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摘要：本文对电子射野影像系统进行防碰撞连锁、探测器运动和影像质量检查，检验EPID探测器的防碰撞连锁、探测器运动和利用LasVegas体模进行拍照，与标准影像进行比对进行影像质量检查，同时可以检查影像几何精度。EPID是一个放疗质量保证和控制的装置，它涉及机械、电子学和影像学等内容，从放疗机器安装调试、验收到临床应用需要严格的质量保证措施。质量保证与控制人员包括医院物理师、维修工程师以及厂商维修人员，在熟悉设备工作原理和操作使用的基础上，定期进行质量保证与控制。每一个放疗中心在使用EPID时必须有一套完整的QA体制，避免用不可靠的工具检测。

关键词：放射治疗, 电子射野影像系统, EPID, 质量保证

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LINAC electronic portal imaging device of field quality assurance methods of study

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Abstract: This article is to verify the iViewGTTM EPID safety interlocks, the movement checks and check the image quality of the system. To verify the iViewGTTM EPID safety interlocks, the movement checks and check the image quality of the system by using the Las Vegas phantom. Take photos of Las Vegas phantom and compare with the standard image to check the image quality. The Electron Portal Imaging Device (EPID) is the equipment for the quality assurance and quality control of radiation treatment. It includes the mechanism, the electronics, and the medical imaging. The quality assurance is required in the installation, the acceptance and the clinical application. It is a cooperation of clinical physicists, the engineers and the manufacture services. Every radiotherapy center with EPID should institute a whole quality assurance system for the routine checks.

Key words: Radiation treatment, Electron portal imaging device (EPID), Quality assurance

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