# Facility Questionnaire PART I (General Information for 3DCRT and IMRT)

The following items are required before you can enter cases on any RTOG protocol that requires data submission to the Image-Guided Therapy QA Center (ITC). This includes 3DCRT, IMRT or IGRT protocols supported by the ITC. Some of these protocols could require additional information relating to motion management or heterogeneous dose calculations when treating targets in or around the thorax. Additionally, some protocols might require you to complete two or more additional forms. For example, you must complete multiple forms for a protocol that requires or allows IMRT, IGRT and motion management. The additional forms are available through the ITC. If you have completed this or any of the other forms for previous credentialing and now wish to enter patients on another protocol requiring digital data submission, please request a copy of your previous application forms from the ITC. You should update any information on these forms that has changed since your earlier credentialing.

1. Submit this completed Facility Questionnaire to:

Radiation Therapy Oncology Group (RTOG Headquarters) RT Quality Assurance Department 1818 Market Street; Suite 1600 Philadelphia, PA 19103

Email: rtog-facquest@phila.acr.org

Phone: 215-574-3219 FAX: 215-940-8817

- 2. Contact the ITC (<u>itc@castor.wustl.edu</u>) and request an FTP account for digital data submission
- 3. Submit and successfully complete any required protocol specific Dry-Run test
- 4. A successful phantom experiment may also be required depending on the specific protocol requirements

Institution Name:		RTOG Institution #:
If Affiliate, Name of Member Institution:_		
Date Questionnaire Submitted:/_	/	RTF#
List the best contact individuals for gen	neral question regarding R1	FOG protocols
Physicist:	e-mail:	
Address:		
Telephone:	Fax:	
Research Associate:	e-mail:	
Telephone:	Fax:	
Dosimetrist:		
Telephone:	Fax:	
Responsible Radiation Oncologist		
Telephone:		

### A. Delivery Resources (TABLE 1)

List the treatment units you use for 3DCRT, IMRT or IGRT protocols. (NOTE: If units differ in the type of multileaf collimator or IGRT capabilities, you should list them separately. Please be sure to list all units that will be used with the protocol for which you are credentialing. Also, if you do not intend to credential for IMRT, you can skip the last column.)

ID	Local	Vendor	Model	Photon	Number of	MLC or	Uses (Check		IMRT Method
#	identifier(s) of			Energies	identical	other beam	applicable		(see footnote 2)
	unit			Used for IMRT	units	modulator (footnote 1)	boxes)		
1				IMIKI		(100thote 1)		IMRT	SMLC
1								IGRT	DMLC
								IOKI	
								-	Helical tomotherapy
								_	Serial tomotherapy
									other
2								IMRT	SMLC
								IGRT	DMLC
									Helical tomotherapy
								-	Serial tomotherapy
									other
3								IMRT	SMLC
								IGRT	DMLC
								-	Helical tomotherapy
								-	Serial tomotherapy
									other
4								IMRT	SMLC
								IGRT	DMLC
									Helical tomotherapy
									Serial tomotherapy
									other
5								IMRT	SMLC
								IGRT	DMLC
									Helical tomotherapy
								Ī	Serial tomotherapy
								Ī	other

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FOOTNOTES appear at the top of the next page

1. Enter the letter fr	om the following list: a. Varian 80 leaf e. Tomotherapy Binary Collimator i. 3D Line m. physical compensators	<ul><li>b. Varian Millennium 120 leaf</li><li>f. NOMOS Binary Collimator</li><li>j. Radionics</li><li>n. Cyber Knife using circular co</li></ul>	c. Elekta 80 leaf g. Seimens 58 leaf k. BrainLAB 52 leaf ollimators	<ul><li>d. Elekta 80 leaf Beam Modulator</li><li>h. Siemens 82 leaf</li><li>l. BrainLAB Tx 120 leaf</li></ul>	
2. If you have check	o. othered the box for other in the last column of the	above table, please explain in the sp	ace provided above and place	e additional information here.	

## B. List Protocols (TABLE 2a)

If the information listed in Part I of this form is different for various RTOG protocols, enter additional data here. That is, if specific individuals are responsible for particular protocols at your institution, please list them in the table below. Please update earlier information, and add the new protocol you are currently credentialing for at the end.

Enter protocol # below	Are you credentialing for IMRT, IGRT or both (footnote 1)	Radiation Oncologist [List Rad Onc(s) in Table 2b and enter ID	Research Associate [List RA(s) in Table 2b and enter ID #(s) here]	Physicist [List physicist(s) in Table 2b and enter ID #(s) here]	Dosimetrist [List Dosimetrist(s) in Table 2b and enter ID #(s) here]	Does treatment in or near the thorax require heterogeneity corrections for this protocol? (footnote	Does this protocol require treatment in or near the thorax so that respiration control is required? (footnote 2)	From the list of Delivery Resources (Table 1), insert the identification # of the unit(s) that will be used for this
	(======================================	#(s) here]	(=)]		(2)	2)	(======================================	protocol.
Protocol #								
Protocol #								
Protocol #								
Protocol #								
Protocol #								
Protocol #								
Protocol #								
Protocol #								

#### FOOTNOTES

FOOTNOTES

<sup>1 –</sup> enter IMRT, IGRT or IMRT/IGRT

<sup>2 –</sup> enter Yes or No. If Yes, you must complete the Part V questionnaire.

### . List Protocols (TABLE 2b)

#### List personnel here, and enter numbers from the first column in this table in the appropriate location in the table above.

The names entered below should be for those individuals routinely involved with the protocol for which you are credentialing. You can enter more than one name per protocol.

	Name		Occupation (check one)			e-mail	phone
ID #		Physicist	Research Associate	Radiation Oncologist	Dosimetrist		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

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### C. Planning Resources (TABLE 3)

List your treatment planning systems here. Skip the last column if you are not credentialing for IMRT

I.D. #	Vendor	Software Version	Calculation Algorithm (Enter # from list in Footnote #1 below)	Treatment units commissioned for this system (Enter # from Table 1)	Is system commissioned for heterogeneity corrections? (Enter yes or no and see Footnote 2)	Does the system transfer beams to a phantom for QA? (Enter yes or no. If no, explain the technique you do use for IMRT QA in the blank space below.)
1						
2						
3						
4						
5						
7						

Footnote 1 (If you are using more than one calculation algorithm for a particular system, enter them separately in different rows of the table above.)

- 1. BrainLAB pencil beam
- 2. Corvus pencil beam
- 3. Helax pencil beam8. PLUNK pencil beam
- 4. Helax collapsed cone9. MSKCC pencil beam
- 5. Cadplan pencil beam10. Pinnacle fast convolve

- 6. Eclipse pencil beam 7. Eclipse AAA 11. Pinnacle collapsed cone or adaptive convolution superposition
- 12. XiO modified Clarkson or convolution
- 13. XiO superposition or fast superposition

14. Tomotherapy convolution superposition

15. Other

Footnote 2 If you answered "no" for the question about the system being commissioned for heterogeneity corrections, please explain? Identify each system using the # in the list.\_

#### D. TREATMENT VERIFICATION

Note: If you use IGRT for patient positioning verification for some of your 3DCRT or IMRT treatments, you should complete the Part II questionnaire for IGRT. The RTOG has a very specific definition for IGRT. IGRT is defined here to include only those procedures where an x-ray imaging technique is used in combination with some form of computer-assisted manual or automatic registration with the image information obtained during the patient's planning CT procedure. The standard use of MV EPID images as a visual comparison to DRRs does not fall under this definition. Also, the use of silver halide film radiographs alone is not accepted under this definition of IGRT. Thus, you should use the Part II questionnaire only if you have this type of computer-assisted technology. If you are using standard EPID or radiographic imaging, please answer the relevant question below.

Γ	o you use IGRT in your depa	artment (see RTOG definition above)	? Yes \( \text{No } \( \text{D} \)								
1. TREAT	TMENT POSITIONING VEI	RIFICATION FOR 3DCRT or IMRT									
How	do you verify field positioning	relative to the patient's anatomy (check	all that apply)?								
□ p	□ port film □ orthogonal port films □ BAT ultrasound										
	Other:										
How	often is positioning verification	n done?									
	irst treatment only	☐ daily	weekly								
	•		·								
		DOSE FOR 3DCRT  uct a check of the dose and monitor unit	t calculations generated by the 3DRTP								
	our 3DCRT treatments monitorufacturer & Model:	red by a record and verify system?									
F	ICATION OF DELIVERED  Iow do you verify that the treat  Absolute dose  point(s) measurement v	ment unit delivers the planned dose for	individual patients?								
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	ion chamber (c	chamber size	_ )	diode	☐ TLD
	radiographic f	ilm 🗌 ra	diochromic film		
	Other:				
b. <u>Relative dose</u>					
isodose o	listribution with				
radiograp	bhic film	radiochromi	c film Gel	dosimetry	
other					
in	(#) axial planes	& in(	(#) sagittal planes	& in	_(#)coronal planes
Describe the type	of phantom you u	ise for QA:			
anthrop	omorphic phantor	n Vendoi	<b>::</b>		
geometr	ric phantom:	(r	material)		
shape:	square (	Cylinder  ot	her		
size of p	hantomcm	Xcm X	cm		
What agreement linstitution?	between planned a	nd measured dos	ses for individual pa	atients is conside	ered acceptable at your
For abso	lute dose in target	volume (high do	ose) region		
For abso	lute dose in critica	l normal tissue r	egion		
For abso	lute dose in low do	ose region			
For relat	ive dose in high do	ose gradient regi	on		
For relat	ive dose in low do	se gradient regio	n		
	in high dose regio	n (target)			
	in low dose region	1			
Are your monitor	unit calculations of	hecked by an in	dependent program	?	
no		yes Vendo	or:		

You have completed this form. There are two additional forms you might have to complete. If you answered "Yes" to the IGRT question at the top of page 6 and you are credentialing for an IGRT protocol, you must complete the Part II Questionnaire for IGRT. If you answered "Yes" to the questions about motion management or heterogeneity corrections in Table 2a above, you must complete the Part III Questionnaire. Please be sure to complete all necessary forms. If IGRT is optional in the protocol you are credentialing and you do not intend to use this technology, you can simply skip that questionnaire. However, you will not be able to use IGRT in the future until you have completed this requirement.