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RTsafe

Absolute Dosimetry Audit Service Report

@ Hospital

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Report reviewed by: Evangelos Pappas,
Professor of Medical Physics,
Medical Physics Expert, MPE



Audit outcome: PASS

Audit Date: DD MM YYYY

RTsafe is an ISO certified company:

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Institution:

Date of audit: DD MM YYYY

Date of report: DD MM YYYY

Institution's contact person:

Report reviewed by: Evangelos Pappas

Professor of Medical Physics

Treatment delivery modality:

Treatment delivery unit:

Beam Energies:

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Introduction

The RTsafe's succeREF dosimetry audit evaluates the absorbed dose delivered under reference conditions for megavoltage photon beams. The primary objective is to independently verify the accuracy of the treatment unit's absolute dose calibration by comparing measured dose-to-water values with institution-reported dose values.

Results

The results of the independent output verification are presented in the following Table.

Beam Energy	Institution-reported Dose (Gy)	Measured Dose (Gy)[1]	Dosimeter[2]	Difference (%)[3]	Result[4]
6 MV	0.9756	0.944	OSLD	-3.29	Pass
6 MV	5.975	5.72	Film	-4.27	Pass

[1] The averaged dose value from two measurements per dosimeter.

[2] The OSLD and film doses were evaluated according to the recommendations of AAPM TG-191 and AAPM-235, respectively.

[3] (measured dose – institution-reported dose/ institution-reported dose)×100

[4] Agreement criteria at 95% confidence level (k=2): ± 6% (uncertainties for OSLD and film).

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Disclaimer

The results recorded in this report were deduced based on procedures performed by the end-user following the guidelines of RTsafe staff. Results are presented "as is". No warranties, express or implied, that these results are free of error is made. This action serves as an external evaluation of dosimetry and radiation protection practices of the institution and is supplementary to the internal evaluations, measurements, and quality control tests of its routine quality assurance program. These results should in no case be used as the institution's reference values. Reference values are determined by the local physics team, based on the full program of commissioning of the institution. The presented dosimetric report should not be relied on for solving a problem whose incorrect solution could result in injury to a person or loss of property. RTsafe shall not, in any event, be liable for any damages, whether direct or indirect, special or general, consequential or incidental, arising from the use of the results of this report. RTsafe does not suggest any specific actions for improving your radiotherapy treatment protocol. The responsibility for the accuracy of clinical treatment delivery remains with the local center.

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