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医用电子直线加速器房的环境辐射水平及其存在的问题

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摘要 对医用电子直线加速器房周围环境辐射水平进行了监测。结果表明:大多数加速器房的环境辐射水平仅略高于环境本底水平,若干加速器房的辐射水平明显偏高。偏高的主要原因在于辐射屏蔽设计有误,个别加速器房存在防护过度的问题。

关键词 [辐射环境监测](#) [辐射屏蔽](#) [电子直线加速器](#)

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The Environmental Radiation Levels Around Medical Electron Linear Accelerator Buildings and Related Problems

ZHAO Ming hua, NI Shi ying, LIU Hong shi, YANG Wei geng, SHAO Hai jiang
(Zhejiang Province Environmental Radiation Monitoring Center, Hangzhou 310012, China)

Abstract The monitoring results of the environmental radiation levels around medical electron linear accelerator buildings and problems associated with them are described. The results show the majority of the accelerator buildings have a bit higher radiation levels than the background ones, and some of them are unusually high. The main reason resulted in high radiation levels is faulty design for the radiation shielding. At the same time, individual cases appeared over protection against the radiation are also indicated.

Key words [radiation environmental monitoring](#) [radiation shielding](#) [electron linear accelerator](#)

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通讯作者

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