EORTC RTQA Facility Questionnaire

I. Administrative Data

Name of person submitting thi	s questionnaire		Function			
Email address			Phone			
Institution						
Addross						
Address]		
City		Post code				
Country						
EORTC No	Enter 0 if you don't have it	t yet				
Phone						
Hospital/Department website						
Reasons for filling the question	naire		~			
Are satellite radiotherapy units	associated with your main institution?	♥				
Comment	,					
Status of Department	Public V Univer	sity Private				
Other, please describe						
Is your center presently involv	ed in clinical trials					
Is your center presently involv Responsible contact person	ed in clinical trials					
Is your center presently involv - Responsible contact person Name	ed in clinical trials	Email		Phone	2	
Is your center presently involv - Responsible contact person Name Main contact	ed in clinical trials	Email		Phone	9	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists	ed in clinical trials	Email		Phone	9	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU	ed in clinical trials	Email		Phone	2	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN	ed in clinical trials	Email		Phone	2	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung	ed in clinical trials	Email		Phone	2	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung H&N	ed in clinical trials	Email		Phone	2	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung H&N Brain	ed in clinical trials	Email		Phone	e 	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung H&N Brain Breast	ed in clinical trials	Email		Phone	2	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung H&N Brain Breast Other	ed in clinical trials	Email		Phone	2 	
Is your center presently involv Responsible contact person Name Main contact Radiation Oncologists GU GYN Lung H&N Brain Breast Other Medical Physicists	ed in clinical trials	Email		Phone	ð 	
Is your center presently involver Responsible contact person Name Main contact	ed in clinical trials	Email		Phone	2	
Is your center presently involve Responsible contact person Name Main contact Radiation Oncologists GU GYN	ed in clinical trials	Email		Phone	>	

H&N		
Brain		
Breast		
Other		

Staffing level	
(fulltime equivalent - FTE)	
Number of FTE radiation oncologists	
Number of radiation oncologists in training	
Number of FTE medical physicists	
Number of medical physicists in training	
Number of FTE dosimetrists or equivalent	
Number of dosimetrists in training	
Number of FTE radiation technologists (excluding those above)	
Number of radiation technologists in training	
Number of radiation technologists per treatment unit present at the time of treatment	
Patient workload	

Number of new patients* treated per year	
Number of retreated nationts** per year	
Number of refleated patients - per year	

* Definition of new patient: patient receiving the first radiation treatment (with either radical or palliative intent) for a certain tumor in your department.

** Definition of retreated patient: patient receiving second or more radiation treatment for a certain tumor that was treated before (with RT) in the same department (a boost should not be considered as a retreated patient; treatments at > 1 target volume at the same time with a separate set-up can be counted as > 1).

II. Data Acquisition for Treatment Planning

LAT COMPUTED TOMOGRAPHY		
(u) compated romography		
Scanner access		
Manufacturor		
Manufacturer		
Model		
Relevant QA / Comment		
Relevant QA / Comment (b) Magnetic Resonance Imaging		
Relevant QA / Comment (b) Magnetic Resonance Imaging		
Relevant QA / Comment (b) Magnetic Resonance Imaging Scapper access		
Relevant QA / Comment (b) Magnetic Resonance Imaging Scanner access		
Relevant QA / Comment (b) Magnetic Resonance Imaging Scanner access		
Relevant QA / Comment (b) Magnetic Resonance Imaging Scanner access Manufacturer]
Relevant QA / Comment (b) Magnetic Resonance Imaging Scanner access Manufacturer]

Model						
Relevant QA / Comment						
(c) Positron Emission Tomography						
Scanner access	✓ PET/CT ✓					
Manufacturer						
Model						
On site cyclotron						
Relevant QA / Comment						
(d) Simulation Units						
Most advanced unit	Additional unit	Additional unit	Additional unit			
Type of unit	· · · · · · · · · · · · · · · · · · ·	✓	•			
Manufacturer						
Model						
Year of installation						
Virtual simulation 💽						
Relevant OA / Comment						

III. 3D Treatment Planning and R&V System

a) External b	eam			
Number of tre	eatment planning systems			
	Most advanced TPS	Additional TPS	Additional TPS	Most advanced Record and Verify
Manufacturer				
Model and software version				
Year of last update				
Number of working stations				
Stereotactic RadioSurgery (SRS)		✓	✓	
Stereotactic Body Radiotherapy (SBRT)	✓		~	

Algorithms availa	ble		
Type A: primarily based on	▼		
electronic			
path Type B:			
models that in an			
approximate way consider			
changes in	▼		
electron			
transport (e.g. CC,			
AAA) Manta Carla			
What proportion of	your radical patients gets a CT-based treatr	nent plan %	
DVH calculation	Cumulative 🔷 🗸	Differential 🛛 🗸	
Ability to sum d	ose plans		
Export of DRR to	o verification system		
Relevant QA / Col	mment		
b) Brachytherapy			
Number of brachyte	rapy planning systems		
	Most recent Brachytherapy TPS	Additional TPS	
Manufacturer			
Model			
Software Version			
Year of installation			
Relevant QA / Col	mment		

IV. Patient Immobilisation and Verification

1) Manufacturer/Model	for Breast	
2)	for Proctato	
2)	TOT FTOState	
3)	for H&N	
4)	for Lung (thorax)	
If developed "in house",	, please, describe	

Stereotactic frame used	~
Perform frameless SRS	•

Verification

Patient Set-up
Laser • Reflectors / IR camera • Orthogonal kV imager •
Verification by
EPID detector
CT Cone beam CT MRI
kV imager 💽 🗸
Film 🔹
Ultrasound 🗸
Respiratory gating
Tumor tracking
Robotic couch
Other
Frequency of field position verification
Comment

V. Treatment Delivery

Number of external treatment units

LinAc	Tomotherapy VERO Cyber	Knife Gamma Knife Co-60		
	Most Advanced Unit	Additional Unit*	Additional Unit*	Additional Unit*
Unit Type				
Manufacturer				
Model				
Year of Installation				
Number of similar units				
Photon Energy lowest/highest (MV)				
Electron				

Energy / / / / / / / / / / / / / / / / / / /							
Stereotactic RT	~	~	~				
Fractionated stereotactic RT	v	~					
Stereotactic Radiosurgery (SRS)	~	~					
IMRT V							
MLC resolution at isocenter (mm)							
IGRT ¥	~	✓	✓				
Average number of patients/day							
*from newer to older							
Relevant QA / Comment							
Brachytherapy Treatment Units							
	Most advanced	Additional	Additional				
Manufacturer							
Model							
Year of Installation							
Average number of patients/month							
After-loading System							
HDR V PDR V LDR	♥						
Permanent Seed implant 🔍 🗸							
Relevant QA / Comment							

VI. Quality Assurance

Periodic	ity of QA		
	Photon output (cGy/MU)	Equipment used	
Daily	•		
Weekly	~		
Monthly			

	~						
Yearly	~						
	Photon ene	rgy (MV) E	quipment used				
Daily	•						
Weekly	~						
Monthly	~						
Yearly	~						
	Photon hom (flatness ar	nogeneity Id symmetry	/) Equipment u	sed			
Daily	~						
Weekly	~						
Monthly							
Yearly	•						
Flectron	Output			times pe	er month 🗸		
Electron	Energy			times pe	er month 🗙		
Electron	Homogeneit	v (flatness a	and symmetry)	times ne	er month 🗙		
Mechanic	al alignmen	, (times pe	er month 🗙		
(e.a.: im	aging and is	- ocenter co-i	incidence, mlc p	osition,)			
Treatmer	nt equipment	t checks	····, ··	times pe	er month 🗸		
Calibratic	n Point						
	rav photons	Gv	in cm de	epth at c	m SSD		
High ene	rgy photons	Gy	in cm de	epth at c	m SSD		
Type of ior	n chamber u	sed for bear	n calibration				
Type of ele	ectrometer u	sed for bea	m calibration				
Are chamb	pers/electron	neters calib	rated in a refere	nce laboratory	~		
Water pha	ntom						
Use of film	IS				✓		
Independe	ent MU calcu	lation check	(double MU cal	culation)	✓		
How do yo	ou measure a	actual dose	distribution?		·	✓	
Periodicity	of measurin	ng actual do	se distribution			~	
Relevant	QA / Comm	nent					
Frequency	of treatmer	nt review			♥	◄	
Compensa	tion for trea	tment interi	ruption on			✔ Other	
las your s	site participa	ted in exter	nal IMRT creden	tialing 🔽 🗸			

Does your TPS transf	fer plans to your phanto	m for QA?	
Relevant QA / Con	nment		
Beam Output Audi BOA is mandatory and	it (BOA) d has to be submitted alo	ng with the Facility Ques	ustionnaire.
Year of last audit	Highest photon energy	Lowest photon energy	Electrons
National			
International			
Private company			
Others			