Revision of TRS 398
Survey of dosimetry equipment used in the clinic

Introduction

The IAEA would like to thank everyone who completed the survey on the update of TRS 398 in 2016. Your comments were very useful and have been considered in the revision of this International Code of Practice. However we would like to call upon you again; to complete the calculations and measurements needed for the revision of TRS 398 it would be useful to know the equipment commonly used in the clinic.
The IAEA would be grateful if you could spend some of your valuable time to complete the questions below.

Thank you for your support in this important project.

01 Department Details

Version 1 from 2017-09-12

01.01 Department Name		
01.02 Address	Street	
	PO Box	
	City	
	ZIP	
	Country	...
01.03 Medical Physicist		
01.04 Email address		

02 High Energy Photon Beams

02.01 Ionization chambers used in your clinic for reference dosimetry

Ionization chamber type	Manufacturer	Frequency of use

02.02 Phantoms used in your clinic for reference dosimetry

Phantom material type	Manufacturer	Frequency of use

02.03 Phantoms used in your clinic for calibration of machine output

Phantom material type	Manufacturer	Frequency of use

02.04 Electrometer	
Electrometer type	Manufacturer

02.05 Dosimeter Calibration	
02.05.01 Where was your chamber calibrated?	
02.05.02 What are the uncertainties quoted in your calibration certificate?	
02.05.03 Calibration coefficients	○ $N_{D,W}$ ○ NK
02.05.04 If Nk please give details of conversion to absorbed dose to water	

03 High Energy Electron Beams

03.01 Ionization chambers used in your clinic for reference dosimetry		
Ionization chamber type	Manufacturer	Frequency of use

03.02 Phantoms used in your clinic for reference dosimetry		
Phantom material type	Manufacturer	Frequency of use

03.03 Phantoms used in your clinic for relative dosimetry or QA		
Phantom material type	Manufacturer	Frequency of use

03.04 Electrometer	
Electrometer type	Manufacturer

03.05 Dosimeter Calibration	
03.05.01 Where was your chamber calibrated?	
03.05.02 What are the uncertainties quoted in your calibration certificate?	
03.05.03 Calibration coefficients	○ $N_{D,W}$ ○ NK
03.05.04 If Nk please give details of conversion to absorbed dose to water	

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04 **Low Energy Kilovoltage Beams**			
04.01 Ionization chambers used in your clinic for reference dosimetry			
Ionization chamber type	Manufacturer	Energy range kVp	HVL
04.02 Do you use build-up foils?	◯ Yes ◯ No		
Details of build-up foils			
04.03 Dosimeter Calibration			
04.03.01 Where was your chamber calibrated?			
04.03.02 What are the uncertainties quoted in your calibration certificate?			
04.03.03 Is your chamber calibrated with build-up foils?	◯ Yes ◯ No		
04.03.04 Is your chamber calibrated on the surface of a phantom?	◯ Yes ◯ No		
04.03.05 Calibration coefficients:	◯ $N_{D,W}$ ◯ NK		
04.03.06 If Nk please give details of conversion to absorbed dose to water			
04.04 Reference dosimetry in the clinic			
04.04.01 Where is the dose prescribed in the clinic?	◯ Surface ◯ 2 cm deep in water		
04.04.02 Where is the reference dosimetry performed in the clinic?	◯ in air ◯ at a depth in water		
04.04.03 What depth in water?		*(cm)*	
04.05 Phantoms used in your clinic for reference dosimetry			
Phantom material type	Manufacturer	Frequency of use	
04.06 Phantoms used in your clinic for relative dosimetry or QA			
Phantom material type	Manufacturer	Frequency of use	
04.07 Electrometer			
Electrometer type	Manufacturer		

04.08 Beam qualities used in the clinic		
KVp	HVL (*mm*)	Added filtration

Manufacturer of X-ray tube	
04.09 X-ray tube type model number	
04.10 Applicators - field size range	*(cm)*

05 Medium Energy Kilovoltage Beams

05.01 Ionization chambers used in your clinic for reference dosimetry			
Ionization chamber type	Manufacturer	Energy range kVp	HVL

05.02 Dosimeter Calibration	
05.02.01 Where was your chamber calibrated?	
05.02.02 What are the uncertainties quoted in your calibration certificate?	
05.02.03 Calibration coefficients:	○ $N_{D,W}$ ○ NK
05.02.04 If Nk please give details of conversion to absorbed dose to water	

05.03 Reference dosimetry in the clinic	
05.03.01 Where is the dose prescribed in the clinic?	○ Surface ○ 2 cm deep in water
05.03.02 Where is the reference dosimetry performed in the clinic?	○ in air ○ at a depth in water
05.03.03 What depth in water?	*(cm)*

05.04 Phantoms used in your clinic for reference dosimetry		
Phantom material type	Manufacturer	Frequency of use

05.05 Phantoms used in your clinic for relative dosimetry or QA		
Phantom material type	Manufacturer	Frequency of use

05.06 Electrometer	
Electrometer type	Manufacturer

05.07 Manufacturer of X-ray tube	
05.08 X-ray tube type model number	

05.09 Beam qualities used in the clinic		
KVp	HVL (*mm*)	Added filtration

05.10 Applicators - field size range		*(cm)*

06 Proton Beams

06.01 Ionization chambers used in your clinic for reference dosimetry		
Ionization chamber type	Manufacturer	Energy range

06.02 Phantoms used in your clinic for reference dosimetry		
Phantom material type	Manufacturer	Frequency of use

06.03 Phantoms used in your clinic for relative dosimetry or QA		
Phantom material type	Manufacturer	Frequency of use

06.04 Electrometer	
Electrometer type	Manufacturer

06.05 Dosimeter Calibration	
06.05.01 Where was your chamber calibrated?	
06.05.02 What are the uncertainties quoted in your calibration certificate?	
06.05.03 Calibration coefficients:	○ $N_{D,W}$ ○ NK

06.05.04 If Nk please give details of conversion to absorbed dose to water	
06.06 Is your clinical beam scanned:	◯ Yes ◯ No

07 Carbon Ion Beams

07.01 Ionization chambers used in your clinic for reference dosimetry

Ionization chamber type	Manufacturer	Energy range

07.02 Phantoms used in your clinic for reference dosimetry

Phantom material type	Manufacturer	Frequency of use

07.03 Phantoms used in your clinic for relative dosimetry or QA

Phantom material type	Manufacturer	Frequency of use

07.04 Electrometer

Electrometer type	Manufacturer

07.05 Dosimeter Calibration

07.05.01 Where was your chamber calibrated?	
07.05.02 What are the uncertainties quoted in your calibration certificate?	
07.05.03 Calibration coefficients:	◯ $N_{D,W}$ ◯ NK
07.05.04 If Nk please give details of conversion to absorbed dose to water	
07.06 Is your clinical beam scanned:	◯ Yes ◯ No

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