

**Commentary** 

Volume 1; Issue 1

# Why Short Individuals are More Prone to Cancer

## **Rahul Hajare\***

Fellow Indian Council of Medical Research, India

\*Corresponding author: Dr. Rahul Hajare, Scientific Researcher, Fellow Indian Council of Medical Research ,New Delhi,

India, Email: rahulhajare17@gmail.com

Received Date: November 29, 2018; Published Date: December 05, 2018

#### **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 shorter 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 short 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 short on the risk of thyroid and skin cancer pulp was high in women; for men, skin cancer stood out.

Short 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 shorter 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 short adults [3]. If cells divide more often, then that adds to cancer risk. If skin cells are dividing more rapidly in short 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, oesophagus, 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 because 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 wants to avoid cancer [5]. But then what is the alternative? "Men are shorter than women 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 longlived 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 makes 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

- 1. Rahul Hajare, Ramesh Paranjape (2018) New "Cancer Pill" Renders Chemo Obsolete. IPSR| 1(1): 1-3.
- 2. Rahul H (2018) Classical Drug Serratia Marcescens L-Asparaginase and Anticancer Activity In Vitro.

Advancements Bioequiv Availab 1(5): ABB.000524.2018.

- Rahul Hajare (2018) A Phase I Drug Discovery And One-, Two-, And Three-Class Of Indoline-2,3-Dione Testing For Anticancer And Cytotoxic Activity. Organic & Medicinal Chem IJ 6(2): 555682. Doi: 10.19080/Omcij.2018.06.555682.
- 4. Rahul H (2018) Cancer Testing For Women Begins At 21.Cohesive J Microbiol Infect Dis 1(4). Cjmi.000516.2018.
- 5. Rahul Hajare (2018) Correlates of Breast Cancer and Indole-3-Carbinol: Medicinal Development And Strategies Of Natural Products. J Anesth Pain Med 3(2): 2.
- 6. Hajare R (2018) The Curve Penis May Hold Secret To Cause Of Cancer. A Profile Of Primary Level Attending Review Treatment. J Nanomed Nanosci Jnan-143. Doi: 10.29011/Jnan-141. 100043.
- Rahul Hajare (2017) Response To A 2-Indolinones Laboratory Based Regimen Analogous In Cancerous-Infected Cells. Biomed Res Ther 4(S): S74-S75, Doi 10.15419/Bmrat.V4is.280.
- Hajare R (2017) Can Otolaryngology Capture Window Cancer In Middle Adulthood? Ann Clin Lab Res 5(4): 205.
- 9. Rahul Hajare (2018) Record linkage of anti-HIV activity and cancer activity match isatin scaffolds attending research and development from medicinal chemistry laboratory. Journal of Advances in Chemistry 6199-6206.