

CHAPTER ONE

RADIOBIOLOGICAL FACTORS IN MANNED SPACE FLIGHT

NATURE OF RADIATION EFFECTS

Exposure of biological materials to ionizing radiation, regardless of its source, may produce undesirable effects. Ionizing radiation is radiation in which the energy is sufficient to create ions by dislodging orbital electrons and by disrupting molecular bonds when absorbed in matter (solid, liquid, or gaseous). When such ionization occurs in living cells, subcellular processes are disrupted and the normal functioning of these cells is impaired. In particular, damage to deoxyribonucleic acid (DNA), which is involved in the fundamental control of the genetic and functional activities of living systems, may appear at any time but is usually manifested when the injured cell initiates the process of cell division. A single ionizing event can produce such molecular change. It is assumed therefore that there is no threshold to the risk of radiation injury—at least at the molecular and cellular levels. These fundamental concepts of radiation damage at the molecular and cellular levels have led to the somatic mutation theory of radiation effects. This theory leads to the general conclusion that late effects such as neoplasms and general life-shortening may be manifestations of cumulative irreparable or slowly reparable damage in various body tissues.

Radiation effects on the complex mammalian organism, which consists of billions of cells grouped into systems and organs performing specialized but interdependent functions, may be divided into two general categories: somatic and genetic. Somatic effects are those manifested directly in the tissues of the organism exposed to the

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