

5

Neoplasia

David E. Hughes

A neoplasm ('new growth') is a lesion that results from abnormal growth of a tissue, which is partly or completely autonomous of normal growth controls and persists after the initiating stimulus has been removed.

Neoplasms usually manifest themselves as tumours (abnormal swellings). However, some neoplasms, most notably those derived from haemopoietic cells do not form tumours, and clinically tumorous lesions can be caused by non-neoplastic disease (e.g. tuberculosis).

This chapter will describe how neoplasms form, how they are classified and how they behave.

CARCINOGENESIS

Carcinogenesis is the process by which normal cells are converted into cells capable of forming neoplasms. There is no single cause of neoplasia, and it is generally accepted that most neoplasms require several events to occur in a single cell (the multistep hypothesis) before a sustainable neoplasm can form. This accounts for the relative rarity of neoplasms when compared with the number of cells in the body, all of which, theoretically, have the potential to form neoplasms.

Another factor that protects most cells from neoplasia is that, in order to form a neoplasm, a cell must divide. Thus cells which are postmitotic, such as nerve cells and skeletal muscle cells, rarely form neoplasms, whereas cells such as the epithelium of the gut and the epidermis of the skin, which continually divide, form neoplasms more frequently.

This section will describe the factors that predispose to the formation of neoplasms. Some examples of carcinogens are given in Table 5.1.

CARCINOGENS

Carcinogens are agents which cause the formation of neoplasms from cells exposed to them. The nature of carcinogens is diverse, but they all have the ability,

Table 5.1 Examples of carcinogens

Carcinogen	Neoplasm caused
Chemical:	
3,4-benzopyrene (tobacco derivative)	Bronchogenic carcinoma
β-naphthylamine	Carcinoma of the bladder
Radiation:	
Ultraviolet light	Skin neoplasms
Ionising radiation	Leukaemia
Viruses:	
Human papilloma virus	Carcinoma of the cervix
Hepatitis B virus	Carcinoma of the liver
Others:	
Asbestos fibres	Mesothelioma
Aflatoxins (toxic aflatoxin)	Carcinoma of the liver
Schistosomes	Carcinoma of the bladder

directly or indirectly, to cause an inheritable change in the genes that control the growth and survival of the target cell.

Many carcinogens are now well known to the public as well as the medical profession: for example, tobacco smoke and asbestos. These have largely been identified by studies of the epidemiology of the neoplasms that they cause. Individual carcinogens can often cause neoplasms in more than one target tissue (e.g. tobacco derivatives can cause neoplasms of bronchial, laryngeal, oral, nasal and bladder epithelium), and individual types of neoplasm can be caused by more than one carcinogen (e.g. bronchogenic carcinoma can be caused by tobacco derivatives, asbestos, nickel, or radon gas). However, for many types of neoplasm, the carcinogenic stimulus is not known.

Chemical

A variety of chemicals have been identified as carcinogens in man, and others are suspected to be on

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