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## Acta Medica Iranica

2009;47(4) : 39-44



Evaluation of performance quality of SPECT camera in Sharyati Hospital of Tehran University of Medical Sciences

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### Abstract:

In nuclear medicine, there are two methods of imaging, planar and tomography. Single photon emission computerized tomography (SPECT) shows better image details and therefore is influenced more by image parameters such as resolution, uniformity, sensitivity, etc. Manufacturers provide customers with data which are obtained by complicated and sometimes secret methods. Marketing companies test and verify these data and buyers perform acceptance testing on installation of system. Since acceptance testing is not usually done in our country, follow up of system performance and therefore setting up of a comprehensive quality control program faces difficulty. In this research which was done sometimes after installation, evaluation of SPECT system was carried out and data obtained were compared with those of manufacturer catalogue. It was found that in most cases our figures do not correspond to those of manufacturer catalogue, therefore acceptance testing using standard and precision devices being carried out by trained personnel is strongly recommended.

TUMS ID: 1335

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