Proposed Medical Research Program - 1946 to 1947.

I. Introduction

II. General Studies of Radiation

A. Physical Measurement of Radiation

B. Biological Effects of Radiation
   1. Survival Time
   2. Genetic Effects
   3. Histopathological Changes
   4. Physiological Changes
   5. Biochemical and Enzymatic Disturbances

C. Methods for the Detection of Minimal Radiation Damage
   1. Biochemical and Enzymatic Changes
   2. Hematopoetic Changes
   3. Anatomical Changes

D. Prevention of Radiation Injuries
   1. Methods of Physical Protection of External Radiation
   2. Determination of Minimal Amounts of Radioactive Agents, etc.
   3. Protective Measures

E. Therapeutic Radiation Damage

III. Hazards Due to Special Materials

A. Toxicity
   1. Mode of Entrance
   2. Character of the Biological Changes
   3. Nature of Injuries and Mechanism by which They Occur

B. Preventive Measures
   1. Physical Methods
   2. Protective Devices
   3. Therapeutic Measures

C. Hazards on Which Above Studies are Necessary

IV. Production Hazards

A. Planetary and Diffusion Methods
B. Graphite Films
C. Chemical Isolation of Polonium
D. Medical Aspects of Plant Programs

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