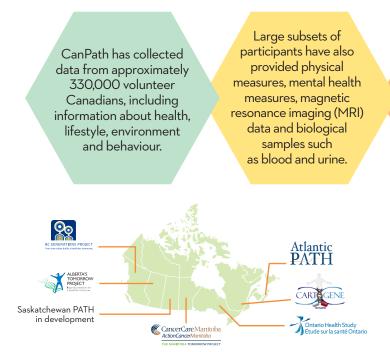


Canadian Partnership for Tomorrow's Health Partenariat canadien pour la santé de demain

CANADA'S LARGEST POPULATION HEALTH STUDY

CanPath - The Canadian Partnership for Tomorrow's Health - is Canada's national population health platform built to enable scientists to explore the complex factors that contribute to chronic disease and cancer.



A HARMONIZED RESEARCH PLATFORM

- Baseline and follow-up data from the five mature regional cohorts have been harmonized, creating a pan-Canadian resource of more than 2,800 measures of participant health and lifestyle factors.
- Harmonized data from over 100,000 responses to the COVID-19 Questionnaire are now available.
- The cohort is designed to facilitate collaboration with other large-scale international research initiatives, such as the International HundredK+ Cohorts Consortium (IHCC).

The size of the cohort and the richness of its epidemiological, clinical and biological data positions Canada amongst the world's leaders in longitudinal cancer and chronic disease research.

The power of this cohort continues to increase with time as new data are added, technology advances, and incident health outcomes occur.

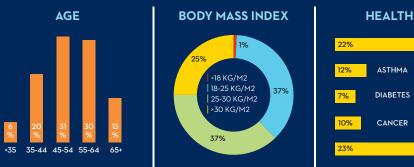
CanPath is a partnership of seven regional cohorts across ten provinces:

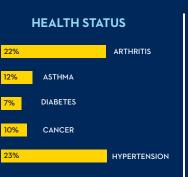
- BC Generations Project
- Alberta's Tomorrow Project
- Saskatchewan PATH
- The Manitoba Tomorrow Project
- Ontario Health Study
- CARTaGENE
- Atlantic PATH
- The dataset includes unique features and measures such as imaging data, detailed blood biochemistry, and genotyping results from more than 20,000 participant samples.
- Participants have agreed to the linkage of their questionnaire and biospecimen data to their administrative health records and are open to being re-contacted by their regional cohorts for future studies to collect additional data and samples.

* Dummer TJB, Awadalla P, Boileau C, et al. The Canadian Partnership for Tomorrow Project: a pan-Canadian platform for research on chronic disease prevention. CMAJ 2018;190:E710-7.

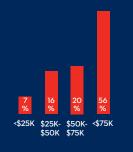
PARTICIPANT SNAPSHOT AT RECRUITMENT

Demographic and health status of participants





ANNUAL HOUSEHOLD INCOME



RESEARCH PLATFORM HIGHLIGHTS

CanPath has supported more than 200 research projects that are working to better understand the complex factors that contribute to disease.

- CanPath is a unique resource for scientists that has captured information on individuals across Canada who may be healthy or unwell, of differing ethnocultural and genomic origins, and whose exposures will have varying impacts on their health outcomes.
- Over a decade in, CanPath supports both retrospective and prospective health research. Data from the first follow-up questionnaire is now available and allows for the investigation of changes in health conditions across the cohort.
- Due to its scale and scope, CanPath is internationally recognized as Canada's primary population cohort that can contribute to major global initiatives in genomics and health.
- CanPath is partnering with the Health Data Research Network Canada (HDRN Canada) to facilitate multi-jurisdictional data linkage between CanPath cohorts and regional data holders through HDRN Canada's Data Access Support Hub.

COVID-19 INITIATIVE

With CanPath being active for more than a decade, it was possible to respond quickly to the pandemic by leveraging existing infrastructure to support the following aims:

- Determine population-level prevalence of COVID-19 in Canada; 1.
- 2. Determine biological, societal and behavioural factors that affect susceptibility to COVID-19;
- Capture the socio-economic, mental health and long-term health outcomes 3. of COVID-19:
- Capture biospecimens to enable population-level serological surveillance of 4. the SARS-CoV-2 virus, as well as pre- and post-vaccine immunity.

CanPath distributed a COVID-19 Questionnaire to the entire cohort and was awarded funding by CIHR and the COVID-19 Immunity Task Force to conduct a seroprevalence study on 20,000 participants.

CURRENT PROJECTS

Research areas of current projects



VARIABLES COLLECTED

Examples of key measures contained in the current datasets (certain measures are for subsets only but are actively being enhanced)

Health measures

Socio-economic factors and demographics, education level and employment status, personal and family disease histories, geographical location and occupational history, mental health status, cancer screening history, prescription and over-the-counter medication use, sex and reproductive health, diet and nutrition, sun exposure, alcohol and tobacco use, cannabis and e-cigarette use, physical activity and sleep patterns

Biosamples

Blood and urine samples, blood biochemistry and haematological analyses

Physical measures

Height, weight, waist and hip circumference, blood pressure, resting heart rate, BMI and body composition, grip strength, lung function, imaging and MRI data (>6,000 MRIs collected)

Molecular data

Genotyping, whole genome sequencing, exome sequencing, RNA sequencing, single cell sequencing

Environmental measures

Air and noise pollution, land use, transportation, physical infrastructure, and socioeconomic conditions

Contact Us

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Learn More www.canpath.ca

Regional Funding Partners

Government of Alberta, Alberta Cancer Foundation, Genome Quebec, Genome Canada, Ontario Institute for Cancer Research (OICR)

Institutional Partners

Explore & Request Our Data

portal.canpath.ca

Alberta Health Services, BC Cancer, CancerCare Manitoba, Centre hospitalier universitaire Sainte-Justine, Dalhousie University, OICR, Saskatchewan Cancer Agency

ACCESSING CANPATH RESOURCES

CanPath shares its resources with the research community to advance scientific knowledge while protecting the privacy of its participants and enriching the content of the database.

Application **Submission** Researchers are invited to submit Access Applications directly through the CanPath Portal at portal.canpath.ca. CanPath's Access Office will assist applicants throughout the access process.

Access Review **Process** CanPath offers Expedited **Review** for Access Applications requesting only the harmonized datasets. The Expedited Review takes approximately 3 weeks. All other applications require a Full Access Committee Review and are reviewed at quarterly meetings.

Committee evaluates applications

scientifically and ethically sound

research plan, use of appropriate

An independent Access

based on the provision of a

privacy and confidentiality

measures and evidence of

adequate financial resources.

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Application **Evaluation**

PARTENARIAT CANADIEN RE LE CANCER

February 2021

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with



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