## LOST TEMPLE FITNESS

<b>CANCER</b> Information and pictures from <i>National Cancer Institute</i> unless otherwise specified		
How Does Cancer Develop?	<ul> <li>Cancer is a genetic disease—that is, it is caused by changes to genes that control the way our cells function, especially how they grow and divide.</li> <li>Genetic changes that cause cancer can happen because: <ul> <li>o of errors that occur as cells divide.</li> <li>o of damage to DNA caused by harmful substances in the environment, such as the chemicals in tobacco smoke and ultraviolet rays from the sun. (Our Cancer Causes and Prevention section has more information.)</li> <li>o they were inherited from our parents.</li> </ul> </li> <li>The body normally eliminates cells with damaged DNA before they turn cancerous. But the body's ability to do so goes down as we age. This is part of the reason why there is a higher risk of cancer later in life.</li> <li>Each person's cancer has a unique combination of genetic changes. As the cancer continues to grow, additional changes will occur. Even within the same tumor, different cells may have different genetic changes.</li> </ul>	

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How Cancer Spreads	<b>Tissue.</b> The cancer spreads from where it began by growing 
When Cancer Spreads	A cancer that has spread from the place where it first formed to another place in the body is called metastatic cancer. The process by which cancer cells spread to other parts of the body is called metastasis. Metastatic cancer has the same name and the same type of cancer cells as the original, or primary, cancer. For example, breast cancer that forms a metastatic tumor in the lung is metastatic breast cancer, not lung cancer. Under a microscope, metastatic cancer cells generally look the same as cells of the original cancer. Moreover, metastatic cancer cells and cells of the original cancer usually have some molecular features in common, such as the presence of specific chromosome changes. In some cases, treatment may help prolong the lives of people with metastatic cancer. In other cases, the primary goal of treatment for metastatic cancer is to control the growth of the cancer or to relieve symptoms it is causing. Metastatic tumors can cause severe damage to how the body functions, and most people who die of cancer die of metastatic disease.
References	What is Cancer? National Cancer Institute https://www.cancer.gov/about- cancer/understanding/what-is-cancer