

# Radiological safety aspects of the operation of electron linear accelerators - a manual

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## Primer on theory and operation of linear accelerators in radiation therapy (Technical Report)

More specifically, the charges to this Task Group are to i identify the key differences between stationary and mobile electron linear accelerators used for IORT ii describe and recommend the implementation of an IORT program within the OR environment, iii present and discuss radiation protection issues and consequences of working within a nondedicated radiotherapy environment, iv describe and recommend the acceptance and machine commissioning of items that are specific to mobile electron linear accelerators, and v design and recommend an efficient quality assurance program for mobile systems. The purpose of this report is to present an overview of the physical characteristics of electron linear accelerators used in medical radiation therapy.

## Primer on theory and operation of linear accelerators in radiation therapy (Technical Report)

This publication provides an overview of the components of the linear accelerator and how they function and interrelate. These mobile accelerator units, which can be transported any day of use to almost any location within a hospital setting, are assembled in a nondedicated environment and used to deliver IORT. Book Descriptions: We have made it easy for you to find a PDF Ebooks without any digging.

## Electron linear accelerators for radiation therapy: history, principles and contemporary developments

This publication provides an overview of the components of the linear accelerator and how they function and interrelate. Particular attention is given to those physical characteristics and performance parameters which are related to delivery of a useful properly controlled prescription dose of radiation to the patient and to delivery of a potentially harmful dose of radiation to the patient, machine operator or others in the vicinity of the accelerator.

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It sets and advises on standards for the practice, education and training of scientists and engineers working in healthcare to secure an effective and

appropriate workforce. Numerous aspects of the design of these new units differ from that of conventional linear accelerators.

### **Electron linear accelerators for radiation therapy: history, principles and contemporary developments**

**Abstract** This primer is part of an educational package that also includes a series of 3 videotapes entitled Theory and Operation of Linear Accelerators in Radiation Therapy, Parts I, II, and III. The purpose of the study was to provide a data base which will assist BRH to decide whether the development of a performance standard concerning the radiation safety of medical linear accelerators is necessary, and if so, the priority which should be assigned to such a standard. General regulations, standards and guidelines for radiation safety, which affect accelerator design and use, are discussed, but more specific attention is given to control mechanism which are related to the delivery of a useful properly controlled prescription dose of radiation to the patient and to minimizing the possibility of the delivery of a potentially harmful dose of radiation to the patient, machine operators, or others in the vicinity of the accelerator.

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