

Pancreatic Cancer Gene Panel (12 genes)

Everyone has two copies of each gene listed below. Normally, these genes help to protect us from getting cancer. If a person inherits a change, called a pathogenic variant (mutation) from one of their parents, their chance of getting cancer is increased.

GENES*	LIFETIME CANCER and/or TUMOUR RISK(S)
ATM**	Breast; Possible pancreatic, prostate and colon
BRCA1	Breast, ovarian/fallopian tube/primary peritoneal, prostate, male breast, pancreatic
BRCA2	Breast, ovarian/fallopian tube/primary peritoneal, prostate, male breast, pancreatic; Possible melanoma (form of skin cancer)
CDKN2A	Melanoma, pancreatic
MLH1	Colon, uterine, ovarian, stomach, small intestine, pancreas, prostate, urinary tract, bladder, hepatobiliary tract; Possible brain
MSH2 EPCAM	Colon, uterine, prostate, ovarian, bladder, urinary tract, stomach, small intestine; Possible pancreas and brain
MSH6	Colon, uterine, ovarian, urinary tract, prostate, stomach, small intestine, bladder; Possible hepatobiliary tract and pancreas
PMS2	Colon, uterine; Possible prostate, ovarian, urinary tract, stomach, small intestine, hepatobiliary tract, and brain
PALB2	Breast, pancreatic, male breast; Possible ovarian
STK11	Colon, breast, pancreatic, stomach, small intestine, ovarian tumours, lung, cervix, uterine, testicular tumours
TP53	Breast, sarcoma (bone and soft tissue), brain, adrenocortical, leukemia and others

*Cancer syndromes connected to above genes: Hereditary breast and ovarian cancer (BRCA1 and BRCA2), Familial atypical multiple mole melanoma (CDKN2A), Lynch syndrome (MLH1, MSH2, EPCAM, MSH6 and PMS2), MUTYH-associated polyposis (MUTYH), Peutz-Jeghers syndrome (STK11) and Li Fraumeni syndrome (TP53).

** Risks may vary based on family history and/or specific gene mutation.



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Genetic Testing:

□ Genetic Testing

Blood sample (or other DNA sample) is tested for mutations in the above gene(s).

 \circ $\mbox{Predictive:}$ Testing for the known mutation previously found in your family.

• Comprehensive: Full testing of the above 12 genes (cancer gene panel).

Possible Genetic Test Results:

RESULTS	EXPLANATION
Positive	 Cancer Risk Increased A mutation was found in one of the genes tested Increased risk for cancer specific to the gene that has a mutation Gene-specific cancer screening and prevention recommendations Offering genetic testing to adult at-risk relatives for the specific mutation is recommended
Negative	 Hereditary Cancer Risk Reduced No mutations were found in any of the genes tested Cancer risk(s) are based on personal and family history Cancer screening and prevention recommendations based on family history There still may be mutations in genes that were not tested There still may be mutations in other family members that you did not inherit
Uncertain	 Hereditary Cancer Risk Not Fully Defined A genetic change (called a variant of uncertain significance) was found however the cancer risk is unclear Cancer risk(s) are based on personal and family history Cancer screening and prevention recommendation based on family history Keep in touch every two to three years, for updates on variant classification