

# The Silent killer

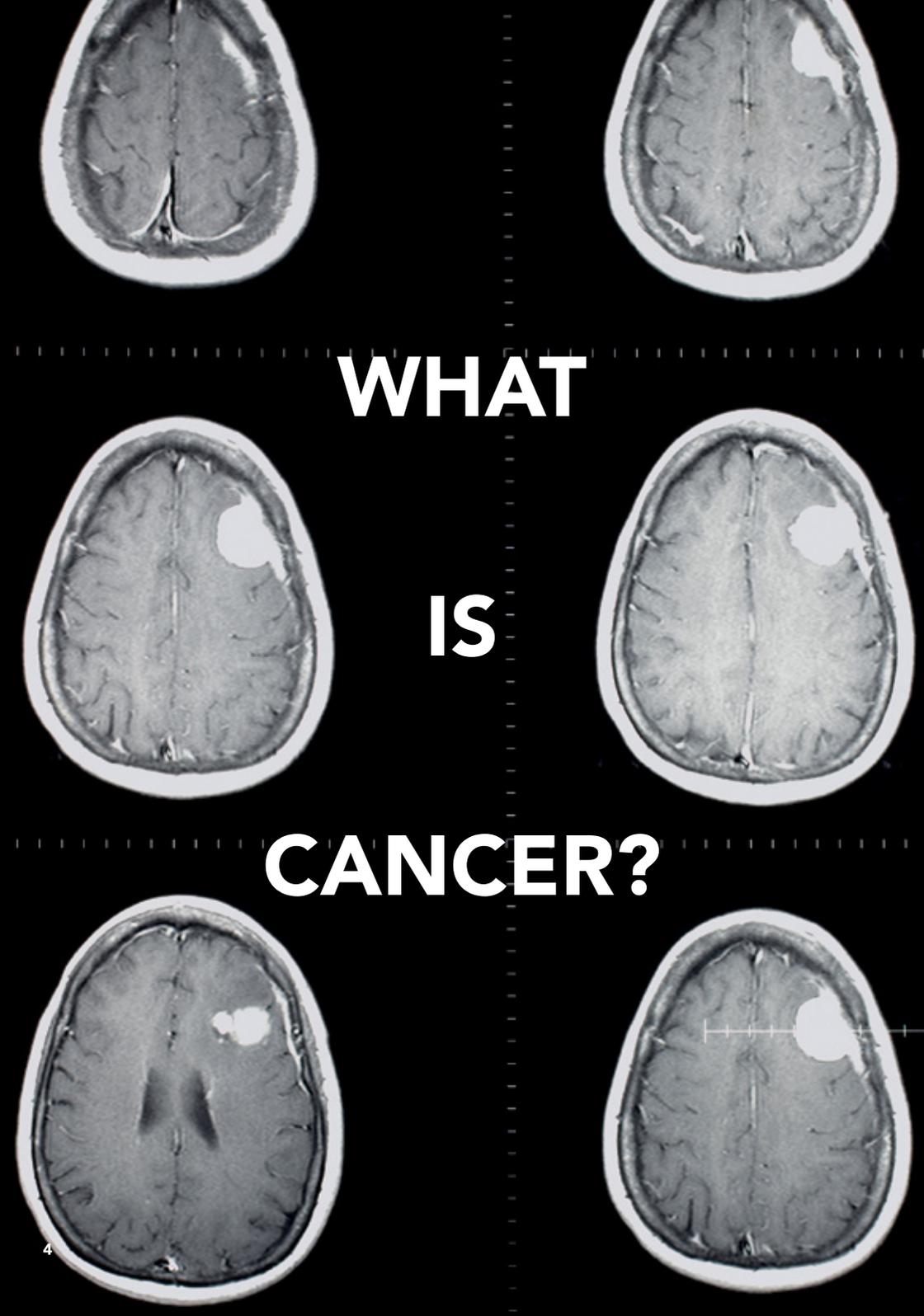


**WHAT WE DO  
KNOW ABOUT  
CANCER**





*“Cancer is one of the leading causes of death in Australia, killing more than 43,000 people in 2011. Over 100,000 new cases are diagnosed each year, with that number set to rise to 150,000 by 2020.”<sup>1</sup>*



WHAT

IS

CANCER?

Our cells are growing or renewing themselves everyday, with this process being controlled by the cells' genetic blueprint. If something causes a mistake to occur in this blueprint, cell growth can get out of control. Cancer is the word we use to describe the result of our body cells multiplying in an uncontrolled manner. The human body is continually making new cells (for growth and repair), but the process can become disorderly if damage occurs to the genes that control cell division. All cancers are caused by genetic damage—damage that can occur during our lifetime. The majority of damage is caused by environmental factors, such as lifestyle, environmental pollutants and radiation.

The damaged cells may grow into a mass of cells or a lump called a tumour. A tumour can be benign (not cancerous), meaning it doesn't spread to other parts of the body, or it can be malignant (cancerous), having the potential to spread and affect other body organs. Cancerous cells can originate from any type of body tissue, resulting in many different types of cancer.

When it first develops, a malignant tumour is confined to its original site. This is called the primary cancer. If left untreated, these cells may spread into surrounding tissues and then to other parts of the body via the blood stream or lymphatic system. The cells may continue to grow and form another tumour at the new site. This is called a secondary cancer or metastasis.<sup>2</sup>

### WHAT CAUSES CANCER?

While some substances have been identified as cancer-causing agents (i.e. carcinogens that readily damage the DNA), the many causes for cancer are still being identified. Nevertheless, research has revealed a range of lifestyle behaviours that can raise or lower the risk for a variety of cancers.

About 30% of cancer deaths are attributed to five leading behavioural and dietary risk factors: 1) being overweight or obese, 2) low fruit and vegetable intake, 3) lack of physical activity, 4) smoking and 5) alcohol use.<sup>3</sup> In Australia, more than 13,000 cancer deaths each year are due to smoking, sun exposure, poor diet, alcohol, inadequate exercise or being overweight.<sup>4</sup>



The cancer smart lifestyle

According to the Cancer Council of Australia, there are five key behaviours people can adopt to have the greatest impact on reducing their risk of developing cancer:

- ✓ **DON'T SMOKE**  
(or if you do, quit)
- ✓ **DON'T DRINK ALCOHOL**
- ✓ **TAKE SENSIBLE SUN PROTECTION ACTION**
- ✓ **EAT WELL**
- ✓ **MOVE MORE**

These recommendations are in line with eight recommendations made by the World Cancer Research Fund (WCRF) in its 2007 Expert Report. This comprehensive publication was based on in-depth analysis of more than 7,000 scientific studies on cancer prevention published during the last 50 years.<sup>5</sup>

## ✓ DON'T SMOKE

With fewer than 20% of Australians now smoking,<sup>6</sup> most people have clearly got the message that smoking is a harmful habit. Tobacco smoke contains over 60 cancer-causing chemicals.<sup>6</sup> One example is Benzo(a)pyrene, which damages an important gene called the P53 gene.<sup>7</sup> The role of P53 is to prevent uncontrolled cell multiplication—or in other words prevent cancer.<sup>8</sup> When the gene is damaged by tobacco smoke it can no longer perform this crucial role.

Smoking is the greatest preventable cause of cancer, causing 20-30% of all human cancers.<sup>9</sup> It is estimated there are 1.5 million new cases of lung cancer each year worldwide, and approximately 85% of these are caused by tobacco smoking.<sup>9-11</sup> In 2005 there were over 8,000 deaths from smoking-related cancers in Australia, with over 5,700 being due to lung cancer. Smoking is also linked to many other cancers, including cancers of the mouth, larynx, oesophagus, bladder and anus.<sup>12</sup>

## ✓ DON'T DRINK ALCOHOL

Alcohol is a known cancer-causing substance. According to the Cancer Council of Australia, "Any level of alcohol consumption increases the risk of developing an alcohol-related cancer; the level of risk increases in line with the level of consumption." Further, "There is convincing evidence that alcohol use increases the risk of cancers of the mouth, pharynx, larynx, oesophagus, bowel (in men) and breast (in women), and probable evidence that it increases the risk of bowel cancer (in women) and liver cancer. Smoking and alcohol together have a synergistic effect on cancer risk, meaning the combined effects are significantly greater than individual risks added together."<sup>13</sup>

The Cancer Council encourages people to "Limit their consumption of alcohol, or better still avoid alcohol altogether"<sup>10</sup> if they want to reduce their risk of cancer. The World Cancer Research Fund (WCRF) in its 2007 Expert Report acknowledged that, "The evidence on cancer justifies a recommendation not to drink alcoholic drinks." The report also recognised that there is no known amount of alcohol that can be consumed without increasing your risk of cancer.<sup>5</sup>



*But isn't alcohol good for your heart?*

Much has been written about the possible heart-health benefits of drinking red wine. According to the Cancer Council, "There is evidence to suggest that drinking small amounts of certain types of alcohol, such as red wine, can reduce the risk of developing cardiovascular disease. Cancer risk, however, increases from the first alcoholic drink you have."<sup>14,15 16</sup>

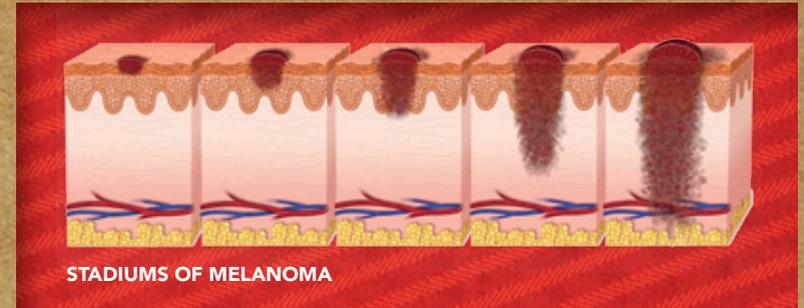
Furthermore, a study published in *Circulation*, the journal of the American Heart Association, found that the flavonoids (a type of phytochemical) in purple grape juice likely protect against cardiovascular disease, even in the absence of alcohol. The researchers found that drinking purple grape juice reduced the likelihood of LDL cholesterol being oxidised—a key process in cardiovascular disease. Drinking grape juice also improved the ability of major blood vessels to expand when blood flow increases—another important factor in decreasing cardiovascular events such as heart attacks.<sup>17</sup> All this without any alcohol in sight!



## ✓ TAKE SENSIBLE SUN PROTECTION ACTION

Each year, nearly 2,000 Australians die from skin cancer<sup>18</sup>—a disease that is almost completely preventable. Australia has one of the highest rates of skin cancer in the world, with 2-3 times the rate found in Canada, the United States and the United Kingdom.<sup>19,20</sup> Nearly all skin cancers are caused by exposure to the ultraviolet (UV) radiation in sunlight. In particular, 95% of melanomas—the most deadly form of skin cancer—are caused by sunburn.<sup>21</sup> For the best chance of preventing skin cancer, use a combination of sensible sun protection measures:

- Cover up with clothing
- Use sunscreen
- Wear a hat and sunglasses
- Spend time in the shade
- Be cautious between 10am and 3pm when UV levels are at their peak.<sup>21</sup>



## *Deadly Melanomas*

Melanoma is caused mainly by intense, occasional UV exposure (frequently leading to sunburn), especially in those who are genetically prone to the disease.<sup>22</sup>

If you suspect you have a melanoma, see your doctor urgently. Don't put it off or just keep thinking about doing it. If not recognised and treated early, melanoma can develop and spread rapidly to other sites around the body where it can be hard to treat and become fatal. While it is not the most common of the skin cancers, it accounts for the 75% of skin cancer deaths.<sup>22,23</sup>

The acronym ABCDE, is used for recognising melanomas, the most important sign to look out for is 'new or changing skin lesion':<sup>24,25</sup>

**A**symmetrical mole, brown spot or growth on the skin

**B**order of the spot is uneven, scalloped or notched

**C**olour—the spot has multiple or unusual colours

**D**iameter is usually larger than 6mm (but can initially be smaller)

**E**volving—changing size, shape, colour or any other feature

## ✓ EAT WELL

What does it mean to eat well in the context of cancer prevention?  
There are four key principles to follow:

### 1. EAT MORE PLANT FOODS

Fruit and vegetables are rich in fibre, vitamins, minerals, anti-oxidants and phytochemicals, all of which act in the body to help protect against cancer.

It is likely that these nutrients work in together, rather than individually, to reduce cancer risk. Fruit and vegetables contain varying amounts and types of these nutrients, so variety is the key. Fruit choices should include citrus, berries, and red, orange and yellow-coloured fruit. A variety of vegetable types should be consumed, including cruciferous (e.g. broccoli), allium (e.g. onions, leeks), dark green leafy vegetables, and red, yellow and orange-coloured vegetables.

It is wise to eat both raw and healthfully cooked vegetables, as there are some cancer-fighting agents which are absorbed better from cooked fruit or vegetables.<sup>26,27</sup>

Interestingly, some of the starch in whole, unprocessed plant foods is not digested by human enzymes and is instead fermented by bacteria in our large intestine. The fatty acids produced by this bacterial action are important for bowel health and may protect against bowel cancer.<sup>28</sup>

The WCRF Expert Report recommended eating:

- at least five serves (400g) of vegetables and fruits every day
- unprocessed grains and/or legumes with every meal
- limited amounts of refined, starchy foods

According to the report, most diets that have cancer-protective agents are made up mostly of plant foods.<sup>5</sup>



## *What about soy?*

Does soy cause breast cancer? Or does it protect against it? There has been much confusion over this issue in the minds of the general public. The concern arose in part because of the fact soy contains isoflavones which are similar to oestrogens. This caused unease because oestrogens are known to be linked to hormonally-sensitive cancers such as breast cancer. However, the potency of isoflavones in soy is only a fraction of human oestrogen, and soy isoflavones also have anti-oestrogen, anti-oxidant and anti-inflammatory properties, all of which work to reduce cancer risk. Studies in humans to date have clearly demonstrated that no harm is caused by eating soy foods—both in the general population and in breast cancer survivors. This statement doesn't necessarily apply to soy supplements.<sup>29</sup>

Moderate consumption of soy foods may even lower cancer risk, but this is not certain from the relatively low amounts of soy that Westerners eat. A recent review of the research concluded that the amount of soy consumed by Asian populations may have protective effects against some cancers such as breast cancer.<sup>30</sup>



## 2. EAT LESS RED AND PROCESSED MEAT

The Cancer Council of Australia states, "There is evidence to suggest that diets high in red meat (particularly processed meats such as salami or ham) can increase the risk of developing cancer", in particular bowel and oesophageal cancers. They recommend minimising processed meat, and advise people who eat red meat to "Eat small serves of lean meat and limit it to 3-4 times a week. Incorporate chicken and fish into other meals or try vegetarian alternatives."<sup>31-33</sup>

## 3. AVOID SALTY FOODS

Research shows that high salt diets seem to increase the risk of stomach cancer, which is currently the fourth most common cause of death from cancer in Australia.<sup>34,35</sup>

In the WCRF Expert Report, one of its eight key recommendations for preventing cancer advised a limited consumption of salt. The report specifically targeted salty and salt-preserved foods, but also turned its attention to less obvious dietary salt. The report recommended people limit their consumption of processed foods with added salt to ensure an intake of less than 6g of salt—or 2.4g of sodium—per day.<sup>5</sup>

## 4. MAINTAIN A HEALTHY WEIGHT

The WCRF found that maintaining a healthy weight throughout life may be one of the most important ways to protect against cancer.<sup>5</sup>

According to the Cancer Council of Australia, "Being overweight or obese increases your risk of developing certain types of cancer, including bowel and (post-menopausal) breast cancer, as well as cancers of the endometrium, kidney and oesophagus. Three per cent of cancer deaths are attributed to having a body mass index (BMI) over 25kg/m<sup>2</sup>."<sup>36</sup> Excess fat around the stomach, and obesity, are well-documented risk factors for these cancers.<sup>37</sup> "Reducing weight by even 5-10% for overweight/obese individuals greatly decreases the chances of developing cancer."<sup>38</sup> The WCRF found that consumption of sugary drinks and energy-dense foods (such as high fat foods) is increasing world-wide and probably contributing to the global increase in obesity.<sup>5</sup> They recommended limiting or totally avoiding these foods.

## ✓ MOVE MORE

Studies have found that being physically active helps to protect against cancer, even if you are overweight. If exercise helps you lose weight, that gives an additional advantage.

According to the Cancer Council of Australia, "Doing little or no physical activity is associated with a higher risk of developing certain types of cancer. Physical inactivity is responsible for 14% of colon cancers and 11% of post-menopausal breast cancers—and probably contributes to many other cancers. Being more active can also reduce body weight, another factor that influences the risk of developing cancer."<sup>39-41</sup>

The specific recommendations made by the WCRF Expert Report into cancer prevention are to:<sup>5</sup>

- be moderately physically active (e.g. brisk walking) for at least 30 minutes every day
- as fitness improves, increase to 60 minutes of moderate activity, or at least 30 minutes of more vigorous physical activity
- limit sedentary habits such as watching television





## THE BOTTOM LINE

There are no guarantees against cancer and many factors are yet to be identified and understood. But decades of evidence, scrutinised by strict scientific standards, has clearly demonstrated the protective effects of eating a healthy diet high in plant foods, being physically active and sun-smart, and avoiding cigarettes and alcohol. By adopting these practices, we can reduce the opportunities for cancer-causing DNA damage while maximising our body's ability to prevent and repair any damage.

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