

A Multidisciplinary Consortium to Advance Genetic Counseling in Oncology

Lunch and Learn #1

August 20, 2021



Introductions: Staff

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Executive Director, Iowa Oncology Society
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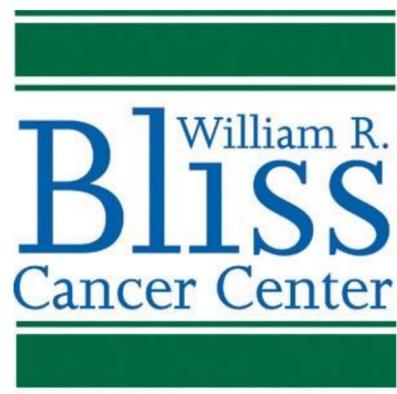
Joseph Kim, MD, MPH, MBA

Consultant
XAF Solutions

Background

The Iowa Oncology Society (IOS) and the Association of Community Cancer Centers (ACCC) are leading this initiative to explore gaps/barriers around hereditary genetic counseling and testing in patients with cancer and their family members.

Consortium Members



Tips and Tricks to Optimize Genetic Testing at Your Cancer Program

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Holden Comprehensive Cancer Center

University of Iowa Hospitals & Clinics



Disclosures

I have no financial disclosures.

I am a genetic counselor employed by the Holden Comprehensive Cancer Center at the University of Iowa Hospitals & Clinics.

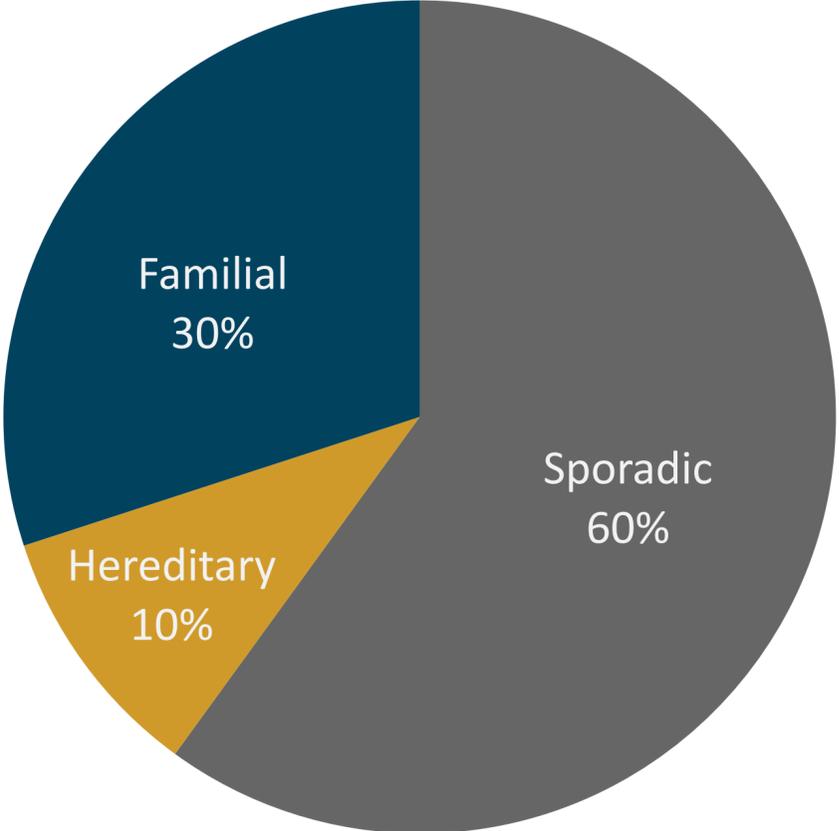
Objectives

- Review the purpose and importance of hereditary cancer genetic testing
- Discuss barriers to genetic testing
- Review resources to assist with family history collection
- Discuss tips to remember when and how to order genetic testing

Cancer Is Common

➤ 1 in 3 individuals develop cancer in their lifetime

Causes of Cancer



Why does it matter if someone has a hereditary cancer condition?

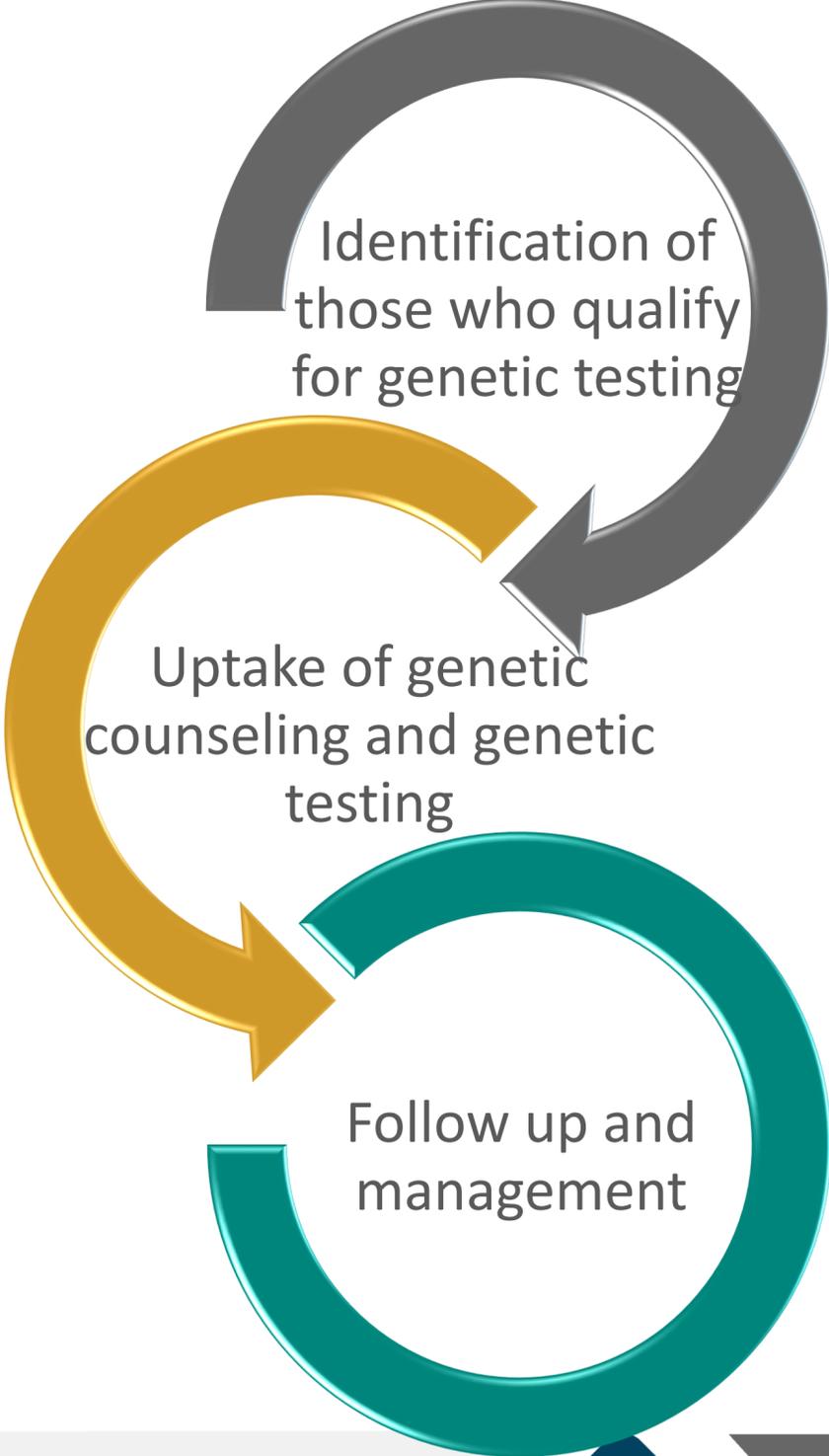
Treatment

Prevention

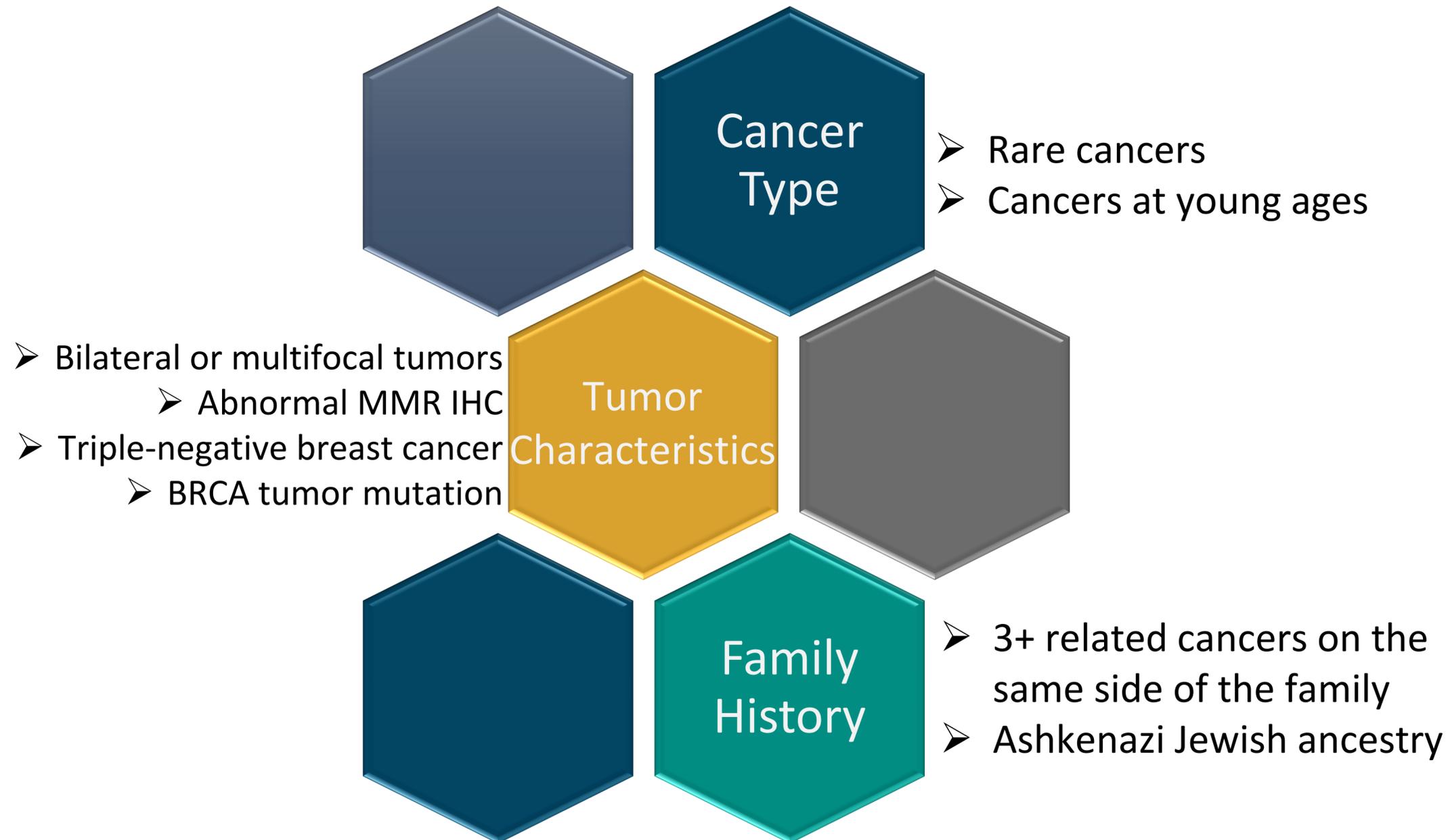
Early detection

Family awareness

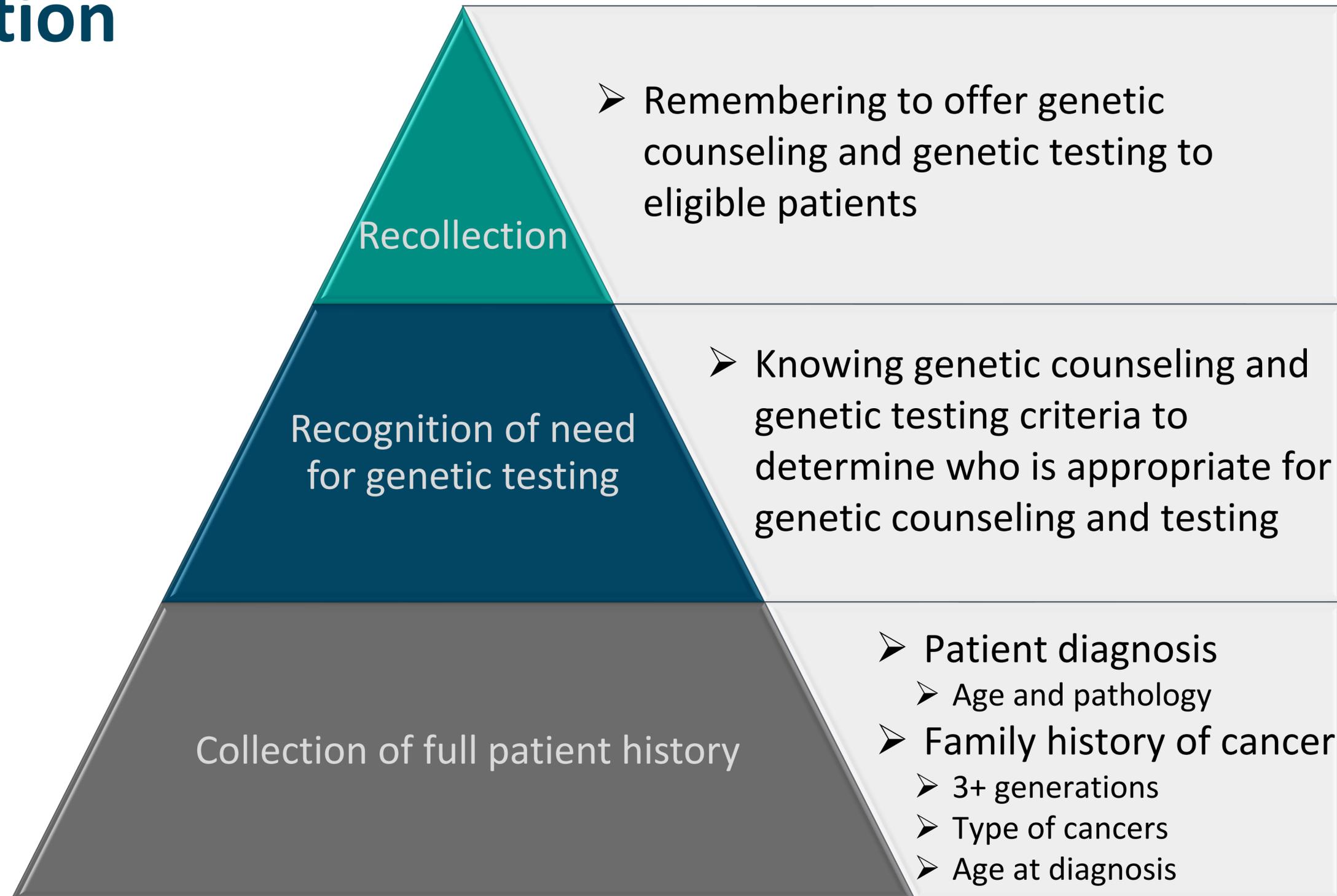
How do we identify those with a hereditary cancer condition?



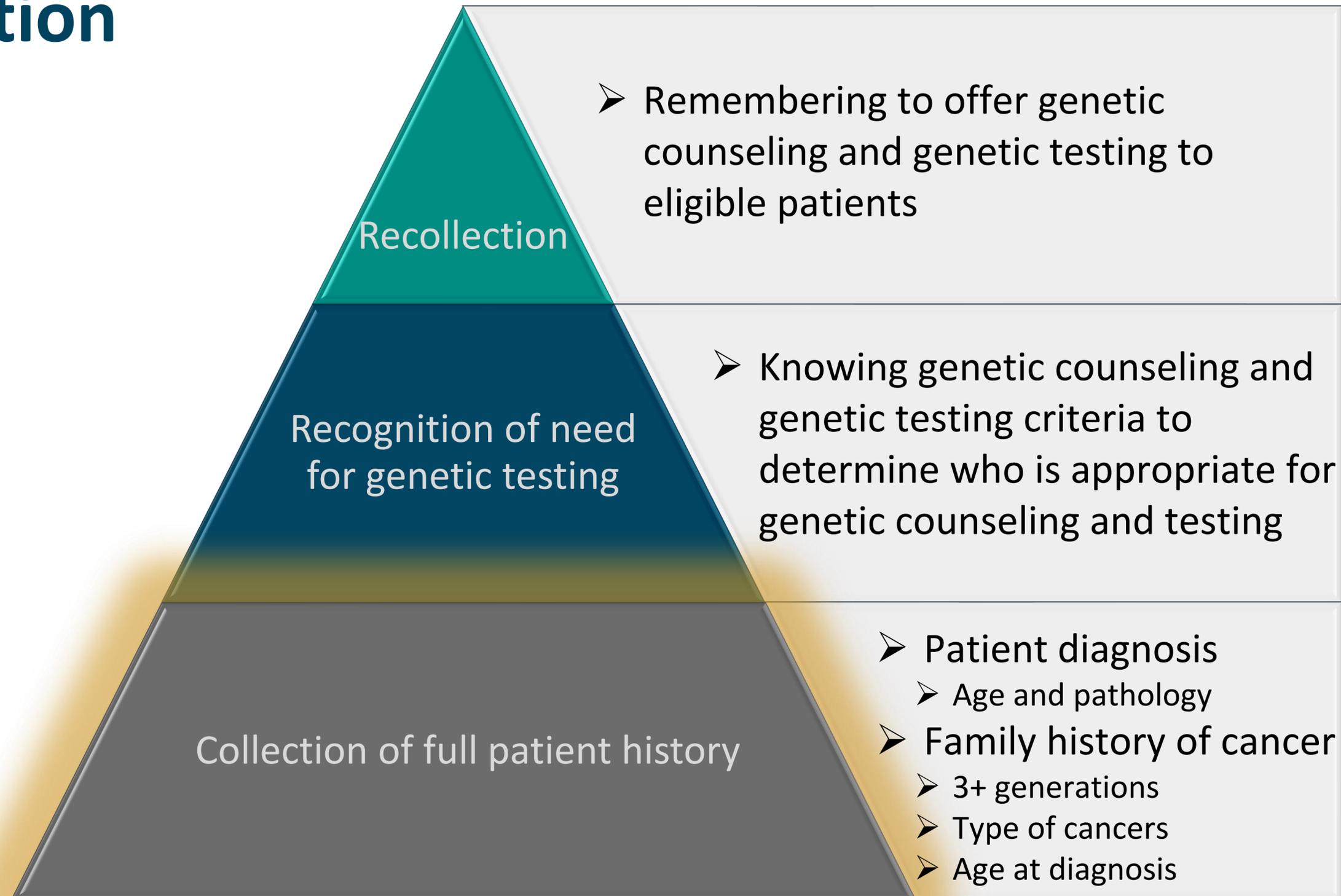
Factors used to identify families with a hereditary cancer condition



Identification of those at risk to have a hereditary cancer condition



Identification of those at risk to have a hereditary cancer condition

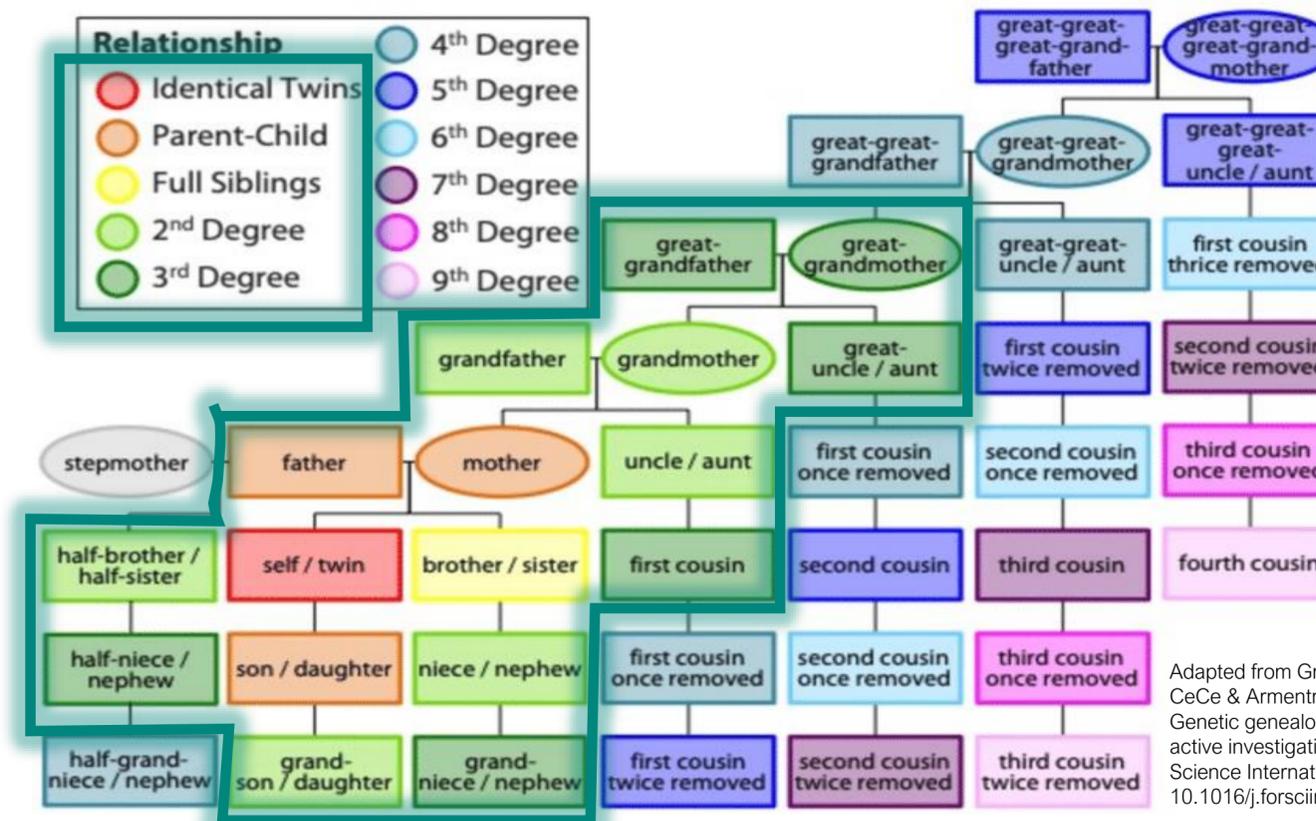


Collection of Patient History

- Ensure you have **all** relevant information about the patient's own diagnosis for a hereditary risk assessment (**current and past cancer diagnoses**)
 - Universal MMR IHC and/or MSI testing on **ALL** colorectal and endometrial cancers **regardless** of patient age or family history
 - If MLH1/PMS2 absence on IHC, automatically reflex to BRAF testing (CRC tumors only) or MLH1 promoter methylation (CRC or endometrial tumors)
 - If patient has a past history of cancer, details of that cancer are important, even if unrelated to their current diagnosis
 - Age at diagnosis, Gleason score for prostate cancer, hormone receptor status of breast cancer
- ★ Involve the pathology department! Ensure IHC is built into SOPs for CRC and endometrial cancer

Collection of Family History

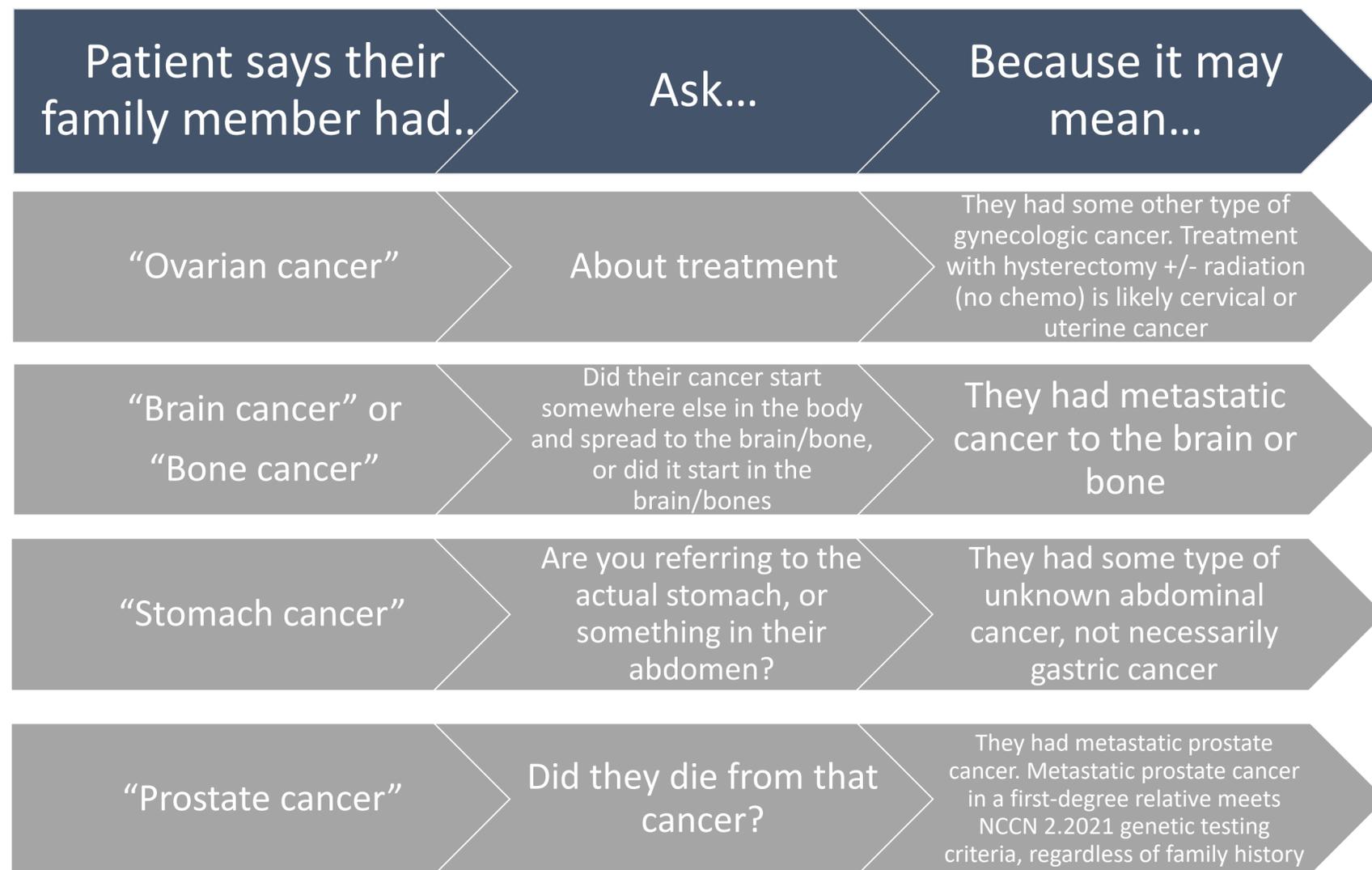
- A complete, detailed family history is key
 - Three generations necessary to determine if NCCN genetic testing guidelines are met
 - First-, second-, and third-degree relatives needed



- Obtain approximate age at diagnosis
 - In general, you need to know if they were diagnosed before age 50 or after age 50
 - For breast cancer, it can be helpful to know if they were diagnosed before age 45, between age 45-50, or after age 50

Collection of Family History

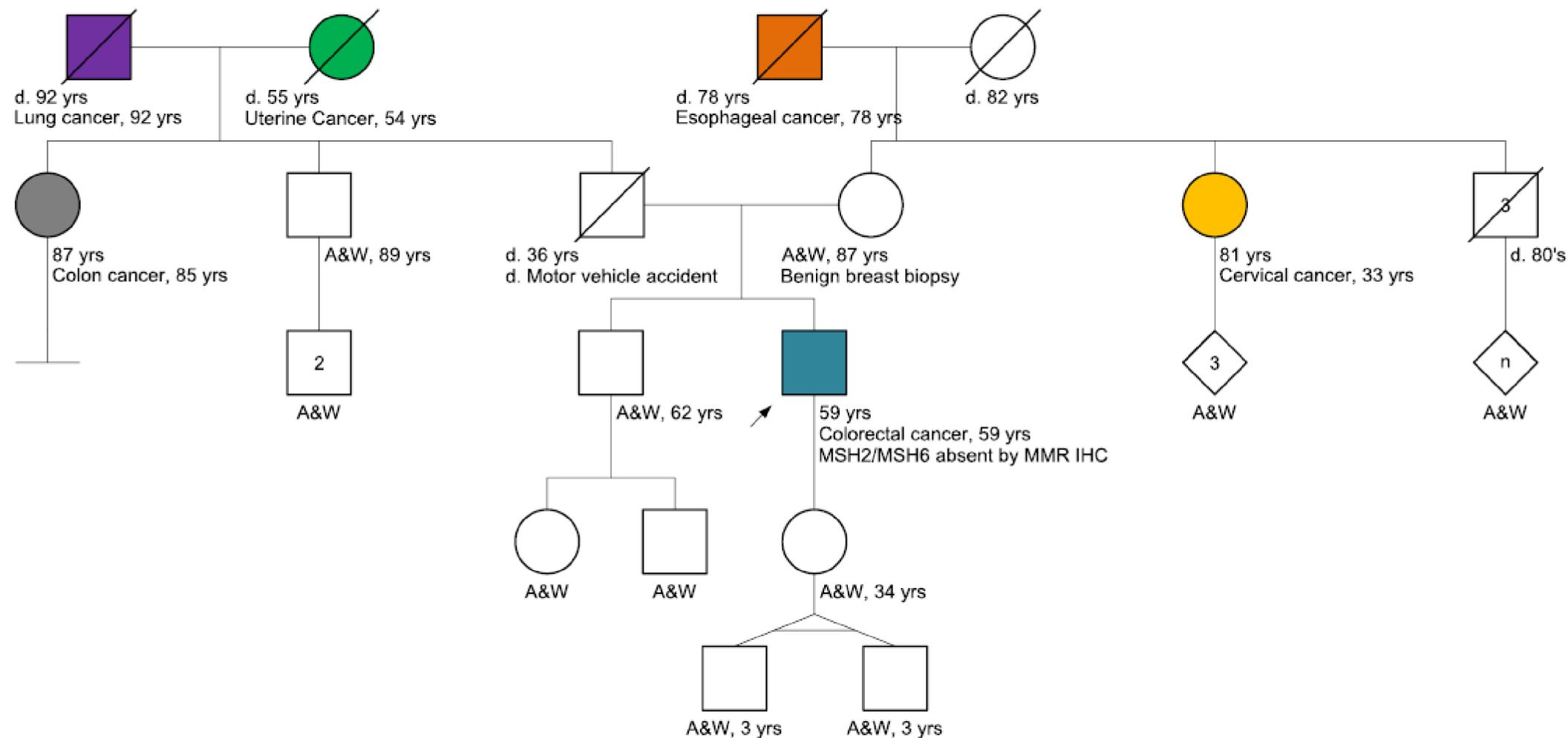
- Types of cancer in family is very important
 - Ask about ALL types of cancer in the family, not just the type of cancer the patient has
 - Someone with breast cancer can still have Lynch syndrome
 - Try to clarify the type of cancer by asking additional questions



These are only clues to the type of cancer, but there are exceptions to all of these. Pathology review is the only way definitively determine cancer type

Collection of Patient History

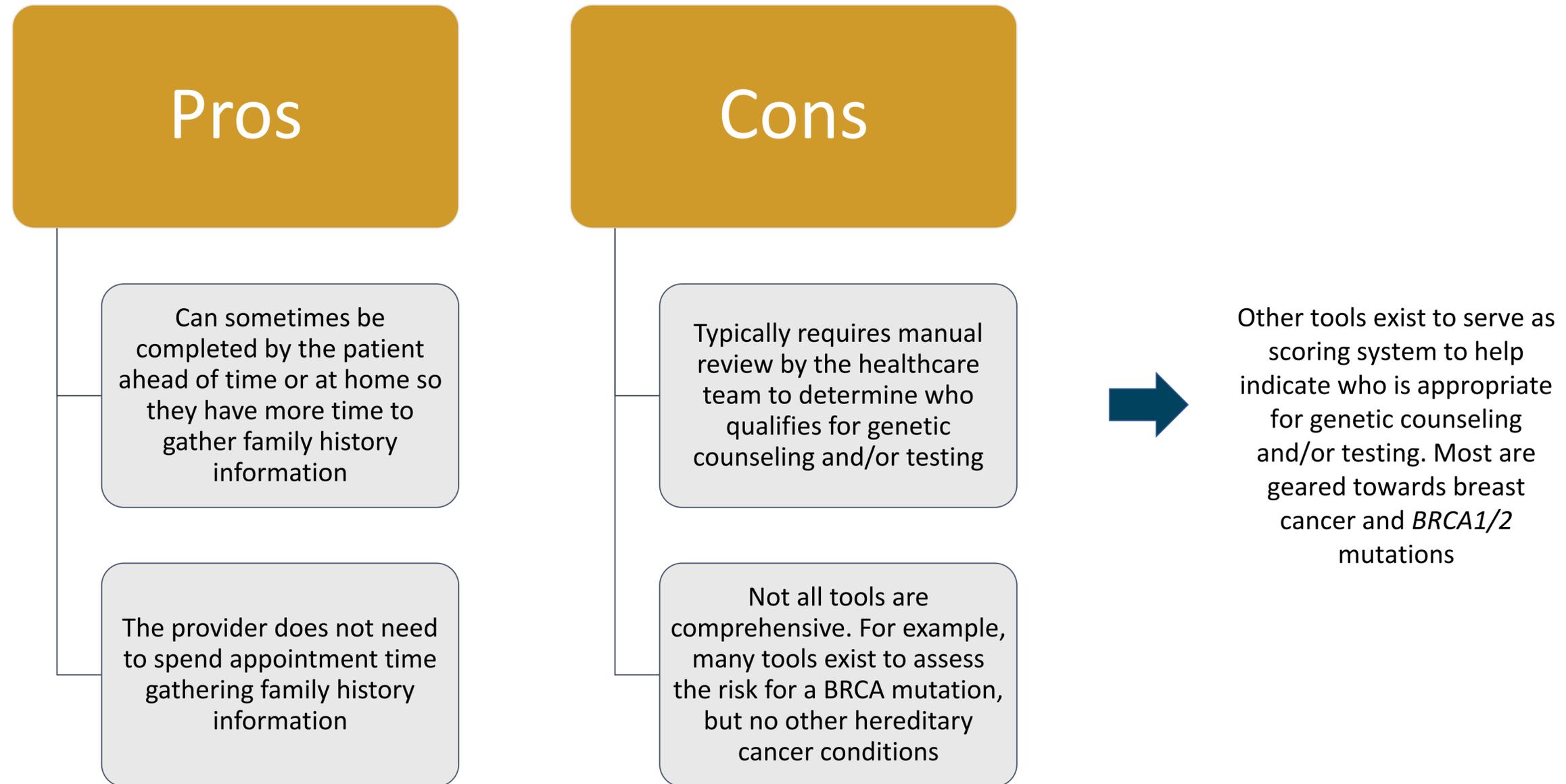
- Ideally—get a comprehensive, detailed, three-generation pedigree for every single patient
- Obtaining a detailed three-generation pedigree is time consuming and not always practical



★ Try a family history collection tool

Family History Tools

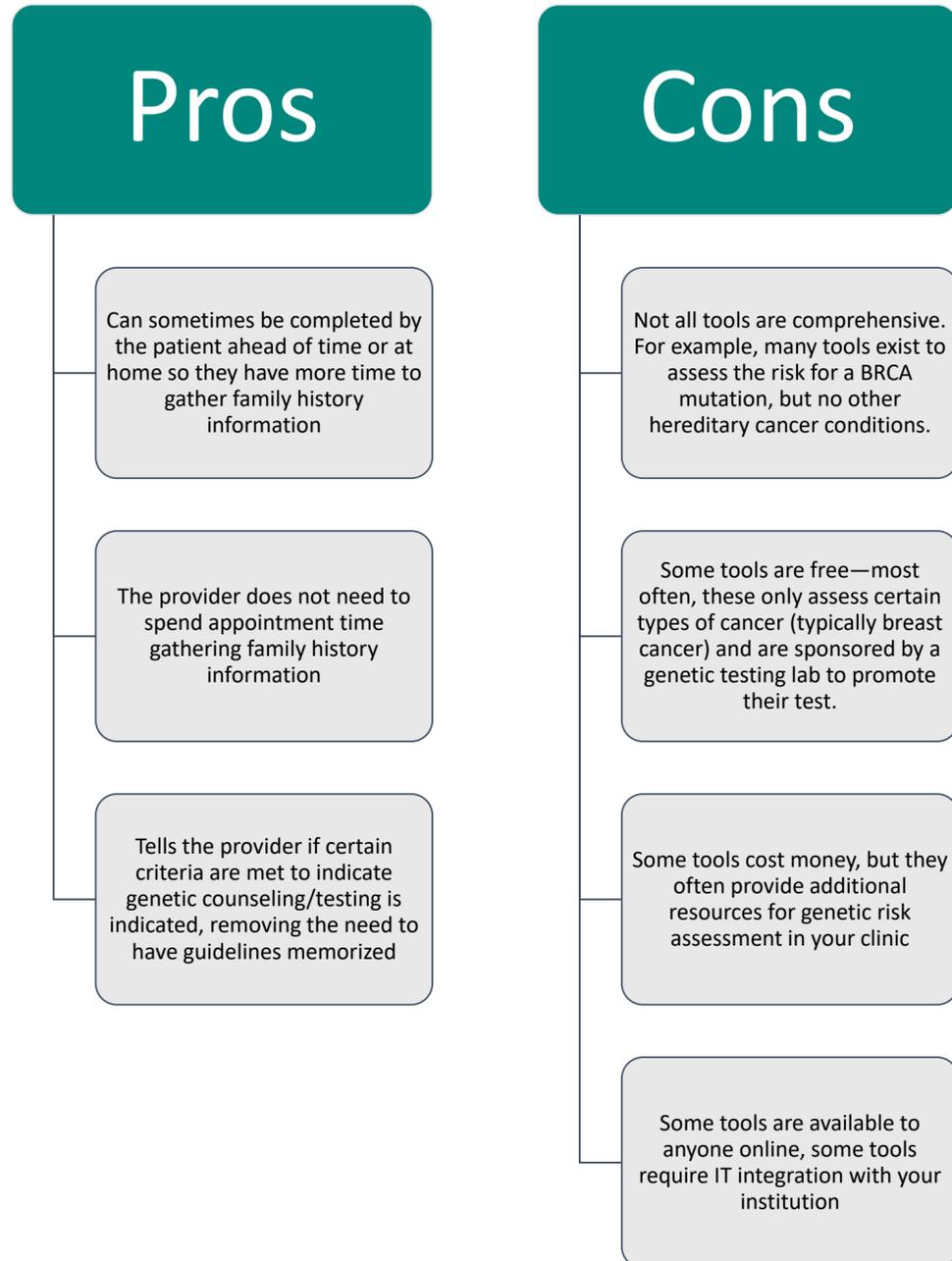
- Various paper and online questionnaires exist to gather family history information
 - Patient checks off which family members have had cancer, the type of cancer, and age at diagnosis



See handout of family history resources

Family History Tools

➤ Online tools exist that gather family history information and automatically assess if genetic counseling and/or testing is appropriate



Hi. You're here because you have questions about your cancer risk...

We can help give you answers. The Myriad myRisk® Hereditary Cancer test evaluates some genetic factors associated with cancer risks. Knowing your risk enables you to make smart choices about your health, take control, and live your best life.

Get Started

Find out if you are eligible for the Myriad myRisk® Hereditary Cancer test.

<https://www.hereditarycancerquiz.com/>

Your results

You appear to meet current medical guidelines to take the Myriad myRisk® Hereditary Cancer test.

What does this mean?

Based on your personal and family history, medical guidelines suggest that you be tested to see if you have a greater underlying risk for developing cancer. In order to take the next steps and reduce your potential risk of cancer, you will need a healthcare provider to order the test and discuss your results.

NEXT STEP

Connect with a healthcare provider.

Together, you and a medical provider can order your test and create a plan of action.

Option 1:

Contact a virtual healthcare provider now.

Genome Medical's network connects eligible individuals with their nationwide leading clinical and genetic experts. Take the next step with genetic testing by consulting with one of their expert practitioners. (Consult fee is \$129 and may be covered by your insurance).



Convenience

Genome Medical makes it easy to order and test from the comfort of your own home.



Expertise

Feel confident working with Genome Medical's trusted network of certified medical experts.



Peace of Mind

Waiting can be stressful with a genetic expert with hours.

VISIT GENOME MEDICAL NOW

Option 2:

Order a test kit at no cost and work with your healthcare provider.

Complete your hereditary cancer test under the care of your own healthcare provider.



1. Order test kit

A Myriad genetics representative will contact you to walk you through ordering the kit, contacting a medical provider and taking the test.

If you want to order a Myriad myRisk® Hereditary Cancer test kit right now complete the form above.



2. Meet with your healthcare provider

Your healthcare provider may use our kit to take a saliva sample from you and send it to Myriad to be analyzed.



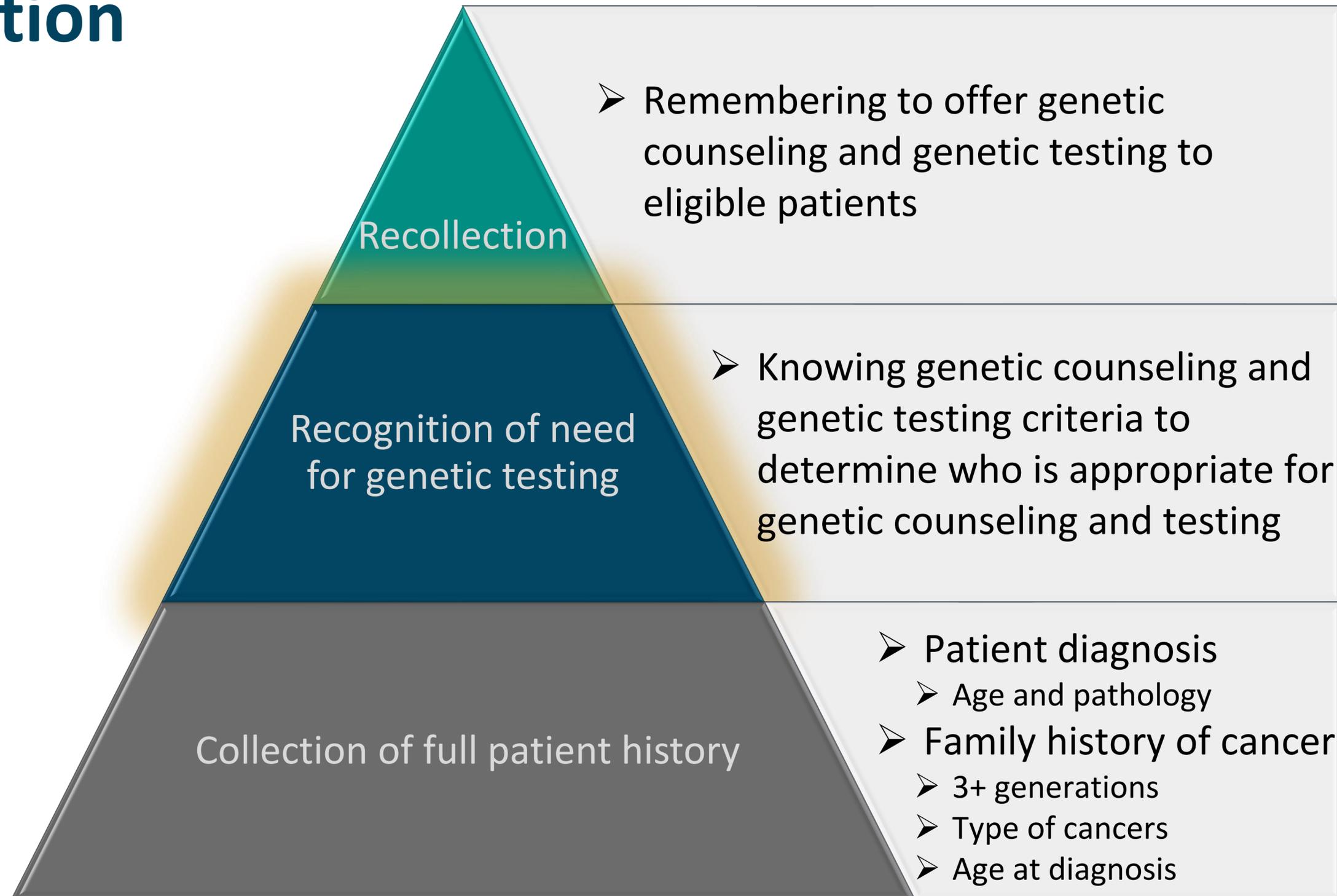
3. Review your results with your provider

In about 2-3 weeks, your provider will receive your results and contact you to discuss them.



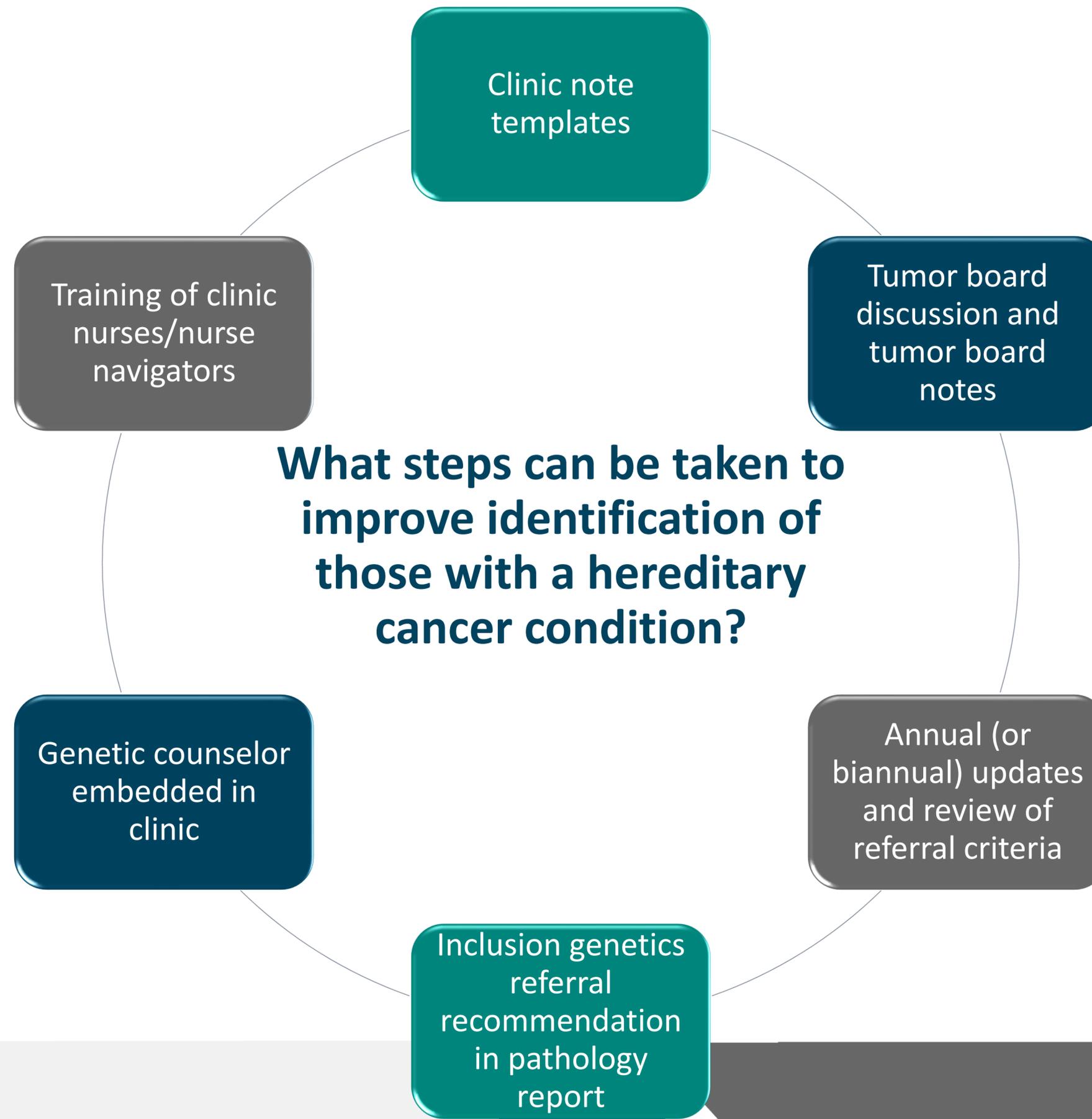
See handout of family history resources

Identification of Those at Risk to Have a Hereditary Cancer Condition



Recognizing When Genetic Testing Is Appropriate

- This is very difficult
 - NCCN guidelines are complicated
 - NCCN guidelines update frequently
 - NCCN has different guidelines for various types of cancer, and they are not all located in the same document
 - Various organizations besides NCCN have genetic testing recommendations
- How do you keep track of all of this???
 - No easy solution unless your institution invests in a genetic counselor or a comprehensive genetic testing assessment program
- → Create as many reminders throughout your workflow as possible



Recognizing When Genetic Testing Is Appropriate

Pathology

Include genetic testing recommendations on pathology reports

- Several types of cancer automatically indicate genetic testing per NCCN guidelines, regardless of age or family history
 - Based on NCCN guidelines as of July 2021 this includes epithelial ovarian/fallopian tube/primary peritoneal cancer, exocrine pancreatic cancer, intraductal/cribriform histology prostate cancer, high- or very-high-risk group prostate cancer, multifocal papillary renal cell carcinoma, renal cell carcinoma with fumarate hydratase deficiency, SDH-deficient renal cell carcinoma, gastrinomas, pheochromocytomas, paragangliomas, abnormal MMR IHC on any tumor, medullary thyroid cancer
- Include a note in the comments on the pathology report that genetic counseling and/or testing should be considered
- The pathology department reviews guidelines every 6-12 months to update these recommendations

Nurses

Get help from intake nurses and/or nurse navigators

- If the patient meets criteria for genetic testing based on their age at diagnosis alone, the nurse can place a referral or communicate the need to consider genetics
- During the initial intake with the patients after their cancer diagnosis, the nurse can ask some basic family history questions to serve as an initial screen for genetic testing eligibility
 - “Any family history of ovarian or pancreatic cancer? Any family history of breast, colon, or uterine cancer under age 50?”
- Document and/or communicate with the physician that the patient may be indicated for genetic counseling/testing; possibly place a per protocol referral at that time
- This has been very successful in our clinics at UIHC

Tumor Board

Have it on the agenda to discuss if genetic testing is appropriate for every patient

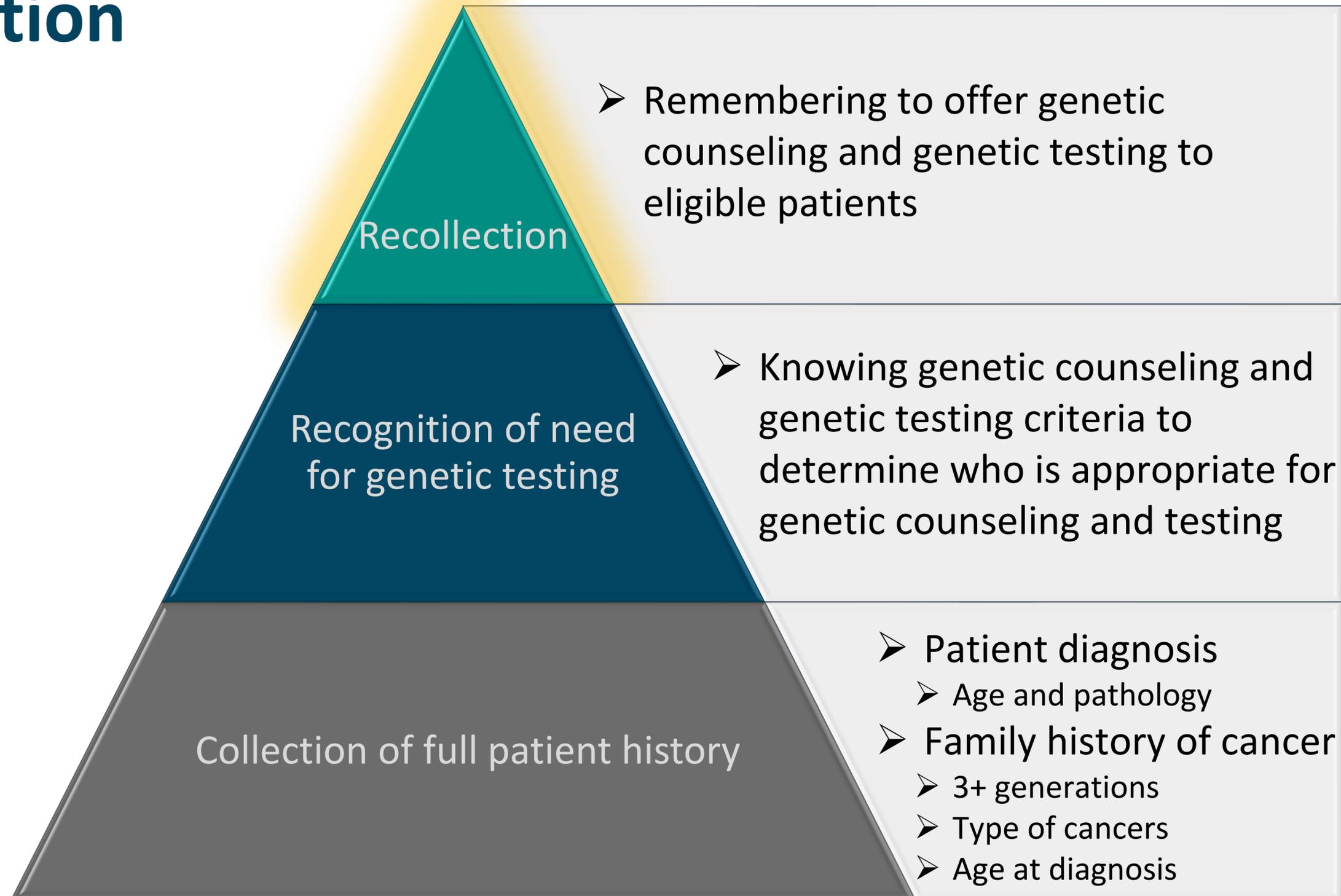
- In tumor board note templates, include a section forcing you to select if genetic counseling and/or testing is appropriate

Clinic notes

Include a section in all clinic note templates to indicate if genetic testing is appropriate

- In tumor board note templates, include a section forcing you to select if genetic counseling and/or testing is appropriate
- You can provide a brief outline of genetic testing criteria in your note template to help you determine if the patient qualifies for genetic testing
 - Update note templates biannually (ideal) or annually, as guidelines update frequently

Identification of Those at Risk to Have a Hereditary Cancer Condition



Remembering to Discuss and Order Genetic Testing or Genetic Counseling

- ★ Include a section about genetic counseling/testing eligibility in the clinic note template
 - This can serve as a reminder to discuss genetic testing every time the patient returns to clinic
- ★ If your clinic utilizes a feature such as sticky notes within your EMR, add a reminder to discuss genetics to your sticky note
- ★ Have the patients help you out! Hang posters/flyers in the waiting room or exam rooms telling the patient to ask you if genetic counseling/testing is appropriate for them

Questions?

The banner features a diamond-shaped image of a city skyline at night on the left. The text is centered and includes the society name, conference title, date, location, and a complimentary registration offer. The Iowa Oncology Society logo is on the right.

IOWA ONCOLOGY SOCIETY
FALL CONFERENCE
September 10 | Radisson Hotel and Conference Center
Coralville, IA
COMPLIMENTARY REGISTRATION!
Iowa Oncology Society

Hear Joseph Kim, MD, MPH, MBA, *XAF Solutions*, present lessons learned from the Multidisciplinary Consortium to Advance Genetic Counseling in Oncology education project on Friday, September 10 at the Iowa Oncology Society Fall Conference.

Featured Sessions:

Oncology's Hard Look in the Mirror: Steps Toward Achieving Equitable Cancer Care
Leigh Boehmer, PharmD, BCOP, *Association of Community Cancer Centers*

Treatment of Brain Metastases in Metastatic Melanoma
John Reith, MD, *University of Iowa*

Circulating Tumor DNA in Identifying Resistant Subclones Post EGFR Blockade: Implications for EDJR Rechallenge
Adithya Chennamadhavuni, MD, *University of Iowa*

Register: [bit.ly/iowa-fall-conference 21](https://bit.ly/iowa-fall-conference-21)



Thank You!

