

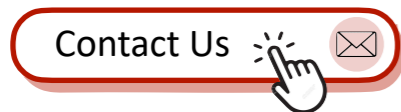
## CHARM is recruiting participants across Canada



### Interested in learning more?

Email: [charm-research-study@uhn.ca](mailto:charm-research-study@uhn.ca)

Website: [charmconsortium.ca](http://charmconsortium.ca)



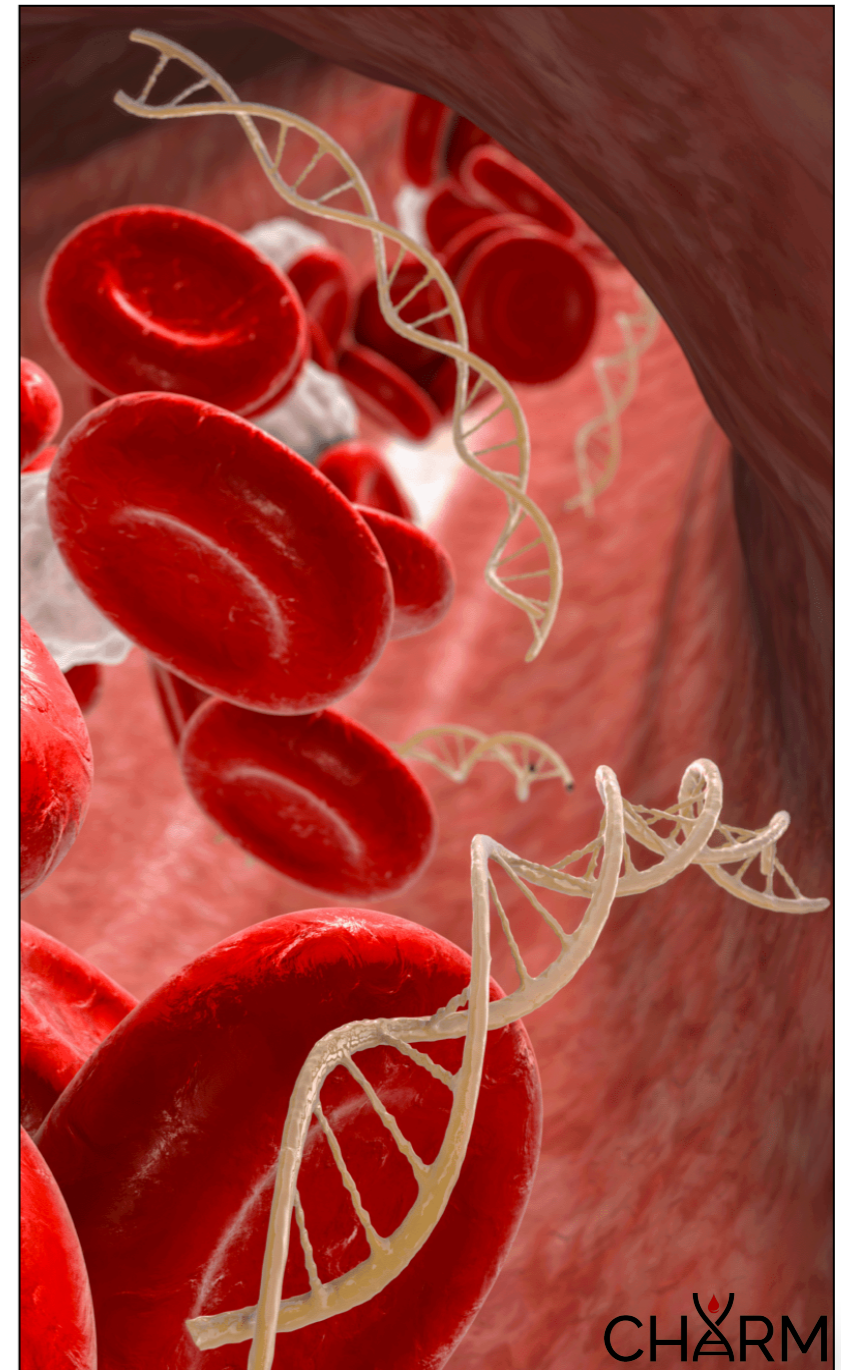
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# A UHN Research Study

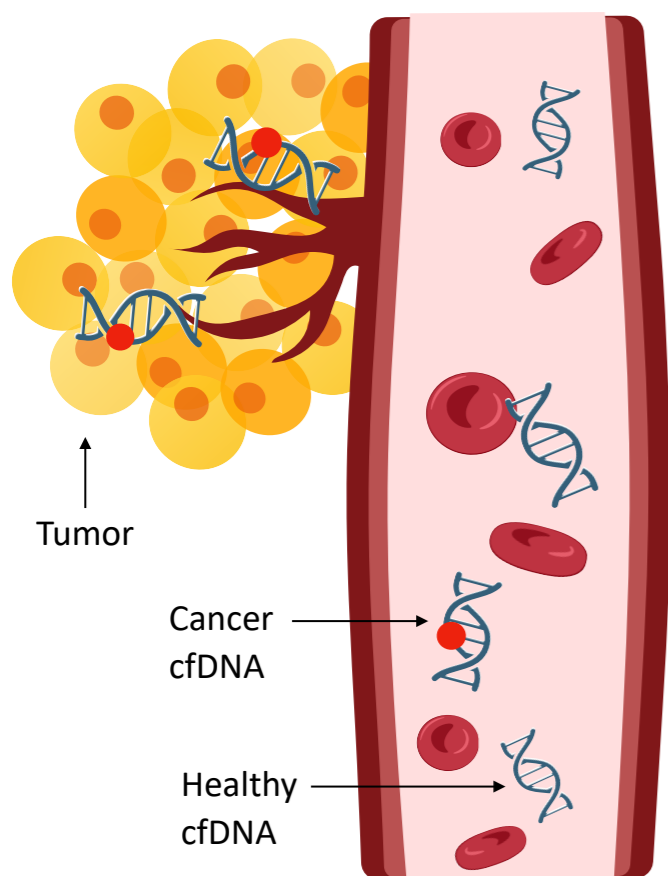
## Cell-free DNA in **Hereditary And High-Risk Malignancies (CHARM) 2:**

### Evaluating the Performance of an cfDNA Blood Test for Early Cancer Detection



## What is cell-free DNA (cfDNA)?

- Deoxyribonucleic Acids (DNA) is the instruction manual telling our body how to develop and function. Most DNA is found inside of cells.
- cfDNA are short pieces of DNA that circulate freely in your blood. Most of the cfDNA in the blood comes from normal, healthy cells.
- Cancer cells can also release cfDNA into the blood. cfDNA from cancer cells looks different than cfDNA from healthy cells.
- cfDNA can be detected with a blood test.



Our CHARM team is developing an experimental blood test for early cancer detection. **Our goal** is to understand the performance of this experimental blood test.

## What does the study involve?

CHARM will look at the cfDNA in your blood



You will provide a blood sample up to 3 times a year, for 4 years

cfDNA in your blood sample will be analyzed \*

\* Each study participant will be randomly assigned to the control or test group. cfDNA will only be analyzed for those assigned to the test group.

CHARM will return the results of the blood test to you

"Cancer signal detected" or  
"Cancer signal not detected"



A "cancer signal not detected" result does not guarantee that you do not have cancer.

The CHARM study doctor will arrange follow-up investigations

A "cancer signal detected" result is not a diagnosis. If you receive a "cancer signal detected" result, the study doctor will arrange followup investigations (e.g., additional bloodwork and imaging) to confirm or rule out cancer.

## What does the study involve?

Surveys & Interviews

You will be asked to complete surveys over the course of this study to help us learn how this blood test may impact your wellbeing.

You may also be invited to participate in optional interviews to talk more in depth about your feelings related to this blood test, and how results would affect your medical decisions.

## Who can participate?

CHARM is recruiting individuals who are at a higher risk of developing cancer. We are enrolling people who have inherited a variant in one of the following genes:

- **BRCA1/2, PALB2** (Hereditary Breast and Ovarian Cancer)
- **MLH1, MSH2, MSH6, PMS2, EPCAM** (Lynch Syndrome)
- **CDH1** (Hereditary Diffuse Gastric Cancer)
- **TP53** (Li-Fraumeni Syndrome)
- **NF1** (Neurofibromatosis Type 1)

Both those with and without a personal cancer history are eligible. However, at the time of study enrolment, individuals must not have active cancer.



**This experimental blood test does not replace any cancer screening tests recommended by your health care provider.**