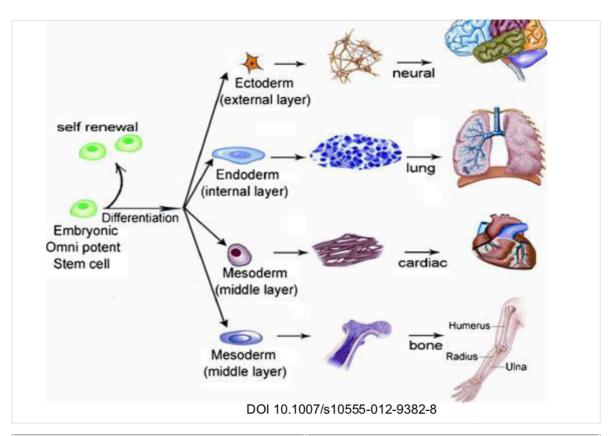
Cancer

- 1. What is cancer? Cancer is a group of related diseases which cells grow without restriction. They dont even die when they are damaged, and spread into nearby sites or distant tissues and organs of the body through circulations. More than 100 different diseases are called cancer
- 2. What is metastasis? Metastasis is the **spread of cancer** from the place where it first developed (the *primary site*) to other parts of the body.

Benign Tumors	Malignant Tumor
They do not	These tumor break
spread throughout	through the tissue
the body	boundaries, invade
	and metastasize.

Benign brain They are lifetumors can be life threatening because they can threatening. invade other organs impairing their functions They also compete They are not with healthy cancerous. They grow only locally tissues for nutrients and and cannot spread by invasion or oxygen metastasize

- 3. Where do cancer spread to? They spread to Lung, Liver, Lymph Nodes, Bones, Brain, Skin
- 4. Not all cancers spread to all organs. There is selectivity. Seed and soil hypothesis.



Ectoderm		Neural ne	erves
Endodern	n	Lungs	
Mesoderm		Cardiac muscles	
		and bone marrow	
Carcino	Sarcoma	Blood	Brain
mas	S	cancer	cancers

These Cancer Non-Caused of from epithelial are blood mesoder tumors cancer of mal forming arise from epithelial cells. tissues includin cells of cells Derived from central g middle immune and cells. layer/ peripher connecti al nervous ve tissues systemknown neuroect odermal as tumors sarcoma S.

EX: Included Ex bone, leukemia muscle, are fat, gliomas, cartilage glioblast Lympho ma and omas, multiple neurobla myelom stoma, schwann a omas and medullo blastom as

		Blood forming cells: RBCs, WBCs, T (Thymus) and B(bone marrow) cells, Platlets	Compris es of 1.3% of diagnos ed cancers but responsi ble for 2.5% of cancer
Adenocarcinomas		Squamou carcinom	
Cancers of tissues forming glands		Cancers of protective layers	
EX: Lung, Stomach, Uterus, Breast		EX: Skin, cavity	oral

5. Common tumors from epithelial cella are those of the GI tract- mouth, esophagus, stomach, small and large intestines, as well as of mammary gland, skin, pancreas, lung, liver, ovary,

uterus, prostate, gall bladder, and urinary bladder,

Laukamia	Lymanhamaa
Leukemia	Lymphomas
Malignant	Tumors of
derivatives of	lymphoid origin(T
blood cells that	and B cells) that
move freely in	aggregate to form
circulation and are	solid tumor
non pigmented	masses frequently
	found in lymph
	nodes account for
	7% cancer related
	mortality
Usually starts in	Originates in the
bone marrow	lymph nodes or
travels through	spleen
blood stream	

- 6. Lymphoma and leukemia are often called liquid cancers. They share common origin: lymphocytes or WBCs.
- 7. Teratoma: 'monster tumor' is a rare growth inside the human body that can have hair and teeth.

8. 2-4% of all tumors lose all the status of the tissue of origin. Tumors are called anapestic. Anaplastic tumors are often categorized as the cancer of the unknown origin.