





Results reported

6,437 patient-participants have received results* from the Genomic Screening and Counseling Program

For the latest results, see geisinger.org/MyCode-results.

December 1, 2025





350,000+ participants have made the success of MyCode possible

Risk Condition 	Patients per condition 	Gene 	Patients per gene 
Cardiovascular risk			
Familial hypercholesterolemia^s (early heart attacks and strokes)	823	APOB	284
		LDLR	539
Hereditary transthyretin amyloidosis (buildup of amyloid in the body, can lead to heart and nervous system disease)	261	TTR	261
Heritable thoracic aortic disease (genetic predisposition to weakening of the wall of the aorta, leading to swelling and sometimes rupture)	59	ACTA2	59
Inherited arrhythmias (irregular heartbeat with risk for cardiac arrest)	464	KCNH2	50
		KCNQ1	261
		SCN5A	153
Inherited cardiomyopathies (diseases of the heart muscle with dangerous complications)	1,296	BAG3	2
		DSC2	46
		DSG2	79
		DSP	101
		FLNC	60
		LMNA	26
		MYBPC3	250
		MYH7	100
		MYL2	10
		MYL3	8
		PKP2	97
		PRKAG2	3
		RBM20	1
		TNNI3	35
		TNNT2	10
		TPM1	6
		TTN	462

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MyCode® results reported (continued)





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Risk Condition 	Patients per condition 	Gene 	Patients per gene 
Cancer risk			
Familial adenomatous polyposis (intestinal polyps and early colon cancer)	73	APC	73
Hereditary breast and ovarian cancer^s (early breast, ovarian, prostate, pancreatic and other cancers)	1,171	BRCA1 BRCA2	416 755
Hereditary pheochromocytomas and paragangliomas (tumors that can release extra hormones and, rarely, become cancer)	133	SDHAF2 SDHB SDHC SDHD TMEM127	13 58 22 11 29
Li-Fraumeni syndrome (early breast, soft tissue, brain, adrenal and other cancers)	30	TP53	30
Lynch syndrome^s (early colon, uterine and other cancers)	656	MLH1 MSH2 MSH6 PMS2	56 38 283 279
Multiple endocrine neoplasia type 1 (tumors that can release extra hormones and, rarely, become cancer)	19	MEN1	19
Multiple endocrine neoplasia type 2 (early thyroid cancer)	144	RET	144
MUTYH-associated polyposis (intestinal polyps and early colon cancer)	10	MUTYH	10
Neurofibromatosis, type 2 (noncancerous tumors in nervous system)	1	NF2	1
PALB2-related cancer risk (early onset breast, pancreatic, and ovarian cancers)	175	PALB2	175
Peutz-Jeghers syndrome (early breast, colon, pancreatic and other cancers)	2	STK11	2
Retinoblastoma (early eye cancer)	7	RB1	7

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Cancer risk <small>(continued)</small>			
Von Hippel-Lindau syndrome (early kidney cancer and benign tumors of the brain, eye, pancreas and adrenal gland)	4	VHL	4
Wilms tumor (malignant kidney tumor)	3	WT1	3
Miscellaneous phenotypes			
Biotinidase deficiency (buildup of a B vitamin in the body, can cause issues with the nervous system)	3	BTB	3
Fabry disease (enzyme defect leading to damage of blood vessels in the skin and cells in the kidneys, heart, and nervous system)	11	GLA	11
Hereditary hemochromatosis (too much iron in blood, can lead to liver and heart problems)	648	HFE	648
Hereditary hemorrhagic telangiectasia (abnormal blood vessel formation in skin, mucous membranes, lungs, liver and brain)	60	ACVRL1	20
		ENG	40
Juvenile polyposis (intestinal polyps, cancer of the intestine, including colon)	5	BMPT1A	5
Juvenile polyposis / hereditary hemorrhagic telangiectasia (intestinal polyps, cancer of the intestine, including colon/abnormal blood vessel formation in skin, mucous membranes, lungs, liver & brain)	5	SMAD4	5
Loeys-Dietz syndrome (weakening of the wall of the aorta, leading to swelling and sometimes rupture)	13	SMAD3	7
		TGFBR1	2
		TGFBR2	4
Malignant hyperthermia (life-threatening condition usually triggered by exposure to certain drugs used for general anesthesia)	296	RYR1	296
Marfan syndrome (connective tissue disease that can cause heart, eye, and skeletal problems)	32	FBN1	32

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Miscellaneous phenotypes <small>(continued)</small>			
Maturity-onset diabetes of the young (MODY) (Diabetes in the teens or early adulthood)	15	HNF1A	15
Ornithine transcarbamylase deficiency (buildup of ammonia in the blood, can cause altered mental status and seizures)	4	OTC	4
Pompe disease (buildup of glycogen which could cause muscle problems throughout the body)	14	GAA	14
PTEN hamartoma tumor syndrome (early breast, thyroid, uterine and other cancers, with intellectual disability in some cases)	24	PTEN	24
Retinopathy (gradual vision loss, can lead to blindness)	1	RPE65	1
Tuberous sclerosis (multiple types of benign tumors)	30	TSC1	8
		TSC2	22
Vascular Ehlers-Danlos syndrome (disease of the connective tissues, including arteries and muscles, that can increase the risk for health complications, such as rupture of arteries)	17	COL3A1	17
Wilson disease (too much copper in the body, can cause liver disease and nervous system issues)	13	ATP7B	13
Totals ^{†,‡}	6,530		6,530

[§]CDC Tier 1 Condition

*Number of patient-participants with reported results and the number per gene variant/condition may not be equal due to the possibility of a participant having more than one result.

†Includes some patients (~12%) already aware of their genomic result from clinical genetic testing. The process of clinical confirmation and disclosure may be modified for these patients

‡The gene list designated for return has shifted over time (PMID: 33576083). Totals include fewer than 10 results in genes no longer on the return list.

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