

MONTHLY TRADITIONAL QUALITY CONTROL FEATURES & TECHNICAL EVALUATION OF RADIODIAGNOSTIC EQUIPMENT IN MOLDOVA

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Quality control (QC) of traditional radio-diagnostic equipment (TRDE) includes some periodical managerial and technical measures aimed to ensure the high quality of radiological images with concomitant minimisation of radiation exposure of patients and personnel. These include checking of TRDE's electrical power supply, support, receptors, image amplifiers, photo-chemical process, materials for radiographic films processing.

The following measures have been performed:

- a. Evaluation of anodic value form and amplitude; measurement of anodic currents, exposure time, linearity of ratio of irradiation dos, radiogenic tubes focuses, exposure meter correctitude.
- b. coincidence checking of radiographic table centres to vertigraph; checking of mutual location of support, radiographic table, vertigraph and radiography equipment from the radio-diagnostic device screen; measuring displacement and braking efforts of support devices; functionality of radiography device screen and tomographic annex.
- c. measurement of radiosopic screens illumination intensity, amplification coefficient, contrast sensibility and resolution capacity of electron- optic amplifier, resolution capacity of TV chain; luminosity stabilisation system, verification of photo- and cinema-channels of radiological image amplifier.
- d. checking of fogging of radiographic films in case of their improper storage, checking of radiographic films light protection during their processing; verification of light isolation capacity of cassettes and photo-materials sensibility.

In conclusion we can mention the following:

- Above-mentioned QC of TRDE methods are component part of service of related equipment, it reduces the time of failures search as well as number of urgent calls of technical repairing staff.
- Monthly technical revision must be a compulsory part of QC, aimed to prolong the term of use of TRDE, which is very actual in difficult economic conditions.
- Proper periodic checking of TRDE's technical parameters increases their functionality, reduces production of spoiled radiograms, increase the quality of radio-diagnostics.
- The time and financial resources spent for monthly technical revision will be more than fully recovered, due to qualitative radio-diagnostics, and especially in complicated cases.
- Good technical state of TRDE reflects the qualification level of medical and technical personnel.

References:

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