



Dear Healthcare Provider:

Your patient is interested in ordering a proactive genetic test through Invitae. Proactive genetic testing offers healthy adults without a strong personal or family history of disease an opportunity to learn about how their genes could impact their health. **Invitae has found that about 16% of healthy adults carry a serious health-related genetic risk.**¹ By identifying if your patient is at risk, you may be able to initiate early care, schedule regular monitoring, suggest lifestyle modifications, and potentially start early intervention to prevent the onset of disease.

Invitae offers three testing options that analyze genes for variants that are well-established indicators of a significantly increased risk of developing hereditary cancers, cardiovascular conditions, and other medically important disorders. Our test options, which are explained in more detail, include:

- **Invitae Cancer Screen:** analyzes a variety of hereditary cancers
- **Invitae Cardio Screen:** analyzes a variety of cardiovascular conditions
- **Invitae Genetic Health Screen:** analyzes hereditary cancers, cardiovascular conditions, and other medically important disorders

Due to the potential health implications of this test, Invitae proactive screens must be ordered by a healthcare provider on behalf of their patients. Place an order online in minutes by visiting www.invitae.com/proactive. If you are unsure what type of genetic testing is suitable for your patient, we have included a tool to help you decide, based on your patient's personal and family medical history.

If you have any questions, please do not hesitate to reach out to our team:

Client Services

800-436-3037

clientservices@invitae.com

¹Haverfield EV. Genetic screening for healthy individuals: Preliminary results from a medically actionable genetic screening panel. Presented at the American Society of Human Genetics; October 2017; Orlando, FL.

Diagnostic or proactive?

CHOOSING THE RIGHT GENETIC TEST



Genetic testing can provide powerful medical insights. Selecting the right test is the first step.

DIAGNOSTIC GENETIC TESTING can help identify and manage an existing hereditary condition, provide insight into unexplained symptoms, and gauge the risk of developing a condition that runs in the family.

PROACTIVE GENETIC TESTING is an emerging area in clinical genetics that gives healthy adults the opportunity to gain insights about health-related risks based on their DNA. It is appropriate for healthy individuals without symptoms or a strong family history of disease.

The following flowchart can help determine whether your patient would benefit from diagnostic or proactive genetic testing with Invitae.

1 Take a personal and family medical history

A detailed personal and family medical history will help uncover information that may help guide your decision. Be sure to ask questions such as:

- Any major medical problems in the family?
- Any sudden or unexpected death in the family?
- Any early death in the family?

DIAGNOSTIC

PROACTIVE

2 Determine whether diagnostic or proactive testing is appropriate

If your patient has any of the following, diagnostic testing may be appropriate:

- A personal history of a condition that can have a genetic basis
- Strong family history of a condition that can have a genetic basis
- Symptomatic features or a suspected diagnosis for a condition that can have a genetic basis

If your patient is a healthy adult with any of the following, proactive genetic testing may be appropriate:

- No personal or family history of cancer or cardiovascular conditions
- Family history of cancer or cardiovascular conditions is limited or does not meet diagnostic criteria
- Uncertain or unknown family medical history

3 Test medically actionable genes

In diagnostic testing, Invitae's results indicate genetic variants that are pathogenic, likely pathogenic, or variants of uncertain significance. Report findings are stated in these diagnostic terms.

In proactive testing, Invitae's results can be negative (no found variants) or can identify pathogenic or likely pathogenic variants. Report findings are stated in predisposition terms (risk).

4 Develop appropriate next steps, based on test results

Receiving a diagnostic genetic diagnosis can have implications for treatment decisions, medical management options and outcomes, and can impact other family members.

Proactive testing can reveal an increased predisposition for certain conditions. Detecting these risks early can help guide preventive measures to stay healthy.

STILL UNCERTAIN?

Invitae's board-certified genetic counselors are available to help you order the right test and guide you through results interpretation and management. For more information or if you're ready to consult with one of Invitae's genetic counselors, please email clinconsult@invitae.com or call Client Services at 800-436-3037.