

# 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

- 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 increased likelihood of having an inherited disease or disorder. However, it cannot indicate if the individual will show symptoms, how severe the symptoms will be, or whether the disease or disorder will progress over time.

A negative test result does not mean that an individual will not get the inherited disease or disorder because Dtect Onco is designed to detect 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 diseases and disorders.

## Other Products

- Dtect BRCA+** screens for risk of breast and ovarian cancers, using ACMG guidelines.
- Dtect Cardio & Metabolic** evaluates markers associated with cardiovascular and metabolic diseases.
- Dtect Child** detects inherited genetic illnesses or developmental disorders in children.
- Dtect Colon+** screens for risk of colorectal cancer, using ACMG guidelines.
- Dtect Derma** screens for traits or conditions that affect skin youthfulness and premature ageing.
- Dtect Fertility** screens for genetic causes of infertility.
- 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 46 traits or conditions that affect health and wellness.




Onco

# Genetic Screening for Cancers


Your First Step Towards Total Health and Vitality

PATIENT'S GUIDE





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# 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<sup>1,2</sup>. 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 cancer<sup>3</sup>.



# 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 Malaysia<sup>4</sup>.

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 Cancer<sup>5</sup>:

- 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 Cancer<sup>6</sup>:

- 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 Risk for  
Cancers With Dtect Onco**

<sup>1</sup>Ross 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.

<sup>2</sup>Bae 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.

<sup>3</sup>New 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#>

<sup>4</sup>The 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>

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

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