

Cardiology Next Generation Sequencing



*Information required for testing						
Patient Information						
				MM/DD/YYYY		
LAST NAME*	FIRST NAME*		MI	DOB*	SEX	GENDER
ADDRESS	CITY	STATE	ZIPCODE	PHONE NUMBER		EMAIL ADDRESS
Billing Information (Please include a copy of in	nsurance card(s) fo	r billing pu	ırposes.)			
*□ CLIENT BILL □ INSURANCE □ SELF PAY □	MEDICARE/MEDI	CAID (P	RIMARY 🗆 SECONDA	ARY) RELATIONSHIP: ☐ SELF	□ SPOUSE	☐ DEPENDENT
INSURANCE NAME		ЛЕМВЕR/Р			GROUP :	
POLICY HOLDER NAME		CY HOLDER		TEST INDICATION/	ICD-10 CODE(S)*
Account Information						
FACILITY/PRACTICE NAME*	PHONE NUMBER	R	FAX NUMB	SER	ORDERING PI	HYSICIAN NAME*
Specimen Information PREFERRED SPECIMEN IS	S BUCCAL SWAB					
□ BLOOD IN EDTA (5ml MIN) □ BUCCAL SWAB □ D	NA (10 ug MIN)	COLLECT	TION DATE:	MM/DD/YYYY COLLECTION TIM	E:00:	00 AM/PM
Background Information (Please check all t	hat apply)					
RACE AND ETHNICITY: ☐ WHITE ☐ ASIAN ☐ HISPAI	NIC AFRICAN A	MERICAN	☐ ASHKENAZI JEWIS	SH OTHER (PLEASE SPECIFY):_		
GENE PANEL NAME* (Must choose at least one)	GENES **					
☐ CARDIOLOGY FULL PANEL (ALL 174 GENES LISTED BELOW)				G GENES BELOW OR LISTING		
☐ AORTOPATHY COMPREHENSIVE PANEL (24 GENES)	NOTCH1, SLC2A1	10, SMAD3,	SMAD4, TBX20, TGFB2,	COL5A1, COL5A2, EFEMP2, FBN1, FBN TGFB3, TGFBR1, TGFBR2		
☐ ARRHYTHMIA & CARDIOMYOPATHY COMPREHENSIVE PANEL (134 GENES)	ABCC9, ACTA1, ACTC1, ACTN2, AKAP9, ALMS1, ANK2, ANKRD1, BAG3, BRAF, CACNA1C, CACNA2D1, CACNB2, CALM1, CALR3, CASQ2, CAV3, CBL, CBS, COX15, CRYAB, CSRP3, CTF1, DES, DMD, DNAJC19, DOLK, DPP6, DSC2, DSG2, DSP, DTNA, EMD, EYA4, FHL1, FHL2, FKRP, FKTN, FXN, GAA, GATAD1, GJAS, GLA, GPD11, HCN4, HFE, HRAS, HSPB8, ILK, JPH2, JUP, KCNA5, KCND3, KCND3, KCNE1, KCNE2, KCNE3, KCNH2, KCNU2, KCNJ5, KCNJ8, KCNQ1, KLF10, KRAS, LAMA2, LAMA4, LAMP2, LDB3, LMNA, LTBP2, MAP2K1, MAP2K2, MIB1, MURC, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYO6, MYO2Z, MYPN, NEXN, NKX2-5, NPPA, NRAS, PDLIM3, PKP2, PLN, PRDM16, PKKAG2, PKKAR1A, PTPN11, RAF1, RANGRF, RBM20, RYR1, RYR2, SALL4, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SCO2, SEPN1, SDHA, SGCB, SGCD, SGCG, SHOC2, SLC25A4, SNTA1, SOS1, TAZ, TBX3, TBX5, TBX20, TCAP, TGFB3, TMEM43, TMPO, TNNC1, TNNI3, TNNT2, TPM1, TRDN, TRIM63, TRPM4, TTN, TTR, TXNRD2, VCL, ZBTB17					
☐ CONGENITAL HEART DISEASE PANEL (24 GENES)			RELD1, ELN, HRAS, JAG1 A, SHOC2, SOS1, TBX5, ZI	., KRAS, MAPK2K1, MAPK2K2, MYH6, N IC3	KX2-5, NODAL,	NOTCH1, NRAS,
☐ FAMILIAL HYPERCHOLESTEROLEMIA (15 GENES)	APOA4, APOA5,	APOB, CETP	, CREB3L3, GCKR, GPIHB	P1, HADHA, LDLR, LDLRAP1, LMF1, LPL	, PCSK9, SREBF2	, ZHX3
Patient Authorization and Consent It has been explained to me and I understand that I am volunt extracted from my specimen at GDI and the test will evaluate genes that are important for cardiac function. The test identif risk. The test is a clinical laboratory test and may aid in my tre health care provider who will inform me of the results. GDI wi that I am responsible for providing accurate information abou my insurance. However, I understand that charges that are no charges promptly. Patient/Guardian Signature:*	how my genome vari ies the most commor atment plan; therefo Il keep all of my medi it my insurance to Ge	iations may n variants of re, I or my h ical informa nesys Diagn	lead to a higher risk for o these genes but is not c ealth insurer will be bille tion confidential and onl ostics Inc. I understand t	cardiac disorders. The GDI test will lool lesigned to identify some rare mutatio ed for this test. A written report of the ly disclose it to pursuant to applicable set that Genesys Diagnostics Inc. will be pr ayments and deductibles are my respon	ofor common go ns which may al test results will state and federa coviding testing s	enetic variations in so affect cardiac be provided to my I laws. I understand service and billing
☐ I do not consent to having my deidentified DNA sample used for internal research purposes.						
Healthcare Provider Authorization I certify that (i) this test is medically necessary, (ii) the patient written authorization when required by law) to have this testi provide Genesys, or its designee, any and all additional inform	ng performed, and (ii	i) the inforn	ned consent obtained fro	om the patient meets the requirement		
Healthcare Provider Signature:*				Da	te:*	

Medical Necessity Statement: Tests ordered on Medicare patients must follow CMS rules regarding medical necessity and FDA approval guidelines and must include diagnosis, symptoms and reason for testing as indicated in the medical record. If testing does not come under Medicare guidelines for payment a 'signed' Advanced Beneficiary Notice must be included.

^{**}Certain regions in various genes have poor coverage and are not included in the panel (if you would like more coverage information regarding any specific genes of interest, please contact Genesys Diagnostics Inc.). All genes that have pseudogenes will have poorer performance on the MiSeq instrument. Variants in genes with pseudogenes may not be reliably detected. DNA alterations in regions not covered by this test such as deep intronic or regulatory regions, or in poorly covered regions will not be detected using Next Generation Sequencing analysis. There are technical limitations on the ability of Next Generation Sequencing to detect small insertions and deletions and these types of alterations are not detected as reliably as single nucleotide variants. This assay is not designed or validated for the detection of low-level mosaicism or somatic mutations.



Cardiology Next Generation Sequencing



Patient Name	Patient DOB
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	DISEASE/CONDITION	ı	SELF (Circle Response)	RELATIVES (Indicate Maternal or Paternal side)	AGE AT DIAGNOSIS		
Irregular hear	tbeat		Yes / No				
Cardiac muscle thickening or thinning		Yes / No					
Amyloidosis			Yes / No				
Disease of the	aorta		Yes / No				
Connective Tis	ssue Disorder		Yes / No				
Noonan Syndr	ome		Yes / No				
High cholester	rol		Yes / No				
Congenital he	art disease		Yes / No				
Heart attack			Yes / No				
Cardiac arrest			Yes / No				
Heart transpla	int		Yes / No				
Hardening and	d narrowing of the arteries	5	Yes / No				
Implantable ca	ardioverter defibrillator		Yes / No				
High blood pre	essure		Yes / No				
High triglyceri	des		Yes / No				
Fainting during exercise		Yes / No					
Fainting durin	g normal activity		Yes / No				
Problems with	exercise		Yes / No				
Sudden unexp	Sudden unexpected death without a known cause		Not applicable				
Muscle weakness or muscle disorders (such as muscular dystrophy)		Yes / No					
Any other chronic or genetic diseases that run in your family:		Yes / No					
Any other cardiovascular condition not mentioned above:		Yes / No					
PREVIOUS C	SENETIC TESTING						
If genetic testi	ing HAS been done please	fill out table bel	OW	Check here if NO genetic testi	ng has been done		
Gene:	RefSeq#:	Varian	t:	Genebank Reference #:	Genebank Reference #:		
Gene:	RefSeq#:	Varian	t:	Genebank Reference #:	Genebank Reference #:		
Gene: RefSeq#: Variant:		t:	Genebank Reference #:				
(Provide HGVS	Nomenclature or indicat	e if other)					
Proband Name: DOB (MM/DD/)/YYY):	Lab or clinic Family #:	Lab or clinic Family #:			
Relationship to	o Patient·	1					

ICD-10 CODES*					
□I49.9	Cardiac arrhythmia, unspecified.	□I46	Cardiac arrest		
□I42.9	Cardiomyopathy, unspecified	□Z94.1	Heart transplant status		
□E85.9	Amyloidosis, unspecified	□I70	Atherosclerosis		
□L94.9	Localized connective tissue disorder, unspecified.	□Z95.810	Presence of automatic (implantable) cardiac defibrillator		
□Q87.19	Other congenital malformation syndromes predominantly associated with short stature	□I10	Hypertensive diseases		
□E78.5	Hyperlipidemia, unspecified	□E78.1	Pure hyperglyceridemia		
□Q24.9	Congenital malformation of heart, unspecified	□R55	Syncope and collapse		
□I21	Acute myocardial infarction				