





## Results reported

5,758 patient-participants have received results\* from the Genomic Screening and Counseling Program

For the latest results, see [geisinger.org/MyCode-results](https://geisinger.org/MyCode-results).

June 1, 2025





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

Risk Condition 	Patients per condition 	Gene 	Patients per gene 
CDC tier 1 conditions (click link)			
Familial hypercholesterolemia (early heart attacks and strokes)	753	APOB	280
		LDLR	473
Hereditary breast and ovarian cancer (early breast, ovarian, prostate, pancreatic and other cancers)	1,046	BRCA1	360
		BRCA2	686
Lynch syndrome (early colon, uterine and other cancers)	566	MLH1	53
		MSH2	33
		MSH6	240
		PMS2	240
Cardiovascular risk			
Hereditary transthyretin amyloidosis (buildup of amyloid in the body, can lead to heart and nervous system disease)	253	TTR	253
Heritable thoracic aortic disease (genetic predisposition to weakening of the wall of the aorta, leading to swelling and sometimes rupture)	58	ACTA2	58
Inherited arrhythmias (irregular heartbeat with risk for cardiac arrest)	408	KCNH2	44
		KCNQ1	227
		SCN5A	137
Inherited cardiomyopathies (diseases of the heart muscle with dangerous complications)	1,079	BAG3	2
		DSC2	46
		DSG2	79
		DSP	85
		FLNC	47
		LMNA	26
		MYBPC3	208
		MYH7	80
		MYL2	8
		MYL3	8
		PKP2	82

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Cardiovascular risk <i>(continued)</i>			
<i>(continued from page 1)</i> <b>Inherited cardiomyopathies</b> (diseases of the heart muscle with dangerous complications)		PRKAG2	3
		RBM20	1
		TNNI3	26
		TNNT2	10
		TPM1	5
		TTN	363
Cancer risk			
<b>Familial adenomatous polyposis</b> (intestinal polyps and early colon cancer)	64	APC	64
<b>Hereditary pheochromocytomas and paragangliomas</b> (tumors that can release extra hormones and, rarely, become cancer)	120	SDHAF2	9
		SDHB	51
		SDHC	22
		SDHD	11
		TMEM127	27
<b>Li-Fraumeni syndrome</b> (early breast, soft tissue, brain, adrenal and other cancers)	27	TP53	27
<b>Multiple endocrine neoplasia type 1</b> (tumors that can release extra hormones and, rarely, become cancer)	19	MEN1	19
<b>Multiple endocrine neoplasia type 2</b> (early thyroid cancer)	140	RET	140
<b>MUTYH-associated polyposis</b> (intestinal polyps and early colon cancer)	4	MUTYH	4
<b>Neurofibromatosis, type 2</b> (noncancerous tumors in nervous system)	1	NF2	1
<b>PALB2-related cancer risk</b> (early onset breast, pancreatic, and ovarian cancers)	157	PALB2	157
<b>Peutz-Jeghers syndrome</b> (early breast, colon, pancreatic and other cancers)	2	STK11	2
<b>Retinoblastoma</b> (early eye cancer)	7	RB1	7
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Cancer risk <small>(continued)</small>			
<b>Von Hippel-Lindau syndrome</b> (early kidney cancer and benign tumors of the brain, eye, pancreas and adrenal gland)	4	VHL	4
<b>Wilms tumor</b> (malignant kidney tumor)	2	WT1	2
Miscellaneous phenotypes			
<b>Biotinidase deficiency</b> (buildup of a B vitamin in the body, can cause issues with the nervous system)	3	BTBD	3
<b>Fabry disease</b> (enzyme defect leading to damage of blood vessels in the skin and cells in the kidneys, heart, and nervous system)	10	GLA	10
<b>Hereditary hemochromatosis</b> (too much iron in blood, can lead to liver and heart problems)	621	HFE	621
<b>Hereditary hemorrhagic telangiectasia</b> (abnormal blood vessel formation in skin, mucous membranes, lungs, liver and brain)	53	ACVRL1	14
		ENG	39
<b>Juvenile polyposis</b> (intestinal polyps, cancer of the intestine, including colon)	4	BMPR1A	4
<b>Juvenile polyposis / hereditary hemorrhagic telangiecstasia</b> (intestinal polyps, cancer of the intestine, including colon/ abnormal blood vessel formation in skin, mucous membranes, lungs, liver & brain)	4	SMAD4	4
<b>Loeys-Dietz syndrome</b> (weakening of the wall of the aorta, leading to swelling and sometimes rupture)	10	SMAD3	5
		TGFBR1	2
		TGFBR2	3
<b>Malignant hyperthermia</b> (life-threatening condition usually triggered by exposure to certain drugs used for general anesthesia)	273	RYR1	273
<b>Marfan syndrome</b> (connective tissue disease that can cause heart, eye, and skeletal problems)	31	FBN1	31
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<b>Miscellaneous phenotypes</b> <small>(continued)</small>			
<b>Maturity-onset diabetes of the young (MODY)</b> (Diabetes in the teens or early adulthood)	15	<b>HNF1A</b>	15
<b>Ornithine transcarbamylase deficiency</b> (buildup of ammonia in the blood, can cause altered mental status and seizures)	4	<b>OTC</b>	4
<b>Pompe disease</b> (buildup of glycogen which could cause muscle problems throughout the body)	13	<b>GAA</b>	13
<b>PTEN hamartoma tumor syndrome</b> (early breast, thyroid, uterine and other cancers, with intellectual disability in some cases)	23	<b>PTEN</b>	23
<b>Retinopathy</b> (gradual vision loss, can lead to blindness)	1	<b>RPE65</b>	1
<b>Tuberous sclerosis</b> (multiple types of benign tumors)	25	<b>TSC1</b>	7
		<b>TSC2</b>	18
<b>Vascular Ehlers-Danlos syndrome</b> (disease of the connective tissues, including arteries and muscles, that can increase the risk for health complications, such as rupture of arteries)	15	<b>COL3A1</b>	15
<b>Wilson disease</b> (too much copper in the body, can cause liver disease and nervous system issues)	9	<b>ATP7B</b>	9
<b>Totals</b> <sup>†,‡</sup>	5,832		5,832

\*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.

# Geisinger