="checkbox"/> I51.9 - Heart disease, unspecified</li> <li><input type="checkbox"/> I52 - Other heart diseases classified elsewhere</li> <li><input type="checkbox"/> R55 - Syncope and Collapse</li> <li><input type="checkbox"/> R60.0 - Localized edema</li> <li><input type="checkbox"/> I0 E78.01 - Familial hypercholesterolemia</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> R60.1 - Generalized edema</li> <li><input type="checkbox"/> R60.9 - Edema, unspecified</li> <li><input type="checkbox"/> R00.2 - Palpitations</li> <li><input type="checkbox"/> R06.02 - Shortness of breath</li> <li><input type="checkbox"/> R06.00 - Dyspnea, unspecified</li> <li><input type="checkbox"/> R06.09 - Other forms of dyspnea</li> <li><input type="checkbox"/> PR06.3 - Periodic breathing</li> <li><input type="checkbox"/> R06.83 - Snoring</li> <li><input type="checkbox"/> R06.89 - Other abnormalities of breathing</li> <li><input type="checkbox"/> R07.9 - Chest pain, unspecified</li> <li><input type="checkbox"/> R07.2 - Precordial pain</li> <li><input type="checkbox"/> R07.82 - Intercostal pain</li> <li><input type="checkbox"/> R07.89 - Other chest pain</li> <li><input type="checkbox"/> R94.31 - Nonspecific abnormal electrocardiogram (ECG)(EKG)</li> <li><input type="checkbox"/> Z79.01 - Long term (current) use of anticoagulants</li> <li><input type="checkbox"/> Z01.810 - Encounter for preprocedural cardiovascular examination</li> <li><input type="checkbox"/> Z01.812 - Encounter for preprocedural laboratory examination</li> <li><input type="checkbox"/> Z01.818 - Encounter for other preprocedural examination</li> </ul> |
|--|--|--|

**Pulmonary Disease**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> C34.1-Malignant Neoplasm of upper lobe, right bronchus or lung</li> <li><input type="checkbox"/> C34.12-Malignant Neoplasm of upper lobe, left bronchus or lung</li> <li><input type="checkbox"/> C34.2-Malignant Neoplasm of Middle lobe, bronchus or lung</li> <li><input type="checkbox"/> C34.31-Malignant Neoplasm of lower lobe, right bronchus or lung</li> <li><input type="checkbox"/> C34.32-Malignant Neoplasm of lower lobe, left bronchus or lung</li> <li><input type="checkbox"/> E84.0-Cystic Fibrosis with pulmonary manifestations</li> <li><input type="checkbox"/> G47.33-Obstructive sleep apnea</li> <li><input type="checkbox"/> I27.0-Primary Pulmonary Hypertension</li> <li><input type="checkbox"/> J44.1-Chronic Obstructive Pulmonary Disease with acute exacerbation</li> <li><input type="checkbox"/> J44.1- Chronic Obstructive Pulmonary Disease with acute exacerbation</li> <li><input type="checkbox"/> J44.9-Chronic Obstructive Pulmonary disease NOS</li> <li><input type="checkbox"/> J20.0- Acute bronchitis due to Mycoplasma pneumoniae</li> <li><input type="checkbox"/> J20.1-Acute bronchitis due to Hemophilus influenzae</li> <li><input type="checkbox"/> J20.3-Acute bronchitis due to coxsackievirus</li> <li><input type="checkbox"/> J20.4-Acute bronchitis due to Parainfluenza virus</li> <li><input type="checkbox"/> J20.5-Acute bronchitis due to respiratory syncytial virus</li> <li><input type="checkbox"/> J20.6-Acute bronchitis due to rhinovirus</li> <li><input type="checkbox"/> J20.7-Acute bronchitis due to echovirus</li> <li><input type="checkbox"/> J20.8-Acute bronchitis due to other specified organisms</li> <li><input type="checkbox"/> J20.9-Acute bronchitis unspecified</li> <li><input type="checkbox"/> J28.0-Acute pulmonary Edema</li> <li><input type="checkbox"/> R06.02 -Shortness of Breath</li> <li><input type="checkbox"/> R06.2-Sneezing   R05-Cough</li> <li><input type="checkbox"/> R07.1-Chest pain on breathing</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> J20.5-Acute bronchitis due to respiratory syncytial virus</li> <li><input type="checkbox"/> J20.6-acute bronchitis due to rhinovirus</li> <li><input type="checkbox"/> J20.7-Acute bronchitis due to echovirus</li> <li><input type="checkbox"/> J20.8-Acute bronchitis due to other specified organisms</li> <li><input type="checkbox"/> J20.9-Acute bronchitis, unspecified</li> <li><input type="checkbox"/> J16.8-Pneumonia due to other specified infectious organisms</li> <li><input type="checkbox"/> J18.9-Pneumonia, unspecified organism</li> <li><input type="checkbox"/> J40-Bronchitis, not specified as acute or chronic</li> <li><input type="checkbox"/> J44.1-Obstructive chronic bronchitis, with (acute) exacerbation</li> <li><input type="checkbox"/> J44.1-Obstructive chronic bronchitis, with (acute) exacerbation</li> <li><input type="checkbox"/> J45.20-Mild Intermittent Asthma</li> <li><input type="checkbox"/> J45.23-Mild Intermittent Asthma with status asthmaticus</li> <li><input type="checkbox"/> J45.31-Mild Persistent Asthma with acute exacerbation</li> <li><input type="checkbox"/> J45.40-Moderate persistent Asthma</li> <li><input type="checkbox"/> J45.42-Moderate persistent Asthma with status asthmaticus</li> <li><input type="checkbox"/> J45.21-Mild Intermittent Asthma with acute exacerbation</li> <li><input type="checkbox"/> 45.30-Mild Persistent Asthma</li> <li><input type="checkbox"/> J45.32-Mild Persistent Asthma with status asthmaticus</li> <li><input type="checkbox"/> J45.41-Moderate persistent Asthma with acute exacerbation</li> <li><input type="checkbox"/> J45.52-Severe persistent Asthma with status asthmaticus</li> <li><input type="checkbox"/> J45.50-Severe persistent Asthma</li> <li><input type="checkbox"/> J45.51-Severe persistent Asthma with acute exacerbation</li> <li><input type="checkbox"/> J45.909-Unspecified asthma, uncomplicated</li> <li><input type="checkbox"/> J44.9-Chronic obstructive pulmonary disease, unspecified</li> </ul> |
|---|---|

- R07.81**-Pleurodynia
- J45.20** Mild Intermittent Asthma
- J45.23**-Mild Intermittent Asthma with status asthmaticus
- J45.31**-Mild Persistent Asthma with acute exacerbation
- J45.40**-Moderate persistent Asthma
- J45.42**-Moderate persistent Asthma with status asthmaticus
- J45.21**-Mild Intermittent Asthma with acute exacerbation
- J45.30**-Mild Persistent Asthma
- J45.32**-Mild Persistent Asthma with status asthmaticus
- J45.41**-Moderate persistent Asthma with acute exacerbation
- J45.52**-Severe persistent Asthma with status asthmaticus
- J45.50**-Severe persistent Asthma
- J45.51**-Severe persistent Asthma with acute exacerbation
- R22.2**-Localized swelling, mass and lump, trunk
- R09.02** Hypoxemia
- R91.8**-Nonspecific abnormal finding of lung field in diagnostic imaging
- R94.2**-Abnormal results of pulmonary function studies
- A41.9**-Sepsis, unspecified organism Malignant neoplasm of trachea, bronchus, lung
- C33**-Trachea
- C34.00**-Unspecified main bronchus
- C34.10**-Upper lobe unspecified bronchus or lung
- C34.2**-Middle lobe bronchus or lung
- C34.30**-Lower lobe bronchus or lung
- C34.80**-Overlapping sites of unspecified bronchus or lung
- E84.0**-Cystic fibrosis with pulmonary manifestation
- G47.33**-Obstructive sleep apnea (adult) (pediatric)
- I26.99**-Other pulmonary embolism without acute corpulmonale
- I27.0**-Primary pulmonary hypertension
- I95.9**-Hypotension, unspecified
- J20.0**-Acute bronchitis due to Mycoplasma pneumoniae
- J20.0**-Acute bronchitis due to Mycoplasma pneumoniae
- J20.1**-Acute bronchitis due to Hemophilus influenzae
- J20.2**-Acute bronchitis due to streptococcus
- J20.3**-Acute bronchitis due to coxsackievirus
- J20.4**-Acute bronchitis due to parainfluenza virus

- J90**-Pleural effusion, not elsewhere classified
- J98.11**-Atelectasis
- J98.19**-Other pulmonary collapse
- J98.2**-Interstitial emphysema
- J81.0**-Acute pulmonary edema
- J95.84**-Transfusion related acute lung injury (TRALI)
- J96.00**-Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
- J96.0**-Acute respiratory failure
- J96.02**-Acute respiratory failure with hypercapnia
- J98.4**-Other disorders of lung
- J96.10**-Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
- J96.11**-Chronic respiratory failure with hypoxia
- J96.12**-Chronic respiratory failure with hypercapnia
- J96.20**-Acute/Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
- J96.21**-Acute/Chronic respiratory failure with hypoxia
- J96.22**-Acute/Chronic respiratory failure with hypercapnia
- J98.4**-Other disorders of lung
- N17.9**-Acute kidney failure, unspecified
- R06.02**-Shortness of breath |
- R06.2**-Wheezing
- R09.89**-Other specified symptoms and signs involving the circulatory and respiratory systems
- R05**-Cough
- R07.1**-Chest pain on breathing
- R07.81**-Pleurodynia
- R22.2**-Localized swelling, mass and lump, trunk (chest mass)(localized swelling of chest)
- R91.8**-Other nonspecific abnormal finding of lung field(lung mass)
- R91.1**-Solitary pulmonary nodule
- R91.8**-Other nonspecific abnormal finding of lung field
- R94.2**-Abnormal results of pulmonary function studies
- R09.02**-Hypoxemia
- J98.4**-Other disorders of lung
- R65.20**-Severe sepsis without septic shock (sequence the underlying infection first)
- Z85.118**-Personal history of malignant neoplasm of bronchus and lung
- Z79.01**-Long-term (current) use of anticoagulants

**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 pass on 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 a relative 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](http://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](http://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 or a minimum of 15X coverage was achieved by genome 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 necessary 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: