

Blood Cancer Risk Factors

(Including but not limited to)

This is a compilation of risk factors. Not all risk factors listed are necessarily risk factors for every type of blood cancer. Please see the sources at the end for more information

1. Radiation Exposure 1, 2, 3, 5, 6
2. Certain Chemical Exposures
 - a. Benzene 1, 2, 3, 5, 6
 - b. Certain insecticides and herbicides 3
 - c. Agent Orange (@ risk for developing Chronic Lymphocytic Leukemia and other blood cancers) 5, 6
3. Certain chemotherapies
 - i. Alkylating agents 2, 5
 - ii. Platinum agents 5
 - iii. Topoisomerase II inhibitors 2, 5
4. Certain Viral Infections
 - a. HTLV-1 1,3
 - b. EBV (@ higher risk for developing Hodgkin Lymphoma) 1, 3, 4, 5
 - c. HIV and/or AIDS 3, 4, 5
 - d. HHV-8 3
5. Certain Genetic Disorders
 - a. Down Syndrome 1, 2, 5, 6
 - b. Klinefelter syndrome 1
 - c. Fanconi anemia 1, 2, 5, 6
 - d. Bloom syndrome 1, 2, 5, 6
 - e. Ataxia-telangiectasia 1, 2, 3, 5, 6
 - f. Neurofibromatosis type 1, 2, 5
 - g. Li-Fraumeni syndrome 1, 2
 - h. Diamond-Blackfan anemia 2, 5
 - i. Schwachman-Diamond syndrome 2, 5
 - j. Severe congenital neutropenia (Kostmann syndrome) 2, 5
 - k. Trisomy 8 2, 5
6. Chronic Immune Stimulation 3
 - a. Helicobacter Pylori
 - b. Chlamydoophila psitataci
 - c. Campylobacter jejuni
 - d. Hepatitis C Virus
7. Autoimmune Diseases 3, 4, 5, 6
 - a. Systemic Lupus Erythematosus
 - b. Sjogren disease

- c. Celiac disease ³
- 8. Organ Transplant Recipients with anti-rejection medications that suppress the immune system ^{3, 4, 5}
- 9. Smoking ^{2, 6}
- 10. Breast implants, rare, but can increase the risk of Anaplastic Large Cell Lymphoma ³
- 11. Body weight and diet ^{3, 5, 7}
- 12. Age ^{1, 2, 4, 7}
 - a. Example: ALL is more common in children and adults over 50 ¹
 - b. Multiple Myeloma risk factor increases with age ⁷
- 13. Race/ethnicity
 - a. ALL is more common in African Americans, but the reason for this is not clear ¹
 - b. In the United States, NHL is more common in Caucasians than African Americans or Asian Americans ³
 - c. Those Eastern European Jewish descent have a higher incidence of Polycythemia Vera ⁵
- 14. Gender ^{3, 4, 5, 7}
 - a. Example: the risk of NHL is higher in men than women, but certain types of NHL are more common in women than men. The reason for this is not known. ³
- 15. Having first degree relative with the same disease ^{2, 4, 5, 7}

Sources: all last accessed May 14, 2019

1. <https://www.cancer.org/cancer/acute-lymphocytic-leukemia/causes-risks-prevention/risk-factors.html>
2. <https://www.cancer.org/cancer/acute-myeloid-leukemia/causes-risks-prevention/risk-factors.html>
3. <https://www.cancer.org/cancer/non-hodgkin-lymphoma/causes-risks-prevention/risk-factors.html>
4. <https://www.cancer.org/cancer/hodgkin-lymphoma/causes-risks-prevention/risk-factors.html>
5. <https://blood-cancer.com/basics/causes/>
6. <https://www.mskcc.org/cancer-care/types/leukemias/risk-factors>
7. <https://www.cancer.org/cancer/multiple-myeloma/causes-risks-prevention/risk-factors.html>