

Why Tall Individuals are More Prone to Cancer

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Executive Summary:

Cancer has many definitions. Human has capacity to store cancer in long time and early cancer is healthy that can kept under control. The hidden survival cancer cell in body missed by modern physicians that keep millions of men and women defeated by cancer, frustrated with cancer, and struggling to feel energized every day. It has modern, man-made disease caused by environmental factors such as pollution plus diet that can change the blood circulation.

Introduction:

For most cancers, risk increases dramatically with age. But what about the effect of having more cells in the body? Might taller people be more prone to cancer because they have more cells? Yes, according to researcher, who examined data from four large-scale surveillance projects on 23 cancer categories. Each of these cancer studies established that tall individuals are at an increased risk of cancer, with overall risk increasing by about 10 percent per 10 centimetre (4 inch) increase in height [1]. Researchers have proposed that that factors acting early in life nutrition, health, social conditions independently influence height and cancer risk. It has challenges this hypothesis. Tested the alternative hypothesis that height increases cell number and that having more cells directly increases cancer risk. The data strongly supported this simple hypothesis. For most cancers, the size of the height effect is predictable from the height-related increase in cell number. [2]" Study results performed a comparison of the observed effect of height on the risk of specific cancers for both women and men, found that the effect of being tall on the risk of thyroid and skin cancer pulp was high in women; for men, skin cancer stood out. "Tall individuals are at increased risk of almost all cancers, "But skin cancers such as melanoma show an unexpectedly strong relationship to height. This may be because the hormone IGF-1 is at higher levels in taller adults." IGF-1 is a growth factor that is particularly important in early development, but IGF-1 has also been linked to a higher rate of cell division in tall adults [3]. "If cells divide more often, then that adds to cancer risk."If skin cells are dividing more rapidly in tall people due to high levels of IGF-1, then this could account for the increased risk for melanoma." Of the 18 cancers scored in both sexes, Nunney found only four showed no significant increase with height in either sex: pancreas, esophagus, stomach, and mouth. "It is possible that these cancers are more strongly associated with environmental factors."It has, too, that in these tissues cell numbers do not scale with body size but this seems unlikely." Nunney explained that two factors cause increased cancer risk: one is having more cells; the other is having more cell divisions [4]. "If double the cells, double the cancer risk. "If double the number of cell divisions, more than double the cancer risk. Living a long time is the worst thing to do if want to avoid cancer [5]. But then what is the alternative?" Men are taller than women

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on average, which may account for why men get more cancer than women. "About a third of this effect can be accounted for by men having more cells." But something else is going on to explain the rest." Breeds of dogs also demonstrate cancer's link to height. "Smaller dogs get less cancer than bigger breeds of dogs. [6]" Next, Nunney plans to explore how different cancers are being prevented in the body by looking at big long-lived animals. "If all else is equal, large, long-lived animals should experience higher incidence of cancer than small, short-lived animals." After all, larger animals have more cells, more divisions, and more mutations. But they show no such tendency to be more cancer prone. This is called Peto's paradox, and I argue it can be resolved through adaptive evolution, namely, that species subject to selection for larger body size and greater longevity evolve additional layers of cancer suppression [7]. I'm interested in exploring how as a species gets bigger and lives longer, it evolves additional barriers to cancer. [8,9]"

Conclusion:

Cancer cells lose the controls (tumor suppressor genes) that tell them when to stop growing. A mutation in a tumor suppressor gene allows cancer cells to continue growing and accumulating. It make mistakes when repairing DNA errors. DNA repair genes look for errors in a cell's DNA and make corrections. A mutation in a DNA repair gene may mean that other errors are not corrected, leading cells to become cancerous.

References:

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