



Avoiding Common Pitfalls in  
Credentialing for NCI Sponsored  
Clinical Trials

IROC™  
IMAGING AND  
RADIATION ONCOLOGY CORE  
*Global Leaders in Clinical Trial Quality Assurance*

ACR  
RADIATION

AAPM  
Austin  
July 2014

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### What is credentialing?

- Verifying an appropriate level of competency
- Applies to institutions, radiation oncologists, physicists, TPS or treatment modality

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### Purpose of Credentialing

- Educate
- Evaluate ability to deliver dose
- Improve understanding of protocol
- Improve treatment delivery
- **Goal is to reduce deviation rates**

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## IROC credentialing

- Facility Questionnaire
- Knowledge Assessment Questionnaire
- Benchmark Cases
- Electronic data submission
- 1<sup>st</sup> patient Pre-Treatment
- Phantoms

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## Give yourself time!

Time to get a phantom  
(many weeks)

Time to irradiate  
(2 weeks)

Time for analysis  
(1 month)

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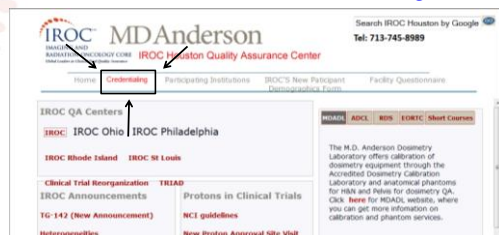
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## Learn our website

[irochouston.mdanderson.org](http://irochouston.mdanderson.org)




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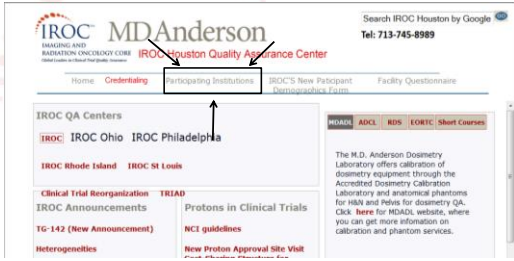
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RTF




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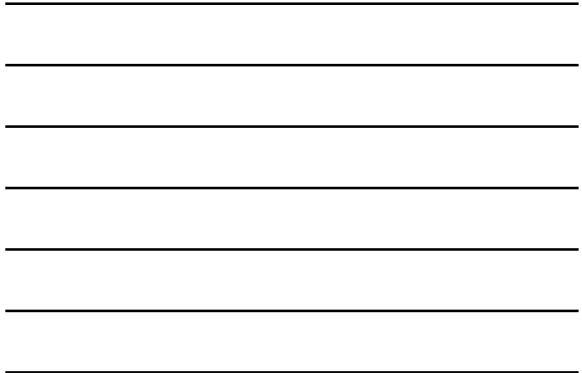


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RTF

The screenshot shows the IROC MD Anderson Institutional Search page. At the top, it says "IROC MD Anderson" and "IROC Houston Quality Assurance Center". Below this is a navigation bar with "Home", "Credentialing", "Participating Institutions", "IROC's New Participant", and "Facility Questionnaire". The main section is titled "Institution Search" and contains a search form with fields for "City", "State/Province", "Zip Code", "Country", "Institution Name", and "or RTP Number". Below the search form is a table of participating institutions:

Institution - RTP Number	Click on [icon] in the list to view machines.
ALLAN BYRNES RADIATION THERAPY CTR - 1054 2600 E. MLK BLVD, AUSTIN, TX, USA 78702	[icon]
AUSTIN CANCER CENTER - 1054 2600 E. MLK BLVD, AUSTIN, TX, USA 78702	[icon]
AUSTIN CANCER CENTER-CENTRAL AUSTIN - 1054 2600 E. MLK BLVD, AUSTIN, TX, USA 78702	[icon]
AUSTIN CYBERNOVAE - 1056 1400 NORTH HOUSTON, AUSTIN, TX, USA 78701	[icon]
BRACKENRIDGE HOSPITAL - 2999	[icon]



Credentialing Status Inquiry

The screenshot shows the IROC MD Anderson Credentialing Status Inquiry page. It features the IROC logo and contact information: "Search IROC Houston by Google" and "Tel: 713-745-8989". The navigation bar includes "Home", "Credentialing", "Participating Institutions", "IROC's New Participant", and "Facility Questionnaire". A red box highlights the "Credentialing Status Inquiry" link in the navigation bar. Below the navigation bar, there are "IROC QA Centers" listed as "IROC", "IROC Ohio", and "IROC Philadelphia", and a menu with "HRAA", "ADCL", "RDS", "EOR", and "Short Courses".



Credentialing Status Inquiry

The screenshot shows the "Credentialing Status Inquiry Form" on the IROC MD Anderson website. The form is titled "CREDENTIALING FOR ADVANCED TECHNOLOGY PROTOCOLS" and includes instructions: "This questionnaire will help determine if your institution is credentialed to participate in a protocol. Use IRCC Houston will verify your and the study group's user status. IRCC at the IRCC Houston will advise your institution when it can participate in that requested protocol. If you have any questions, please contact the IRCC Houston at (713) 743-8989 or IRCCHouston@mdanderson.org". The form contains several fields:

- Institution: \_\_\_\_\_ Study Group Name: RTCG
- Study Group #: \_\_\_\_\_ RTG: \_\_\_\_\_ RTG #: \_\_\_\_\_
- Name of person completing this form: \_\_\_\_\_
- Email address: \_\_\_\_\_ Phone #: \_\_\_\_\_
- Are you an:  Radiation Oncologist  Physician  Diagnostician  Clinic Coordinator
- Protocol to be credentialled: \_\_\_\_\_
- Specify treatment:  IMRT  IMRT  IMRT
- Treatment planning system to be used for this protocol: \_\_\_\_\_
- Algorithm to be used for patient plans: \_\_\_\_\_
- Has your institution accessibility credentialled per IRCC Houston platform?  Yes  No
- If yes, which platform? \_\_\_\_\_



## Protocol Credentialing Requirements

- 1270 - NCTG N107C/Endorsed Study: A Phase III Trial of Post-Surgical Stereotactic Radiosurgery (SRS) Compared With Whole Brain Radiotherapy (WBRT) for Resected Metastatic Brain Disease  
[Link to Protocol](#) [Credentialing Requirements](#)
- 1304 - A Randomized Phase III Clinical Trial Evaluating Post-Mastectomy Chestwall and Regional Nodal XRT and Post-Lumpectomy Regional Nodal XRT in patients with Positive Axillary Nodes before Neoadjuvant Chemotherapy who convert to Pathologically Negative Axillary Nodes after Neoadjuvant Chemotherapy  
[Link to Protocol](#) [Credentialing Requirements](#)
- 1306 - A Randomized Phase II Study of Individualized Combined Modality Therapy for Stage III Non-Small Cell Lung Cancer (NSCLC)  
[Link to Protocol](#) [Credentialing Requirements](#)
- 1308 - Phase III Randomized Trial Comparing Overall Survival After Proton Versus Proton Chemoradiotherapy for Inoperable Stage II-III NSCLC  
[Link to Protocol](#) [Credentialing Requirements](#)




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## Protocol Credentialing Requirements

Search IROC Houston by Google  
Tel: 713-745-8889

[Home](#)   [Credentialing](#)   [Participating Institutions](#)   [IROC's New Programs](#)   [Faculty Questionnaire](#)  
[Interventions](#)   [Medical Physics](#)   [Medical Dosimetry](#)

[Previous page](#)   [Back to credentialing](#)

**RT0G 1308** Requirements

Successful completion of **IRRT** credentialing is required for all treatment modalities. Details can be found on the RT0G website under IROC Credentialing.

Completion of the **1308 knowledge assessment** is required.

This protocol requires each institution to submit electronic patient data to RT0G using TRIAD. For instructions on TRIAD, click **here**. Please note, with CTSU integration with TRIAD, IRB approval is required in order to submit credentialing data.

This study requires credentialing before patients can be entered onto the study. The credentialing requirements are different depending on whether you are using a 2D/3D/IGRT or proton therapy technique. You can be credentialled for one technique or for all, depending on your physician's treatment preference.

In order to complete the **IRRT** credentialing process, the following items must be completed:

- All participants are asked to update an existing or complete a new Facility Questionnaire.
- All participants are asked to update an existing or complete a new IRRT Faculty Questionnaire.




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## Requesting a Phantom

Search IROC Houston by Google  
Tel: 713-745-8889

[Home](#)   [Credentialing](#)   [Participating Institutions](#)   [IROC's New Programs](#)   [Faculty Questionnaire](#)  
[Interventions](#)   [Medical Physics](#)   [Medical Dosimetry](#)

Credentialing Status Inquiry Form

**Phantom Request Form**

Credentialing Status Inquiry Form

Institution:

RTF No:

Physicist first name:

Physicist last name:

Physicist phone number:

Physicist email:

Address1:

Address2:

City:

State/Province:




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## Data Submission



**TRIAD**  
Listen to Ying's talk!

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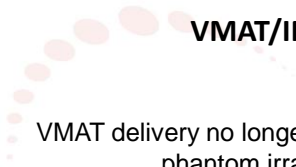
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## VMAT/IMRT



VMAT delivery no longer requires another phantom irradiation

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## Machine Types

Group can be covered under one irradiation:

- Traditional C-arm units
- (ie your Varian unit is covered by your Elekta irradiation)

Separate credentialing required:

- Tomotherapy
- CyberKnife
- Other non-standard units

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## NSABP B-51/RTOG 1304

Lowenstein et al poster  
SU-E-T-311

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## Re-credentialing

Not required  
New version of TPS  
New delivery mechanism on same unit

Encouraged; Not required  
New TPS  
New machine

Required  
Different type of machine (Tomo/CK)  
FFF beams

These are general rules; individual protocol could vary from these guidelines!

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## Satellites

Decided on a case by case basis

Modality (HN phantom)  
Physics group  
Physician group  
Machine type  
Delivery method  
Planning system  
Within 5 years at first association

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### Satellites continued

Decided on a case by case basis

Heterogeneity/motion (lung phantom)

Add to previous:  
Motion management  
algorithm

Limit of 5 sites covered by 1 irradiation

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### IGRT

Now by site  
(IROC Philly-RT)

H&N  
Thorax  
Abdomen  
Extremities

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### MD Anderson Phantom Lab phantoms?

Phantoms previously irradiated through MDAPL for QA purposes can be applied to future credentialing needs.

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Thank You

Work supported by PHS grants  
CA10953 and CA081647 (NCI, DHHS).

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