

Carcinogens (Part -1)



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Semester - VI, Paper –DSE-3

Carcinogens



Cancer :

Cancer is the abnormal or uncontrolled growth of new cells in any part of the body, It is characterized by cells that tend to invade surrounding tissue and metastasize to new body sites.

Carcinogens:

- Carcinogens are any substance or factor that is capable of causing cancer
- It may include chemicals, environmental radiation , viruses , lifestyle factors and even some medication

Carcinogens



- Carcinogens are chronic toxins.
- They cause damage after repeated or long-duration exposure.
- They may have not immediate apparent harmful effects, with cancer developing only after a long latency period
- Carcinogens do not cause cancer in everyone who is exposed;

Carcinogens



The ability of a carcinogen to cause cancer depends on many factors, including:

- The amount of exposure,
- The length of exposure,
- The health of the individual,
- and other factors in the person's life that either raise or lower the risk of cancer.

Carcinogens



Types of carcinogens:

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

Carcinogens



Chemical Carcinogen:

- Any discrete chemical compound which has been shown to cause cancer in human and animal .
- Hundreds of individual compounds have been shown to induce cancers. Thousands of additional compounds are “suspect” carcinogens.
- Such as- chemical compounds commonly used in laboratory operations, shops and art studios.

Carcinogens



Chemical Carcinogens .. Contd..

- Certain chemicals used at the home or workplace may be carcinogenic. For example,
- asbestos in insulation can lead to lung cancer and mesothelioma

Thank You

