

Dtect Onco Benefits You and Your Family

Dtect Onco is relevant for individuals with a family history of cancer, and for those who carry increased health risks associated with environmental or behavioural factors. If detected early, a cancer may be better controlled with medical advice and treatment.

An individual already diagnosed with cancer may want his or her family members to undergo a Dtect Onco test. This can give a more comprehensive picture of the prevalence of cancer markers within a family. Hence, family members can be better informed of their predisposition towards the cancer, and take the necessary steps to maintain their health.

Dtect Onco screens your DNA for genetic markers associated with 32 cancers that include:

- Basal Cell Carcinoma
- Bladder Cancer
- Breast Cancer
- Cervical Cancer
- Colorectal Cancer
- Endometrial Cancer
- Esophageal Cancer
- Esophageal Squamous Cell Carcinoma
- Gallbladder Cancer
- Glioma Development
- Hepatocellular Carcinoma
- Kidney Cancer
- Larynx Cancer
- Acute Lymphoblastic Leukaemia
- Chronic Lymphocytic Leukaemia
- Lung Cancer
- Lung Adenocarcinoma
- Follicular Lymphoma
- Hodgkin Lymphoma
- Non-Hodgkin Lymphoma
- Melanoma
- Meningioma
- Nasopharyngeal Cancer
- Oral and Throat Cancers
- Osteosarcoma
- Ovarian Cancer
- Pancreatic Cancer
- Prostate Cancer
- Squamous Cell Carcinoma
- Stomach Cancer
- Testicular Germ-Cell Tumour
- Thyroid Cancer

Limitations

Genetic screening can indicate whether an individual has a predisposition, or is at an increased likelihood, of having an inherited condition or disorder. However, it cannot indicate if the individual will show symptoms, how severe the symptoms will be, or whether the condition or disorder will progress over time. A negative test result does not mean that an individual will not get the inherited condition or disorder because Dtect tests are designed to screen for only highly significant genetic markers which have been documented during medical research. Environmental and lifestyle factors also play a role in the development of inherited conditions and disorders.

Other Products

Dtect BRCA+: Screens for risk of breast and ovarian cancers.

Dtect Cardio & Metabolic: Evaluates markers associated with cardiovascular and metabolic diseases.

Dtect Carrier: Screens your carrier status for rare genetic disorders.

Dtect Child: Detects inherited genetic illnesses/developmental disorders in children.

Dtect Colon+: Screens for risk of colorectal cancer, using ACMG guidelines.

Dtect Derma: Screens for traits or conditions that affect the skin.

Dtect Fertility: Screens for genetic causes of infertility.

Dtect Immune Health: Screens for risk of COVID-19 susceptibility and severity.

Dtect Neuro: Screens for risks of various types of neurological conditions.

Dtect NPC+: Screens for risk of nasopharyngeal and head and neck cancers.

Dtect Onco: Screens for risk of familial cancers.

Dtect PGx: Screens for risk of adverse drug reactions and drug responses.

Dtect Prostate+: Screens for risk of prostate cancer, using ACMG guidelines.

Dtect Wellness: Screens for traits or conditions that affect health and wellness.

- Please visit www.dtect.com for new product updates -

Available at:



Malaysian Genomics Resource Centre Berhad (652790-V)
www.mgrc.com.my



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ONC-PAT-08

DNA



Genetic Screening for Cancers

**Your First Step
Towards Total Health**

PATIENT'S GUIDE



Manage Your Health With Dtect Onco

Dtect Onco is a genetic screening test. This test screens your DNA for markers that are linked to inherited risk factors for cancers^{1,2}. The markers serve as 'red flags' in your DNA and can indicate if you are predisposed to a certain type of cancer.

With the information from these markers, you can be better prepared to make lifestyle and dietary changes to mitigate your health risks, if necessary.

Dtect Onco uses the latest research technologies available from Life Technologies Corporation, USA.

Ask your doctor for Dtect Onco today.



DID YOU KNOW?

One in four Malaysians has a lifetime risk of developing cancer³.



Understand Your Risk Factors for Cancer

Cancer refers to the uncontrolled division and growth of cells in the human body. The growth, or tumour, is caused by mutations in a person's DNA. These mutations can also be passed down from parent to child, or may be prevalent among siblings.

Cancers can develop in any part of the human body but those associated with the breast, colon and lung are more common in Malaysia⁴.

There are many risk factors linked to cancers. The common risk factors for two of the most prevalent forms of cancers are highlighted below.

Common Risk Factors for Nasopharyngeal Cancer⁵:

- Male
- Age >30 years
- High consumption of salt-cured foods
- Infection from Epstein-Barr virus
- Smoking
- Excessive consumption of alcohol
- Occurrence of nasopharyngeal cancer in family members

Common Risk Factors for Lung Cancer⁶:

- Smoking
- Exposure to second-hand smoke
- Exposure to asbestos and other chemicals
- Excessive consumption of alcohol
- Presence of certain lung diseases related to smoking
- Occurrence of lung cancer in family members

Process for Using Dtect Onco

- 1 Ask your doctor for Dtect Onco today.
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- 2 Your doctor will collect either a buccal swab sample from your inner cheek or a blood sample, and send it to our laboratory.
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- 3 We will extract DNA from the sample and screen for genetic markers.
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- 4 We will send the results to your doctor. If you require, we will also send you the results.
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- 5 Your doctor will explain the results to you and provide advice on the next course of action.

Manage Your Risks for Cancers With Dtect Onco

¹Ross JA, Linabery AM, Blommer CN, Langer EK, Spector LG, et al. (2012) Genetic variants modify susceptibility to leukemia in infants: A Children's Oncology Group report. *Pediatr Blood Cancer*. doi:10.1002/pbc.24131.

²Bae EY, Lee SY, Kang BK, Lee EJ, Choi YY, et al. (2012) Replication of results of genome-wide association studies on lung cancer susceptibility loci in a Korean population. *Respirology* 17: 699-706. doi:10.1111/j.1440-1843.2012.02165.x.

³New Straits Times Online. "Unite to stop silent killers". 31 January 2012. Retrieved from: <http://www.nst.com.my/top-news/unite-to-stop-silent-killers-1.39388#>

⁴The Star Online. "Cancer accounts for one in 12 deaths of Malaysians". 6 January 2012. Retrieved from: <http://thestar.com.my/news/story.asp?file=/2012/1/6/nation/10210830&sec=nation>

⁵Mayo Clinic. Retrieved from: <http://www.mayoclinic.com/health/nasopharyngeal-carcinoma/ds00756/dsection=risk-factors>

⁶Mayo Clinic. Retrieved from: <http://www.mayoclinic.com/health/lung-cancer/ds00038/dsection=risk-factors>