

PERFORMANCE OF X-RAY EQUIPMENT FOR GENERAL RADIOGRAPHY IN MACEDONIA

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Abstract - From the beginning of the Quality Assessment (QA) procedures in Diagnostic and Interventional Radiology, until July 2010, Quality Control (QC) tests were performed on 32 X-Ray machines for general radiography in different health institutions in Macedonia.

The subject of the testing were the geometry set up, generator, X-Ray tube, specified Air Kerma, phantom image assessment, film processing, viewing conditions etc.

The QC procedures were performed according to European Criteria for Acceptability of Radiological and other medical installations (RP N91).

The general findings are: a big difference in age, type and set up among the X-Ray machines. Automatic Exposure Control (AEC) systems are not proper calibrated or switched off, with exception of a few cases. There is not significant differences in parameters related to phantoms image quality. Due to heavy malfunction, two machines were suspended by practice.