

## Activity #2: Genetic Conditions- CDC Scavenger Hunt

Using the CDC Tier 1 Genomics Applications Tool Kit, complete the following scavenger hunt! Find the kit at: <https://archive.cdc.gov/www.cdc.gov/genomics/implementation/toolkit/index.htm>

### Part 1: Tier 1 Genomic Applications and their Importance to Public Health

1. Tier 1 genomic applications are those that have the potential for positive impact on public health based on evidence-based guidelines and recommendations.  
☒ True  
☐ False
2. Fill in the Blank:  
Nearly 2 million people in the United States are at increased risk of Hereditary Breast and Ovarian Cancer, Lynch syndrome and/or Familial Hypercholesterolemia.
3. Fill in the Blank:
  - Hereditary Breast and Ovarian Cancer Syndrome (HBOC) increases the risk of breast, ovarian, tubal, peritoneal and other cancers due to mutations in the BRCA1 or BRCA2 gene.
  - Lynch Syndrome (LS) increases the risk of colorectal, endometrial, ovarian, and other cancers associated with mismatch repair genes.
  - Familial Hypercholesterolemia (FH) is associated with increased risk of heart attack \_\_\_\_\_ or stroke due to mutations leading to very high cholesterol levels from an early age.

### Part 2: Reflection Questions

1. In your own words, write a simple definition of a genetic condition that you could use to explain it to a community member or client

A genetic condition is a health problem passed down through families, caused by changes in a person's DNA that affect how their body works.

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2. Choose one common genetic condition (e.g., sickle cell, HBOC, Lynch syndrome, FH) and write how you would explain this condition in plain, culturally appropriate language. What visuals or tools could you use to help clients understand it?

FH is a condition you're born with that causes high cholesterol. It runs in families and increases the risk of heart disease.

We can use pictures showing healthy vs. blocked arteries and food charts to explain how to stay heart healthy.

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3. What is one new thing you learned from this module that will help you in your CHW role?

That many serious health problems can be prevented or managed better when genetic risks are known early.

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4. What additional resources or support would help you feel more confident in educating patients and genetic conditions?

Easy-to-read brochures, videos in multiple languages, and community workshops would help me feel more confident when talking to patients.

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