
Applied Radiation Protection Physics

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Additional information is available at the end of the chapter

Abstract

Nuclear medicine is an area where both patients and occupational radiation doses are among the highest in diagnostic imaging modalities today. Therefore, a good understanding and proper application of radiation protection principles are of great importance. Such understanding will allow optimization of practice that will be translated into cost savings for health care administrations worldwide. This chapter will tackle: radiation protection in the routine practice of both diagnostic and therapy applications in nuclear medicine including PET, diagnostic facility design, safety aspects of the common radionuclides used in clinics, the safety of the pregnant and breast feeding patients, radiation effect of exposure to ionizing radiation, and risk estimates. The chapter will discuss the operational radiation safety program requirements applied to Conventional Nuclear Medicine using Gamma Cameras, SPECT/CT, PET/CT, and Radioiodine therapy facilities. The chapter will serve as a quick reference and as a guide to access more detailed information resources available in the scientific literature.

Keywords: radiation protection, safety program, dose limits, physics, PET, SPECT, radionuclide therapy

1. Introduction

Good radiation safety practice in nuclear medicine comprises various components: facility design and construction, local radiation safety rules and procedures, staff training, emergency preparedness, equipment quality assurance, and area and contamination monitoring.

Institutions must develop, document, and implement a radiation protection program covering the scope of practice covered under the license. The use of safety procedures, engineered

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