cancer

**Cancer** is a group of diseases involving abnormal cell growth with the potential to invade or spread to other parts of the body. Unlike normal cells, cancer cells divide uncontrollably and can form masses called tumors. While not all tumors are cancerous, malignant tumors can be life-threatening. Cancer can begin in virtually any organ or tissue, such as the lungs, breast, colon, or skin. Common types include breast cancer, lung cancer, prostate cancer, and blood cancers like leukemia. Causes of cancer are multifactorial and include genetic mutations, environmental exposures, lifestyle habits such as smoking or alcohol use, and certain infections like HPV. The symptoms vary widely but may include unexplained weight loss, fatigue, lumps, pain, or changes in bodily functions. Early detection is crucial for improving treatment outcomes. Methods like biopsies, imaging scans, and blood tests help in diagnosis. Treatment options include surgery, chemotherapy, radiation therapy, immunotherapy, and precision medicine. Scientists are continually working on new therapies, including gene editing and personalized medicine. Prevention strategies, such as avoiding tobacco, eating a healthy diet, staying physically active, and getting regular screenings, can lower the risk. Public awareness, education, and funding for research are essential in the global fight against cancer.