

Carcinogens (Part -2)



**By Dr. Shashi Prabha
HOD , Zoology Dept.
Karim City College**

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Carcinogens



Types of carcinogens:

- Chemicals
- Environmental radiations
- Medical radiation
- Viruses
- Some medication
- Lifestyle factors
- Pollution

Carcinogens



Environmental radiation:

- Ultraviolet radiation from the sun is a well-known cause of skin cancer.
- Radon emitted from the normal decay of uranium in the soil and then trapped in homes is the second leading cause of lung cancer.

Carcinogens



Medical radiation:

- Both radiation used medically for diagnostic tests and that used to treat cancer are considered carcinogens.
- For example, women who receive radiation therapy after a mastectomy for breast cancer are at an increased risk of developing lung cancer due to the carcinogenicity of radiation.

Carcinogens



Viruses:

- Viruses such as
- human papillomaviruses which cause oral cancer and cervical cancer, and hepatitis C, which can cause liver cancer are considered carcinogens.

Carcinogens



Some medications:

- Some chemotherapy drugs and hormonal therapy can raise the risk of cancer.

For example:

- some of the chemotherapy drugs (such as Cytosine arabinoside) used to treat women with early stage breast cancer may sometimes lead to leukemia.
- Oral contraceptive use may increase the risk of breast cancer in young women.

Carcinogens



Lifestyle factors:

- Smoking and obesity are both carcinogens in that they can be responsible for the mutations which result in cancer.

Pollution:

- Both outdoor and indoor air may contain pollutants that are carcinogenic.

Carcinogens



How do carcinogens enter the body

Skin absorption:

- Many solvents and other chemicals go directly through the skin.

Ingestion:

- Swallowing of a carcinogen

Inhalation

- Breathing gases, fumes and vapors is the most common form of exposure.

Carcinogens



organs which carcinogens generally attack:

- Lungs
- Liver
- Kidney
- Reproductive system
- Skin
- Many other organs and tissues

Carcinogens

CARCINOGENS AROUND US

HOME AND ENVIRONMENT



PESTICIDE



UV RAYS



VEHICULAR EMISSION



AEROSOI



RADON

HOME AND ENVIRONMENT



PESTICIDE



UV RAYS



VEHICULAR EMISSION



AEROSOLS



RADON

FOODS



PRESERVATIVES



SWEETENED JUICE



DIETARY FAT



HIGHLY SPICY FOOD



FERMENTED FOOD

LIFESTYLE



TOBACCO CHEWING



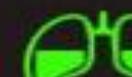
BODY PIERCING



TAR FROM SMOKING



BODY PIERCING



TAR FROM SMOKING

INDUSTRY



VINYL IN PAINT



GAMMA RADIATION



ASBESTOS



SAND DUST
RAW DUST
WOOD DUST



GAMMA RADIATION



ASBESTOS



SAND DUST
RAW DUST
WOOD DUST

VIRUS



HERPES VIRUSES



HEPATITIS B & C



HPV



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Thank You

