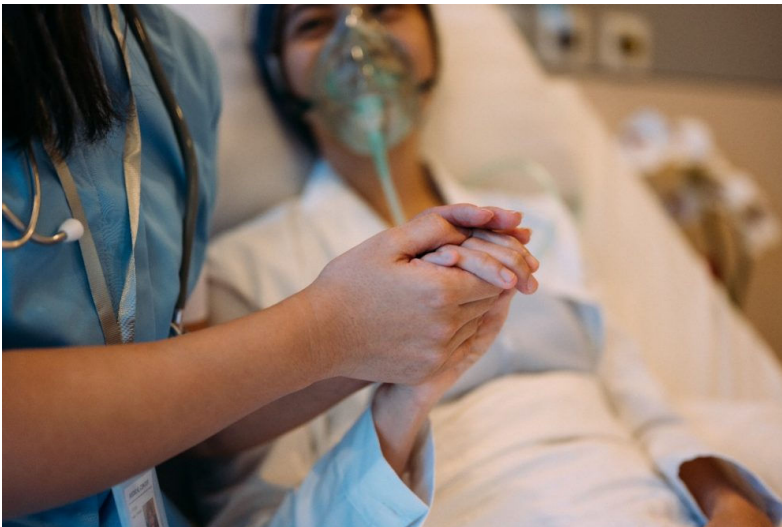




มหาวิทยาลัยราชภัฏนครปฐม  
Nakhon Pathom Rajabhat University

# Cancer and nursing management



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# Outline

- Oncology concept
- Chemotherapy
- Radiation
- CA breast
- Palliative care



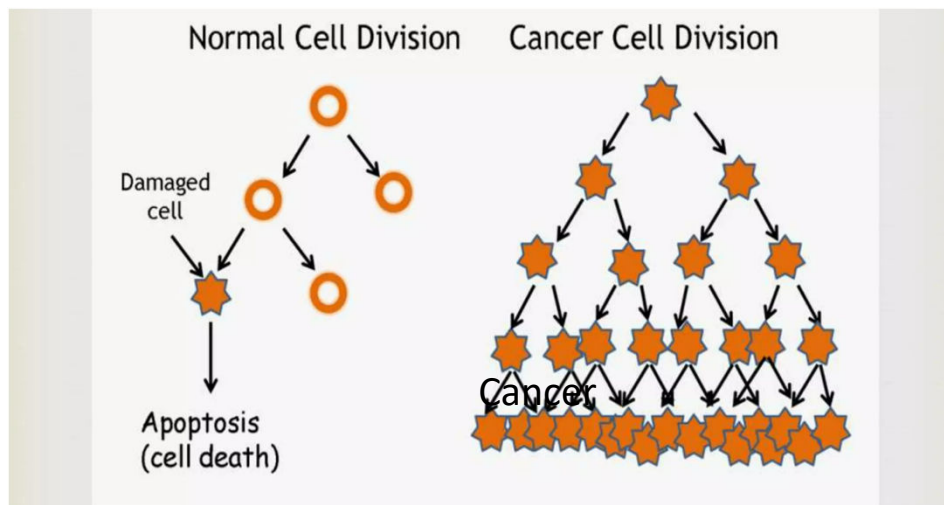
# Oncology concept

## Definition

**Oncology:** The branch of medical science dealing with tumors including the origin, development, diagnosis and treatment of benign and malignant tumors.

**Oncology is the branch of science that deals with the study of cancer**

# Cancer



Cancer is a group of neoplastic diseases in which there is a transformation of normal body cells into malignant ones.

OR

Uncontrolled and rapid growth of abnormal cells in human body and its invasion to adjoining parts of the body which may also spread to other distant organ from original site is called **Metastasis**.

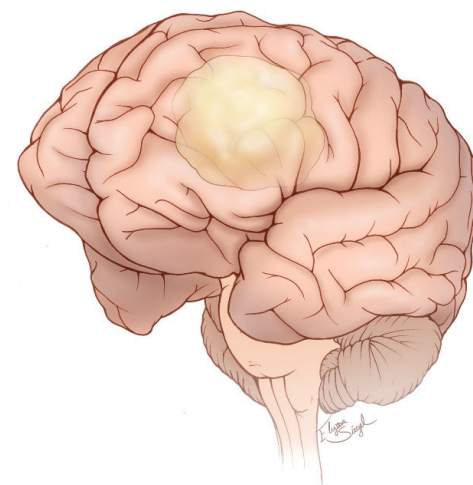
<https://savanacanary.weebly.com/unit-3.html>

# Tumor

A tumor, also known as neoplasm is an abnormal mass of tissue which may be solid or fluid-filled that can be either benign ( non-cancerous) or malignant (cancerous).

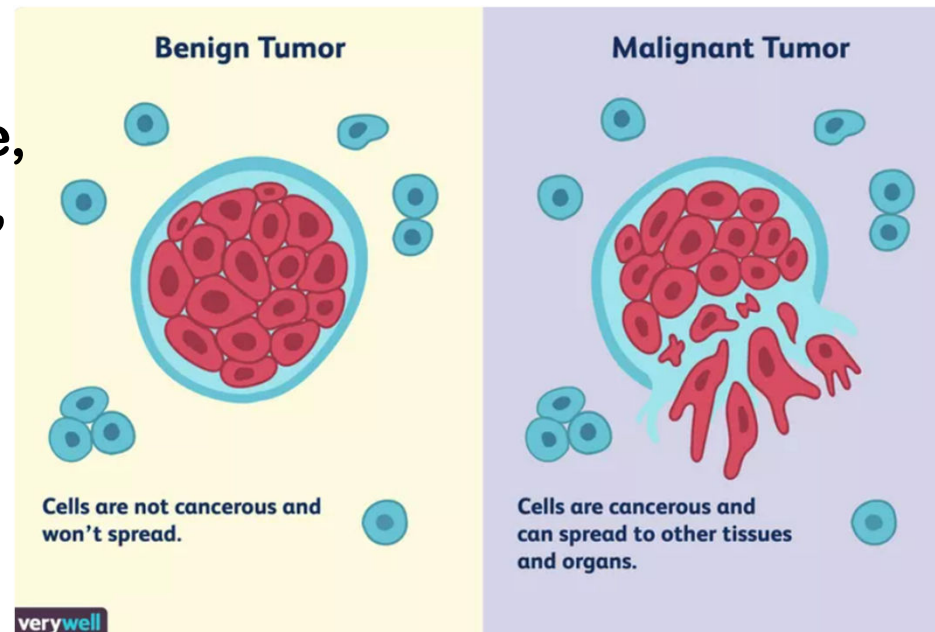
**Benign Tumors** aren't cancerous and can often be removed. In most of the cases they don't possess any health risk and don't come back.

**Malignant Tumor** are cancerous, they can invade nearby tissues and spread to other parts of the body.



## Benign

Slow growing,  
capsulated,  
Non Invasive  
do not metastasize,  
well differentiated,  
suffix oma eg.  
Fibroma.

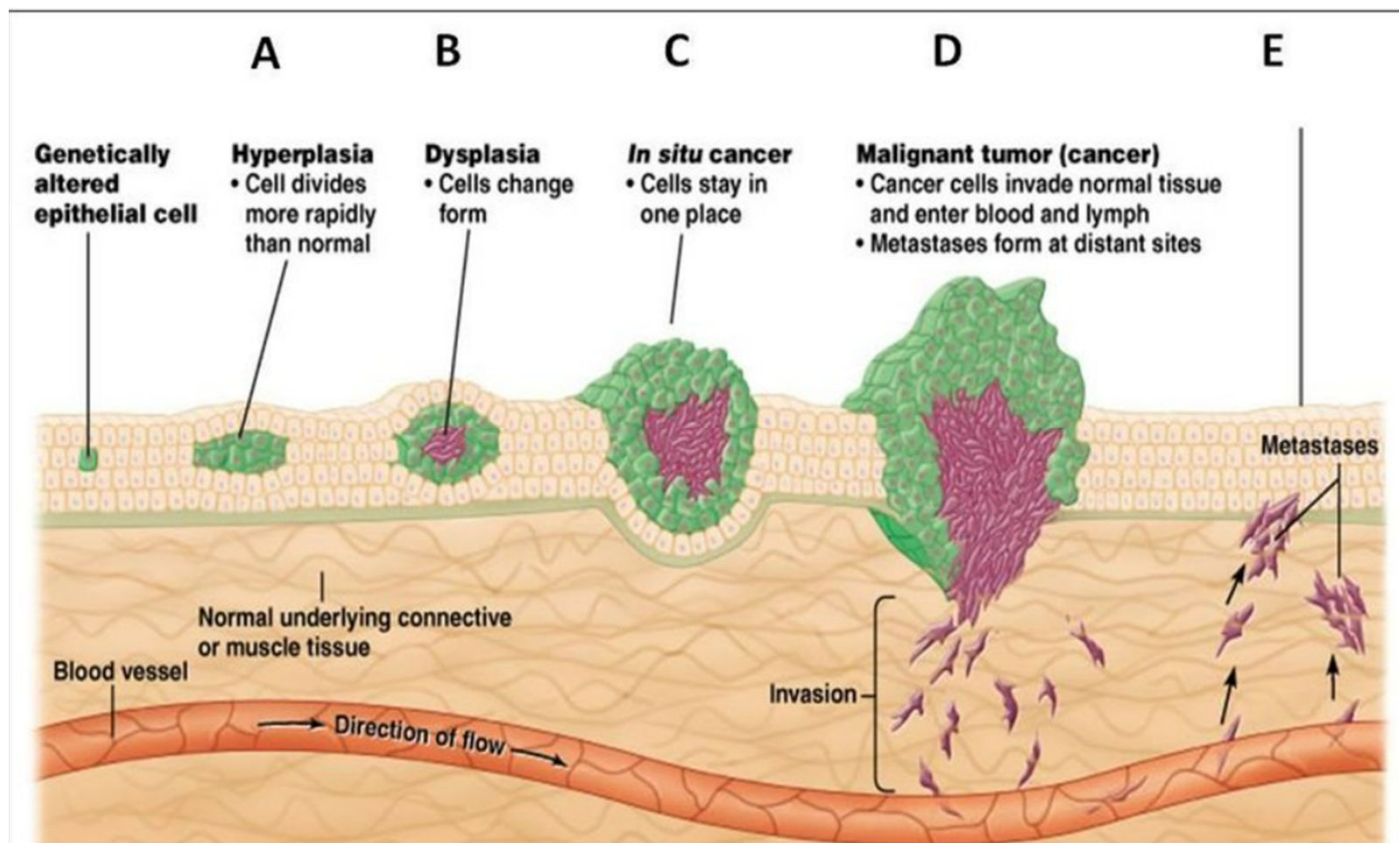


<https://www.verywellhealth.com/what-does-malignant-and-benign-mean-514240>

## Malignant

Fast growing.  
non capsulated,  
Invasive & Infiltrate  
Metastasize.  
poorly  
differentiated,  
Suffix "Carcinoma"  
"Sarcoma"

## Stages of tumor development and mechanism of metastasis



# Carcinogens

**carcinogen is something that can cause cancer.  
Examples includes cancer causing chemicals, viruses  
and environmental exposures.**

**Physical carcinogens: UV rays and ionizing radiations**

**Chemical carcinogens: Asbestos, Tobacco ,Smoke  
Arsenic**

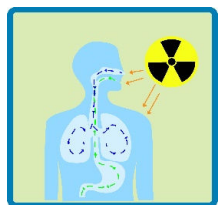
**Biological Carcinogens: Infection from micro-organisms**



# Risk factors of cancer

Cigarette smoking

Infections

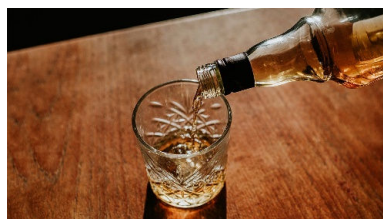


Radiation exposures

Immunosuppressive medicines



Diet



Alcohol

Obesity


Environmental factors












## 7 WARNING SIGNS OF CANCER

IF YOU EXPERIENCE ANY OF THE SIGNS LISTED BELOW, IT IS BETTER TO GET A CHECK UP. AS EARLY DETECTION OF CANCER CAN LEAD TO ITS CURE





- **1**  
A change in bowel or bladder habits
- **2**  
Unusual discharge or bleeding from any opening of the body
- **3**  
Unexplained weight loss or loss of appetite
- **4**  
Difficulty in swallowing or chronic indigestion
- **5**  
Lumps anywhere in the body
- **6**  
A nagging cough or hoarseness of voice
- **7**  
A sore that doesn't heal

For more information, contact:  
Dr. Amit Agarwal  
☎ 9311221315



## A Asymmetry

One half is unlike the other.

<b>GOOD</b>			<b>BAD</b> Have a doctor check it out
	Symmetrical	Asymmetrical	



## B Border

Blurry and/or jagged edges.

<b>GOOD</b>			<b>BAD</b> Have a doctor check it out
	Even edges	Uneven edges	



## C Colour

More than one shade or colour.

<b>GOOD</b>			<b>BAD</b> Have a doctor check it out
	One shade	Two or more shades	


## D Diameter

Greater than 6 mm.

<b>GOOD</b>			<b>BAD</b> Have a doctor check it out
	Smaller than 6mm	Larger than 6mm	

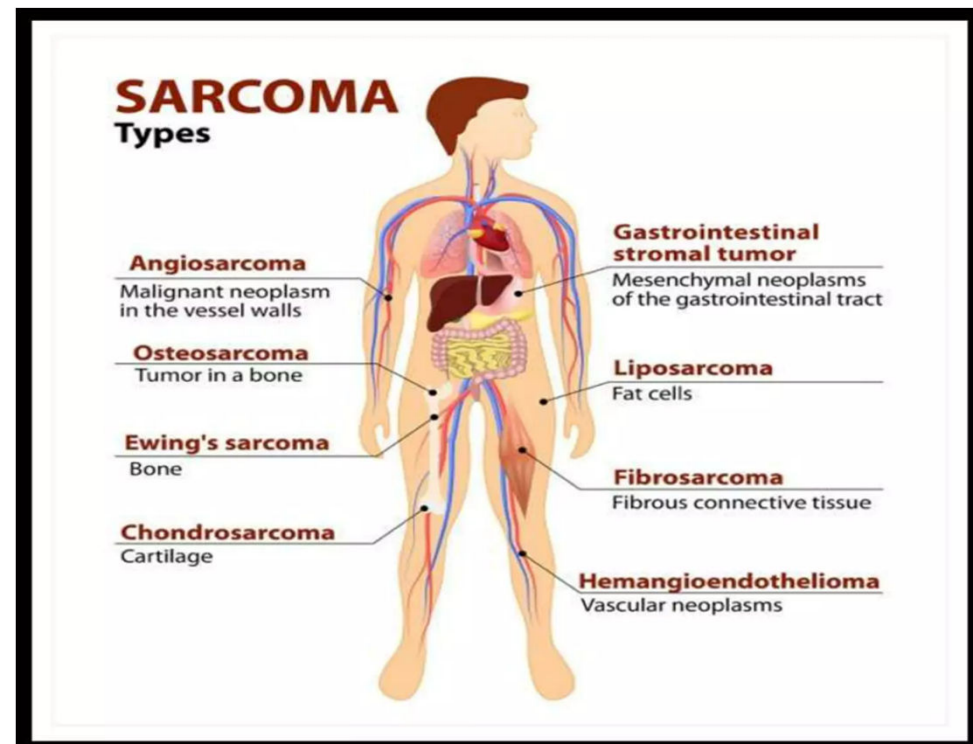
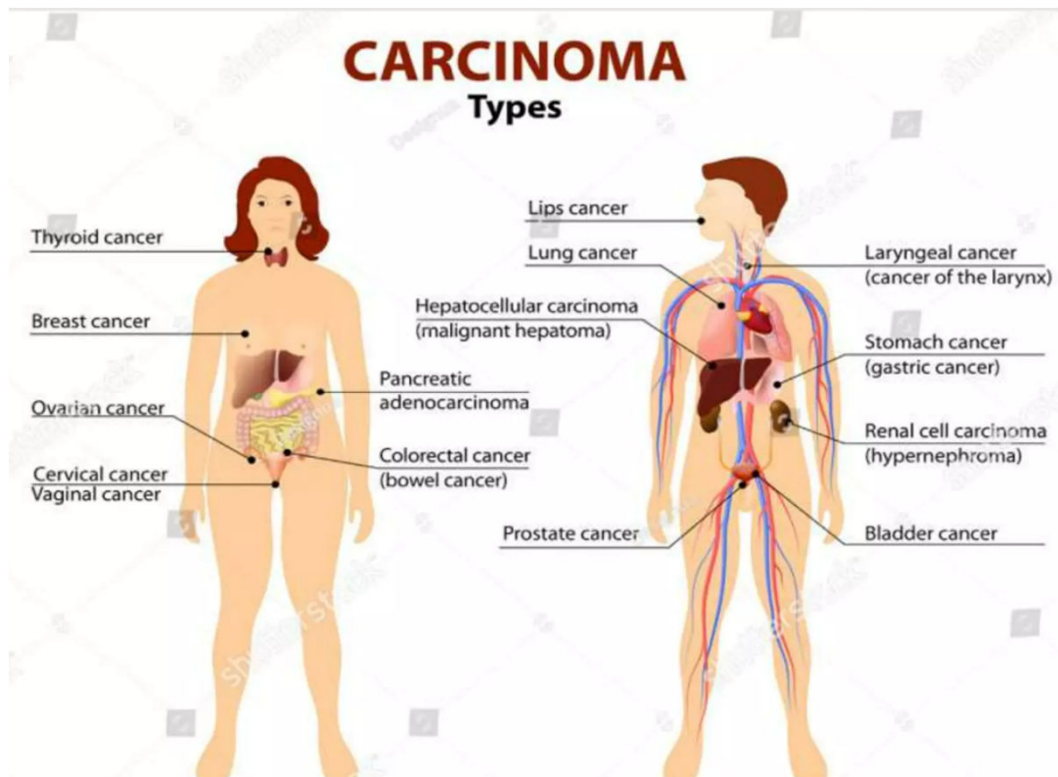
## E Evolution

Watch for changes over time. If your mole changes in size, shape or colour, it might be suspicious.



# Types Of Cancer

- ❖ It is divided according to boarder categories
- ❖ **Carcinoma: cancer that begins in the skin or in tissues that line or cover internal organs (epithelial tissues)**  
(epithelial cells are found in breast, skin, cervix, stomach prostate)
- ❖ **Sarcoma: cancer that begins in bone, cartilage, fat, muscle, blood vessels or other connective tissues.**
- ❖ **Leukemia: cancer that starts in blood forming tissues such as the bone marrow and causes large numbers of abnormal blood cells to be produced and enter the blood.**

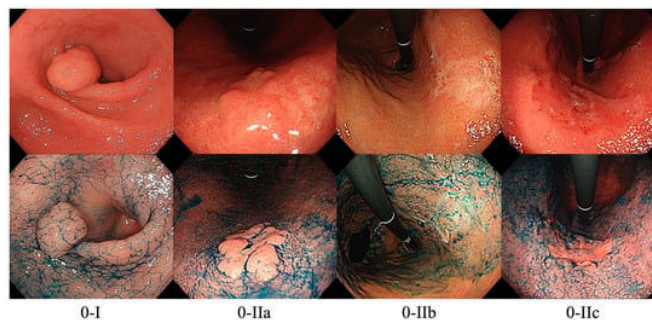
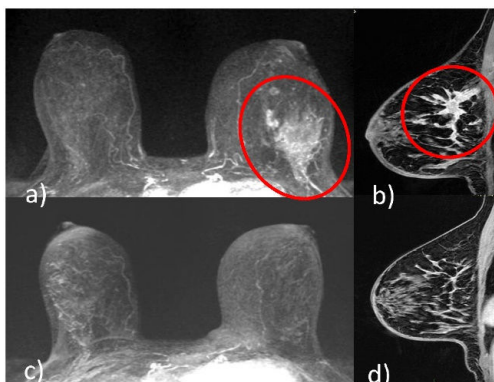


# Cancer Prevention

Level of Prevention	Tools	Objective
Primary	Removal/ reduction of risk factors	Avoiding onset of disease
Secondary	Early detection/ Screening/ Biopsy/Exfoliative cytology	Improving prognosis
Tertiary	Treatment of existing lesions	Curing Preventing death

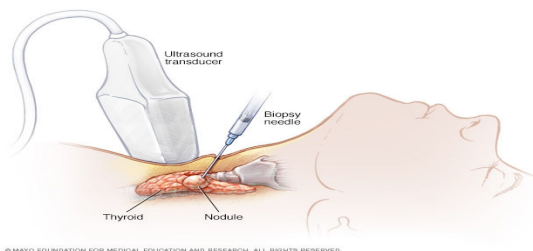
# Different diagnostic procedures for cancer

It may include tumors markers identifications, imaging studies, mammography, MRI, CT ,USG , endoscopy, smear, biopsy, nuclear medicine imaging.



# Biopsy

A cancer may be suspected of various reasons, but the definitive diagnosis of most malignancies must be confirmed by histological examination of the cancerous cells by a pathologist. Tissue can be obtained from a biopsy or surgery.



It means removal of small pieces of living tissue from an organ or a part of body for microscopic examination for the diagnostic purpose of benign, malignant other tumor.

# Patient preparation

## Before Procedure:

Explain the procedure

Collect all preoperative report blood grouping,  
complete blood count, bleeding time, clotting time  
consent

Assess vitals

Ready the biopsy set and assist if necessary

Gowning the patient and position maintain.

Expose the area of biopsy



# Patient preparation

## After procedure:

Assess the vital sign

Positioning the patient

Label the sample correctly

Explain about the medication, follow-up and report  
dressing and suture removal.

Proper dispatch the sample to the library

Recording and reporting.

