



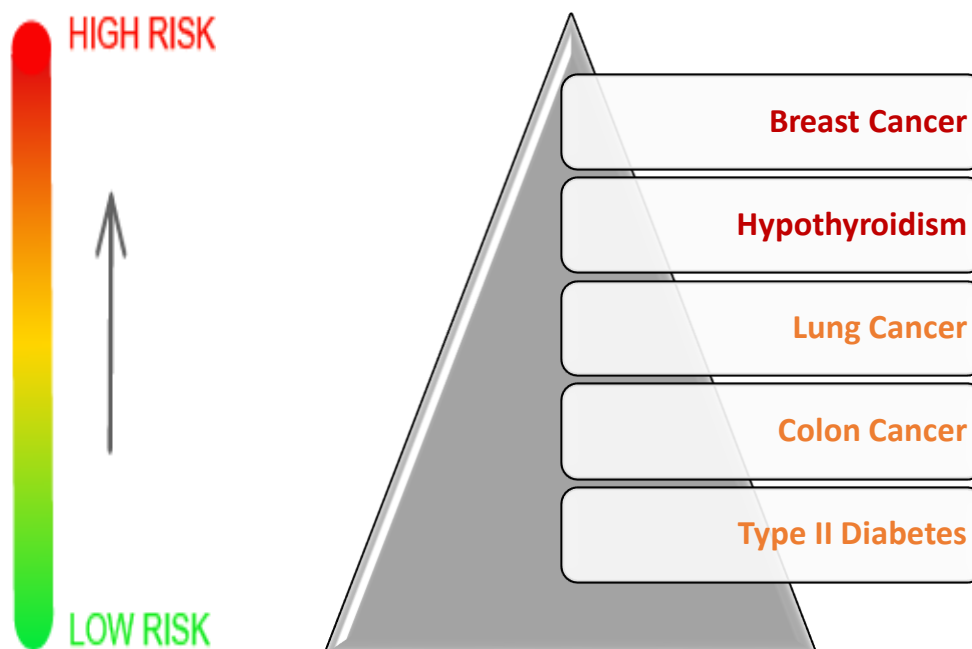
**XXX**  
**DISEASE SUSCEPTIBILITY  
DNA TEST REPORT**  
**17<sup>th</sup> February 2020**

Code number: XXXXXX  
Sex: Female  
Country:



## Health Risk Report

| Genetic Risks Ranging From Medium-High to High |            |            |                |
|--|------------|------------|----------------|
| Disease  | Risk Index | Risk Level | Degree of risk |
| Breast Cancer                                  | 2.93       | 9          | High           |
| Hypothyroidism                                 | 2.68       | 9          | High           |
| Lung Cancer                                    | 1.73       | 8          | Medium-High    |
| Colon Cancer                                   | 1.69       | 8          | Medium-High    |
| Type II Diabetes                               | 1.23       | 7          | Medium-High    |



Disclaimer: The information in the article this disclaimer is linked from should not be considered medical advice. The information in the article this disclaimer is linked from is not meant to treat, diagnose, prescribe or cure any ailment. Always consult your doctor before you start, stop, or change anything that has been previously prescribed. Certain herbs and holistic remedies are unsuitable to take if you are pregnant or nursing and must always be cleared by your doctor before use.

## Disease Risk Assessment

**Cardiovascular Disorders**

| No. | Disease                     | Risk Index | Risk Level | Degree of risk |
|-----|-----------------------------|------------|------------|----------------|
| 1   | Thromboembolism             | 0          | 0          | Low            |
| 2   | Intracranial Aneurysm       | 0          | 0          | Low            |
| 3   | Peripheral Arterial Disease | 0          | 0          | Low            |
| 4   | Atherosclerosis             | 0          | 0          | Low            |
| 5   | Atrial Fibrillation         | 0.57       | 1          | Low            |
| 6   | Hypertrophic Cardiomyopathy | 0.75       | 4          | Medium         |
| 7   | Rheumatic Heart Disease     | 0.42       | 2          | Low            |
| 8   | Abdominal Aortic Aneurysm   | 0.5        | 2          | Low            |
| 9   | High Blood Pressure         | 0.75       | 4          | Medium         |
| 10  | Cardiovascular Disease      | 0.25       | 1          | Low            |
| 11  | Dilated Cardiomyopathy      | 0          | 0          | Low            |
| 12  | Myocardial infarction       | 0          | 0          | Low            |
| 13  | Heart Failure               | 0          | 0          | Low            |
| 14  | Vascular Dementia           | 0.63       | 3          | Low            |
| 15  | Stroke                      | 0          | 0          | Low            |

**Respiratory Disorders**

| No. | Disease                                      | Risk Index | Risk Level | Degree of risk |
|-----|--|------------|------------|----------------|
| 16  | Tuberculosis (TB)                            | 0.5        | 2          | Low            |
| 17  | Pulmonary Fibrosis                           | 0          | 0          | Low            |
| 18  | Chronic sinusitis                            | 0          | 0          | Low            |
| 19  | Chronic Obstructive Pulmonary Disease (COPD) | 1.12       | 5          | Medium         |
| 20  | Infections Of The Upper Respiratory Tract    | 0          | 0          | Low            |
| 21  | Asthma                                       | 0          | 0          | Low            |
| 22  | Lung Cancer                                  | 1.73       | 8          | Medium-High    |

**Biliary Disorders**

| No. | Disease                   | Risk Index | Risk Level | Degree of risk |
|-----|---------------------------|------------|------------|----------------|
| 23  | Non-alcoholic Fatty Liver | 0          | 0          | Low            |
| 24  | Liver Fibrosis            | 1.13       | 3          | Low            |
| 25  | Cirrhosis                 | 1.17       | 4          | Medium         |
| 26  | Alcoholic Hepatitis       | 2.25       | 6          | Medium         |
| 27  | Primary Biliary Cirrhosis | 0.77       | 3          | Low            |
| 28  | Cancer Of Biliary Duct    | 0.62       | 1          | Low            |
| 29  | Chronic Pancreatitis      | 2          | 5          | Medium         |
| 30  | Pancreatic Cancer         | 0          | 0          | Low            |
| 31  | Liver Cancer              | 0          | 0          | Low            |
| 32  | Gallbladder Cancer        | 0.94       | 3          | Low            |
| 33  | Gallstones                | 0.42       | 1          | Low            |

**Digestive Disorders**

| No. | Disease                 | Risk Index | Risk Level | Degree of risk |
|-----|-------------------------|------------|------------|----------------|
| 34  | Crohn's Disease         | 0.37       | 1          | Low            |
| 35  | Ulcerative Colitis (UC) | 1.15       | 6          | Medium         |
| 36  | Chylous Diarrhoea       | 0          | 0          | Low            |
| 37  | Chronic Gastritis       | 0          | 1          | Low            |
| 38  | Gastric Ulcer           | 0          | 0          | Low            |
| 39  | Stomach Cancer          | 0          | 1          | Low            |
| 40  | Colon Cancer            | 1.69       | 8          | Medium-High    |

**Cerebral/ Neurological Disorders**

| No. | Disease                  | Risk Index | Risk Level | Degree of risk |
|-----|--------------------------|------------|------------|----------------|
| 41  | Brain Cancer             | 0          | 0          | Low            |
| 42  | Schizophrenia            | 1.33       | 4          | Medium         |
| 43  | Alzheimer's Disease (AD) | 0.55       | 0          | Low            |
| 44  | Parkinson                | 0          | 0          | Low            |

|    |                                     |      |   |        |
|----|-------------------------------------|------|---|--------|
| 45 | Obsessive Compulsive Disorder (OCD) | 0    | 0 | Low    |
| 46 | Social Phobia                       | 0.92 | 4 | Medium |
| 47 | Diabetic Neuropathy                 | 2.43 | 6 | Medium |
| 48 | Neuroblastoma                       | 0.96 | 3 | Low    |
| 49 | Multiple Sclerosis                  | 0    | 0 | Low    |
| 50 | Sciatica                            | 0    | 0 | Low    |

### Eye/Skin/Mouth/Nose/Ear Disorders

| No. | Disease                          | Risk Index | Risk Level | Degree of risk |
|-----|----------------------------------|------------|------------|----------------|
| 51  | Age-related Macular Degeneration | 2.5        | 1          | Low            |
| 52  | Glaucoma                         | 0.62       | 3          | Low            |
| 53  | Diabetic Retinopathy             | 2.18       | 2          | Low            |
| 54  | Hearing Loss                     | 0          | 0          | Low            |
| 55  | Otitis                           | 0.75       | 3          | Low            |
| 56  | Skin Cancer                      | 1.8        | 6          | Medium         |
| 57  | Malignant Melanoma               | 0          | 0          | Low            |
| 58  | Psoriasis                        | 0          | 0          | Low            |
| 59  | Oral Cancer                      | 0          | 0          | Low            |
| 60  | Periodontitis                    | 0.8        | 3          | Low            |
| 61  | Laryngeal Cancer                 | 0.85       | 3          | Low            |
| 62  | Nasopharyngeal Cancer            | 0.39       | 1          | Low            |
| 63  | Esophageal Cancer                | 0.67       | 2          | Low            |

### Endocrine Disorders

| No. | Disease              | Risk Index | Risk Level | Degree of risk |
|-----|----------------------|------------|------------|----------------|
| 64  | Type-2 Diabetes      | 1.23       | 7          | Medium-High    |
| 65  | Type-1 Diabetes      | 0.61       | 2          | Low            |
| 66  | Hypercholesterolemia | 1          | 4          | Medium         |
| 67  | Hyperlipidemia       | 0.65       | 1          | Low            |
| 68  | Thyroid Cancer       | 0.57       | 1          | Low            |
| 69  | Hypothyroidism       | 2.68       | 9          | High           |

|    |                     |      |   |     |
|----|---------------------|------|---|-----|
| 70 | Hyperparathyroidism | 0.5  | 3 | Low |
| 71 | Goiter              | 0.5  | 3 | Low |
| 72 | Graves' Disease     | 0.65 | 1 | Low |

### Urinary Disorders

| No. | Disease                | Risk Index | Risk Level | Degree of risk |
|-----|------------------------|------------|------------|----------------|
| 73  | IgA Nephropathy        | 0          | 0          | Low            |
| 74  | Chronic Kidney Disease | 1.85       | 6          | Medium         |
| 75  | Kidney Stones          | 0.82       | 4          | Medium         |
| 76  | Diabetic Nephropathy   | 0          | 0          | Low            |
| 77  | Bladder Cancer         | 0.47       | 2          | Low            |
| 78  | Renal Carcinoma        | 0          | 0          | Low            |

### Musculo-Skeletal Disorders

| No. | Disease                | Risk Index | Risk Level | Degree of risk |
|-----|------------------------|------------|------------|----------------|
| 79  | Rheumatoid Arthritis   | 0.47       | 1          | Low            |
| 80  | Ankylosing Spondylitis | 0.75       | 1          | Low            |
| 81  | Osteoarthritis         | 0          | 0          | Low            |
| 82  | Osteoporosis           | 0.38       | 1          | Low            |
| 83  | Gout                   | 1.7        | 4          | Medium         |

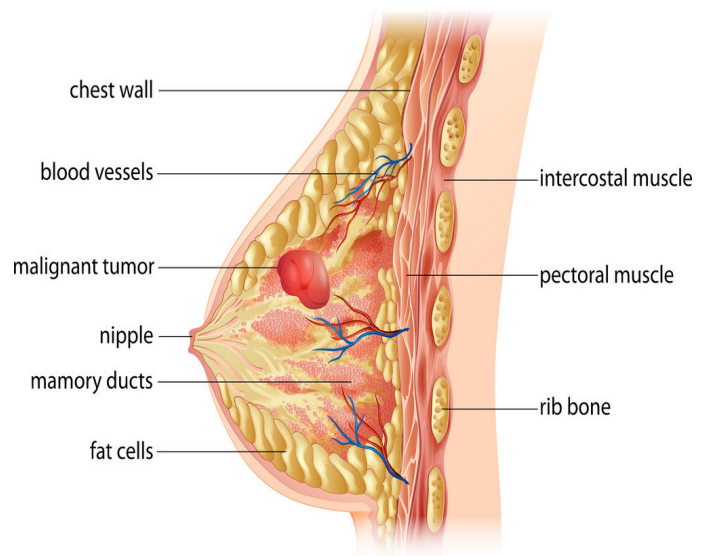
### Female-Related Disorders

| No. | Disease                       | Risk Index | Risk Level | Degree of risk |
|-----|-------------------------------|------------|------------|----------------|
| 84  | Gestational Diabetes Mellitus | 0.53       | 1          | Low            |
| 85  | Pre-eclampsia                 | 0          | 0          | Low            |
| 86  | Endometriosis                 | 0          | 0          | Low            |
| 87  | Endometrial Cancer            | 1.27       | 5          | Medium         |
| 88  | Breast Cancer                 | 2.93       | 9          | High           |
| 89  | Ovarian Cancer                | 0          | 0          | Low            |
| 90  | Carcinoma of Uterine Cervix   | 0          | 0          | Low            |

| Others |                              |            |            |                |
|--------|------------------------------|------------|------------|----------------|
| No.    | Disease                      | Risk Index | Risk Level | Degree of risk |
| 91     | Lymphoma Cancer              | 0.42       | 1          | Low            |
| 91     | Hodgkin's Lymphoma           | 0.85       | 4          | Medium         |
| 92     | Non-Hodgkin's Lymphoma       | 0          | 0          | Low            |
| 93     | Leukemia                     | 0          | 0          | Low            |
| 94     | Aplastic Anemia              | 0          | 0          | Low            |
| 95     | Sjögren's Syndrome           | 0          | 0          | Low            |
| 96     | Systemic Lupus Erythematosus | 0.4        | 1          | Low            |
| 97     | Chronic Hepatitis B          | 0.42       | 1          | Low            |
| 98     | Myeloma Multiplex            | 1.45       | 3          | Low            |
| 99     | Resistance to HIV & AIDS     | 0          | 0          | Low            |
| 100    | Hemochromatosis              | 0.42       | 1          | Low            |

# Breast Cancer

Breast cancer is the presence of mutated cells in the breast tissues, which is primarily due to genetic and environmental factors. Breast cancer may present itself as a metastatic disease that has the potential to spread to other parts of the body. Common sites of metastasis include bone, liver, lung and brain. This can be accompanied with unexplained weight loss, fever, chills, joint pain and jaundice. Early stages of breast cancer does not present any symptoms, and therefore it is vital to undergo regular mammogram checks and treat any abnormalities early.



## Risk Factors

- Age
- Family history of breast cancer
- History of presence of ovarian cancer
- Irregular menstruation
- Late menopause
- Had hormone replacement therapy
- Alcohol consumption
- Giving birth after the age of 30

## Clinical Symptoms

- Painless lumps
- Unusual discharge from the nipple
- Persistent rash around the nipple
- Retracted nipples
- Swollen or thickened skin
- Change in overall shape of the breast



NIPPLE CHANGES  
INVERSION



SWELLING OF ALL OR  
PART OF BREAST



PAIN OF BREAST



DIMPLED OR  
DEPRESSED SKIN



BLOODY DISCHARGE



A LUMP IN  
THE BREAST



VISIBLE LUMP  
ON ARMPIT



THE DESTRUCTION  
OF THE SKIN



# Breast Cancer

## Prevention



- Conduct self check regularly.
- Abstain from alcohol and smoking.
- Weight control
- Regular exercise
- Breastfeeding provides beneficial properties and therefore encouraged.
- Use progesterone cream once tested with high estrogen levels.
- Avoid carcinogenic foods(barbequed, grilled, charred meats).
- Avoid hormonal contraceptives(birth control pills, IUD).
- Avoid exposure to radiation and environmental pollution.
- Reduce the frequency of dying hair or working with hair dye.

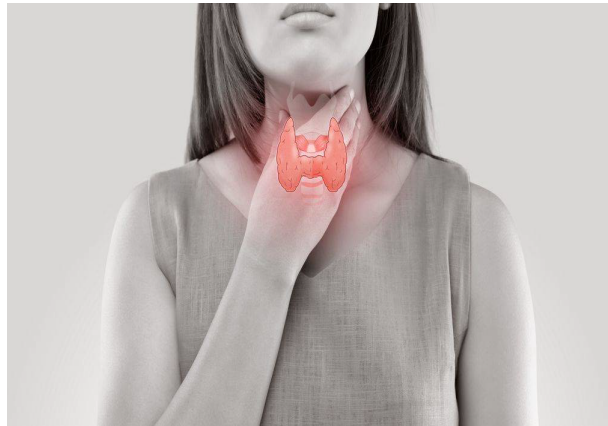


## Nutritional Recommendations:

- Avoid milk and dairy products
- Increase intake of anticarcinogenic foods(sweet potato, green tea, etc)
- Increase fiber(vegetables, seeds, nuts, whole grains) intake
- Increase intake of antioxidative fruits(pineapples, cherries, grapes, plums)
- Increase intake of onions and garlic
- Increase intake of fish(salmon, tuna)
- Increase intake of cruciferous vegetables(cabbage, broccoli, brussel sprouts)
- Drink spring or filter water
- Opt for organic food/meat products
- Add longan and wild yam in your diet
- Limit the intake of royal jelly and honey

# Hypothyroidism

Hypothyroidism is a condition whereby the underactive thyroid gland does not produce enough thyroid hormones to meet the body's needs, thus slowing down the body's functions — primarily homeostasis and metabolism.



## ***Risk Factors***

- Female gender
- Family history of hypothyroidism
- Older age
- History with thyroid problem
- History of other autoimmune diseases
- Pregnant or delivered a baby within the past six months

## ***Symptoms***

- Fatigue and sluggishness
- Weight gain
- Increased sensitivity to cold
- Dry hair and hair loss
- Swollen tongue
- Irregular menstrual periods
- Depression

## ***Prevention***



Research has shown that goitrogens (found in broccoli, brussels sprouts, cabbage, cauliflower, kale, turnips) and isoflavones(found in soy), are potentially dangerous compounds which increases the risk of contracting hypothyroidism. Goitrogens is capable of disrupting the thyroid's functionality of utilizing iodine, and therefore it is highly recommended to cook cruciferous vegetables prior to consumption, and limit them to 5 ounces a day. High fiber diets, fatty foods, caffeine, isoflavones and gluten(found in bread, pasta, rice) are also capable of disrupting the absorption of thyroid medications. Higher doses of thyroid medication is recommended if adopting a high fiber diet.

Alcohol has a toxic effect on the thyroid glands and can cause havoc in the regulation of thyroid hormone levels in the body and suppresses the thyroid's ability to produce hormones. It is highly recommended to stay away from alcohol.

# Hypothyroidism

## *Recommended Herbs for Hypothyroidism*

Black Cohosh is especially good for treating menstrual problems associated with hypothyroidism. It's a popular treatment for menopausal women, treats symptoms of PMS and may help with infertility.

Kelp is sometimes given to people with hypothyroidism because iodine deficiency is linked to the disorder in some parts of the world.

St. John's Wort could be helpful if you suffer from depression, a symptom that often accompanies low thyroid function.

Cayenne supplements can help with blood circulation by strengthening the heart. An improvement in circulation can alleviate the cold extremities that are common with hypothyroidism.

Fenugreek, longan, wild yam, brussel sprouts and broccoli are also helpful to balance the level of estrogen. Too high of estrogen can cause hypothyroidism.

## *Food and Herbs to Avoid*

Some studies indicate that there are certain foods and herbs that should be limited or avoided if you have hypothyroidism, such as tofu, soy milk, dairy products and meats.

Ginseng, astragalus, bamboo, burdock, echinacea, ginger and lemon balm are among the herbs that you should avoid in the early stages of hypothyroidism.

## **Recommendations:**

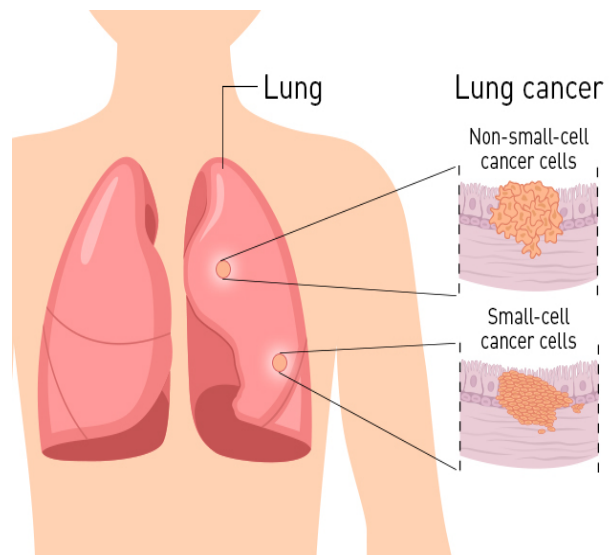
- Reduce the frequency of taking soy products, honey, royal jelly, chicken and dairy products as they are estrogen donors.
- Ensure the proper intake of iodine which is found in iodized salt, kelp and seaweed to enhance the thyroid health.
- Replace your refined salt with iodized salt.

# Lung Cancer

Lung cancer begins in the tissues of the lungs, when there is a mutation in the cells lining the air passages which cause excessive cell growth responsible for tumor development.

## Symptoms

- Cough that worsens overtime
- Chest pain
- Coughing up blood
- Shortness of breath
- Loss of appetite or weight loss
- Fatigue
- Headache



## Prevention



A wide aspect of elements contributing to this condition involves one's medical history, smoking habits, exposure to environmental and occupational substances, diet, and family history of lung cancer. To target prevention, these aspects have to be addressed in order to minimize the risk of developing lung cancer.

### *Environment*

The first step to prevent lung cancer is to evaluate your environment and the air quality of your vicinity. It is advisable to avoid living near factories, incinerators, laboratories, and construction workplaces. Family members and friends who smoke should be avoided as well. This is to minimize exposure to second-hand smoke, toxic fumes, carcinogens and radon gas — a byproduct caused by the breakdown of uranium in soil, rock and water.

### *Lifestyle*

Avoid smoking and vaping. Regular exercise is highly recommended as it also plays a role in cancer prevention as the body's immune system is strengthened. If possible, choose to exercise at natural habitats such as a forest or beach. It is good for the body to be exposed to negative-ions. Lastly, sleeping early and adequately helps the body to recover to its optimum as it goes through innate detoxing in a state of rest.

### *Diet*

Eat a diet packed with fruits and vegetables. Food sources of vitamins and nutrients are best. Taking probiotics and antioxidant supplements help too. Avoid taking excessive antibiotics as it will weaken the body's immune system, and drink more tea as it provides polyphenols and antioxidants that can help combat against free-radicals.

# Lung Cancer

Research has proven that the consumption of hydrogen water improves quality of life, immunity and longevity. Hydrogen has an antioxidant effect that neutralizes over-reactive oxygen molecules to produce a stable compound— water. Over-reactive oxygen molecules are produced when free oxygen molecules bind to electrons that were leaked out of the cell's powerhouse— mitochondria, potentially damage cells and genes which ultimately contribute to detrimental conditions, diseases and aging. Hydrogen is also capable of reducing inflammation, strengthening cell membranes, promoting fat metabolism and regulating gene expressions. Drinking hydrogen water is highly recommended to secure these health benefits.

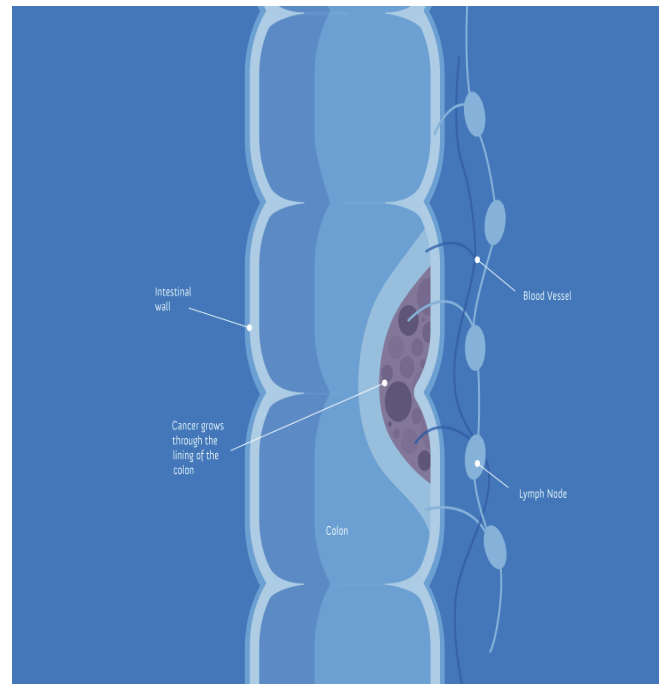


## Recommendations:

- Avoid active or passive smoking.
- Avoid contact with harmful aerosol — mosquito coils incense, perfume, sawn wood powder, dust, coal, gas and other volatile organic compounds.
- Prevent hazardous fumes from the kitchen — avoid working in the kitchen for long hours as cooking fumes is damaging to the lungs.
- Aerobic or breathing exercise is of utmost importance in keeping the lungs healthy.
- Avoid working as a hair-stylist, a chef or a construction worker to avoid occupational hazards.
- Foods such as pears, melon, bird nest, white fungus, luo hanguo and cordyceps are good for the lungs.
- Avoid lateral sleeping position to protect the lungs.
- Supplementing Vitamin C, Echinacea, Manuka honey and Propolis is recommended.
- Exercising regularly is very important to keep the lungs vibrant and healthy.

# Colon Cancer

Colon cancer begins as intestinal polyps that usually form in the inner lining of the large intestine, which can progress into a cancerous tumor that invade, replace and destroy normal cells. It can also spread to other areas of the body in severe cases. Risk factors include genetics, age, family history, environment, diet, and lifestyle. Having certain diseases or conditions may place people at higher risk for colon cancer, these include those who have ulcerative colitis or Crohn's disease, and those with a history of breast, uterine or ovarian cancer.



## Risk Factors

- Older age
- Genetics
- Family history of colon cancer
- Exposure to radiation
- Sedentary lifestyle
- High fat diet
- Alcohol consumption

## Clinical Symptoms

- Changes in bowel habits
- Frequently feel full or bloated
- Unexplained weight loss
- Blood in the stool
- Fatigue
- Nausea





# Colon Cancer

## Prevention



### Diet

In order to prevent colon cancer, it is vital to improve one's diet and food choices. This is to prevent the development of intestinal polyps and excessive weight gain. A cleaner diet can be achieved by taking more fruits and vegetables, drinking adequate water, limiting fat intake and increasing fiber and probiotics intake for optimal digestion. Supplementing with additional calcium, folate and vitamin D has shown to decrease colon cancer risk as well.

Research has proven that the consumption of hydrogen water improves quality of life, immunity and longevity. Hydrogen has an antioxidant effect that neutralizes over-reactive oxygen molecules to produce a stable compound— water. Over-reactive oxygen molecules are produced when free oxygen molecules bind to electrons that were leaked out of the cell's powerhouse— mitochondria, potentially damage cells and genes which ultimately contribute to detrimental conditions, diseases and aging. Hydrogen is also capable of reducing inflammation, strengthening cell membranes, promoting fat metabolism and regulating gene expressions. Drinking hydrogen water is highly recommended to secure these health benefits.



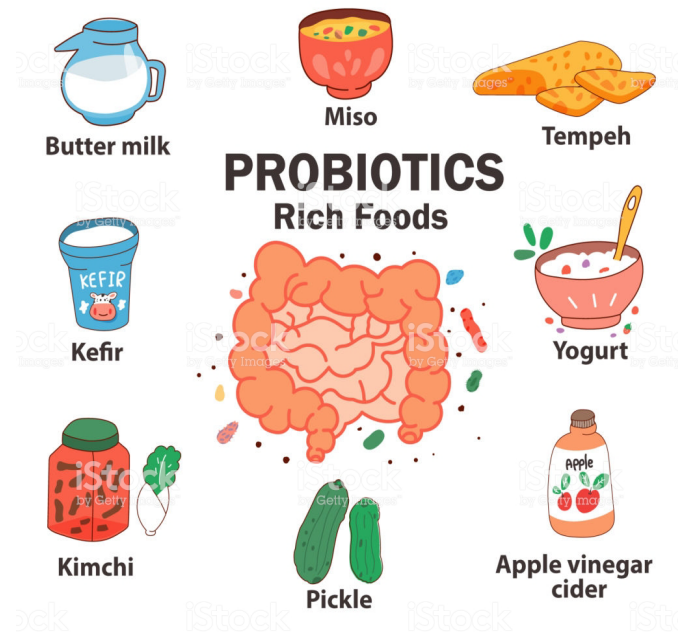
# Colon Cancer

## Lifestyle

Regular exercise helps improve peristalsis and bowel movements which promotes digestion and transition. If you are living a sedentary lifestyle, you may compensate by going to the gym, taking long walks and playing sports.

## Environment

In order to avoid temptation, it is wise to control what type of food you have in the refrigerator and shelves. Avoid purchasing meat with high fat content, canned or processed foods, and alcohol. Always opt for healthier options when it comes to snacking.



## Recommendations:

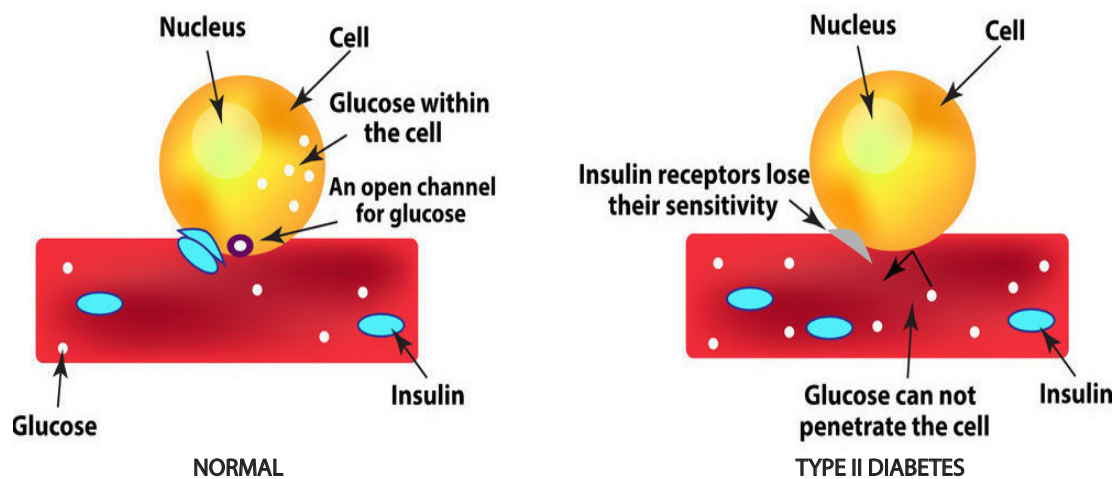
- Addressing small polyps before they become cancerous
- Avoid diets high in fat, alcohol, protein, calories, red and white meat
- Use of aspirin may decrease the risk of colon cancer
- Increase probiotic intake— good bacteria helps keep bad bacteria at bay
- Consume apple cider vinegar— beneficial to intestinal flora
- Eat foods rich in fiber



# Type II Diabetes

Diabetes is a chronic condition that impairs the body's ability to metabolize glucose, our primary source of fuel. Type II diabetes can be caused by either low production of insulin hormones for the regulation of blood sugar levels, or the body's resistance to the effects of insulin.

This condition eventually exhausts the pancreas, resulting in a decrease in the production of insulin hormone, causing higher blood sugar levels. There is no cure for this condition, but adopting positive lifestyle changes has shown to help manage the condition. The cornerstone of Type II diabetes management is by adopting a healthy diet, regular physical activity and maintaining a healthy body weight.



## Symptoms

- Increased thirst and hunger
- Frequent urination
- Unintended weight loss
- Fatigue
- Blurred vision
- Slow-healing sores and wounds
- Frequent infections

## Risk Factors

- Age
- Being overweight
- Physical inactivity
- Family history
- Race — Caucasians are less susceptible
- Having polycystic ovarian syndrome

# Type II Diabetes

## Prevention



### Dietary Guidance

#### *Scheduled meals*

Have at least three meals a day at specific time brackets, following recommended daily servings to avoid overeating.

*Avoid high-sugar foods* (sugar, rock sugar, brown sugar, glucose, maltose, honey, toffee, fruit candy, canned fruit, sugary drinks, cream cake, chocolate, ice-cream, starchy food)

#### *Avoid food rich in saturated fatty acids*

This includes fats, lard, animal skin, beef, and canned meat.

#### *Avoid high cholesterol foods*

High-cholesterol foods: egg yolk, squid, cuttlefish, animal offal, shrimp cake and so on.

*Consume more high-fiber food* (buckwheat noodles, cornmeal, oats, noodles, sorghum, rice, mung beans, spinach, celery, chives, bean sprouts, seaweed)

### Lifestyle Guidance

- Strive for ideal body weight through physical activity and a healthy diet.
- Avoid active and passive smoking.
- Refrain from drinking alcohol.



### Nutritional Recommendations:

- Avoid fish oil supplements that contains para-aminobenzoic acid
- Avoid salt and white flour products
- Do not take extremely large doses of vitamins B1, B3 and C
- Propolis, baby bittergourd and fenugreek helps lower blood sugar levels
- Take more chromium-rich foods(wheat germ, cabbage, tomato, onion, etc)
- Take more selenium-rich foods(mushrooms, algae foods, etc)
- Take more zinc-rich foods(walnut, apricot, chestnut, hazelnut, etc)