Imaging and Radiation Oncology Core (IROC) Cooperative

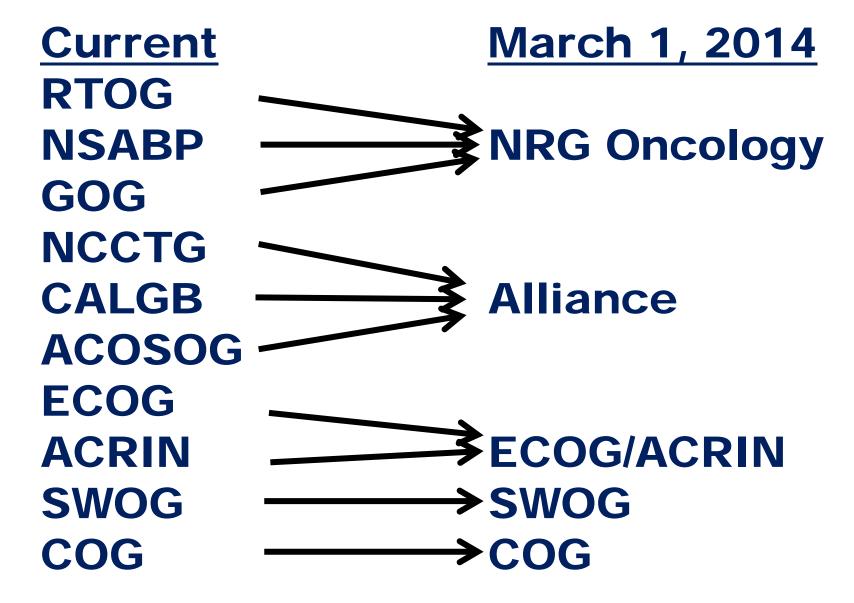






2014 SWAAPM Meeting Jessica Lowenstein, M.S. Assistant Director of IROC - Houston Saturday, April 12, 2014

Clinical Trial Groups



Former ACRIN Core Lab Former RTOG QA Office Former
CALGB Imaging
Core Lab
at Ohio State

Former
Image Guided
Therapy Center
at Wash U

Former Radiological Physics Center (RPC) Former Quality Assurance Review Center (QARC)



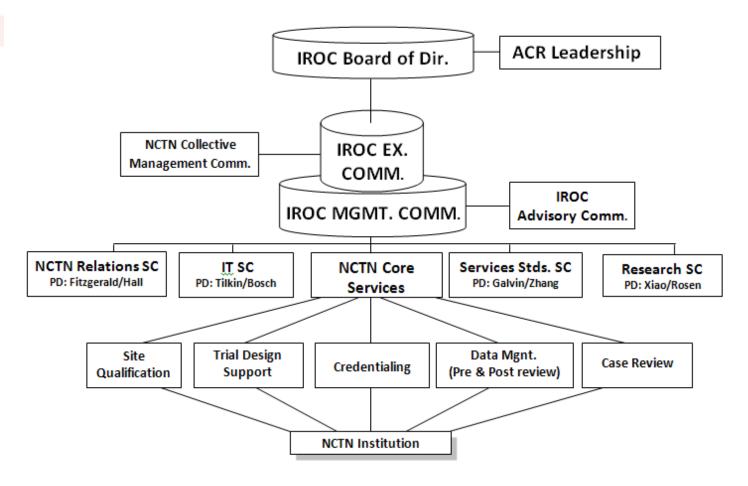
IROC Philadelphia Imaging IROC Philadelphia RT IROC Ohio IROC St. Louis IROC Houston IROC Rhode Island

IROC Mission

Provide integrated radiation oncology and diagnostic imaging quality control programs in support of the NCI's NCTN Network thereby assuring high quality data for clinical trials designed to improve the clinical outcomes for cancer patients worldwide



IROC Leadership Structure



IROC's Five General Core Services

- 1. Site Qualification (Houston)
 (FQs, ongoing QA, proton approval, resources)
- 2. Trial Design Support/Assistance (All IROC QA Ctrs)

 (protocol review, templates, help desk, key contact QA centers)
- 3. Credentialing (Houston, Philly (RT), Philly (I), Ohio) (tiered system to minimize institution effort)
- 4. Data Management (Houston, Philly(RT &I), Rhode Is., St. Louis) (pre-review, use of TRIAD, post-review for analysis)
- 5. Case Review (Houston, Philly(RT), Rhode Is., Ohio)
 (Pre-, On-, Post-Treatment, facilitate review logistics for clinical reviews)

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Site Trial Data Case Data

Qualification Support Management Management
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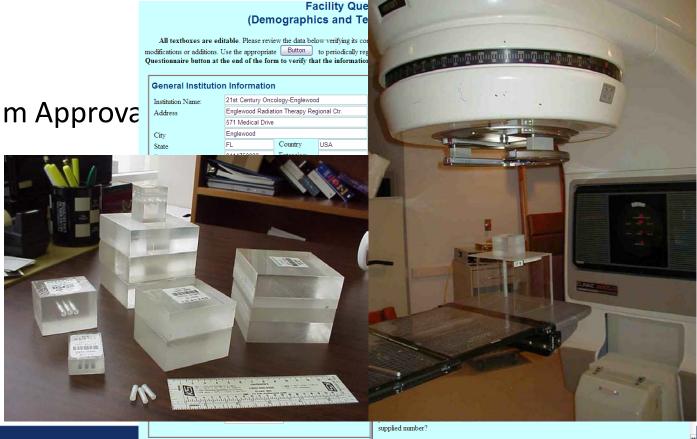


IROC - Site Qualitication

Facility Questionnaire (on-line)

2. OSLD/TLD

3. Particle Beam Approva



Other Personnel - List any other individuals who will be involved with http://localhost:3722/Forms2/Questionnaires/PlanningResourcesForm.aspx

S Local intranet

Trial Concept and Protocol Consultation Key Contact Offices

NCTN Group	Radiation Oncology	Imaging
Alliance	Rhode Island	Ohio
COG	Rhode Island	Rhode Island
ECOG/ACRIN	Rhode Island	Philadelphia (I)
NRG Oncology	Philadelphia (RT)	Philadelphia (I)
SWOG	Rhode Island	Ohio

Houston will be reviewing all patients treated with brachytherapy



IROC - Credentialing RT

Tier 0

Update protocol appropriate information on FQ and data transfer capability

Tier 1

Protocol Specific KA, Pre-Treatment review of 1st patient only, EXBT and Brachytherapy Benchmarks

Tier 2

Independent measurement of treatment deliveries

Tier 3

This tier is reserved for protocols that push the limits of the lower tiers



IROC- Credentialing Imaging

Tier 1

Verified Site capabilities

Tier 2

 Validated capabilities for specific imaging devices

Tier 3

 Validated capabilities for all standard imaging services including local reads

Tier 4

 Validated capabilities for standard and advanced imaging services, reads and assessments

Tier 5

 Certified capabilities for standard and advanced imaging services, reads and assessments



IROC – Data Management

- Management of data both pre-review and postreview
- 2. Common data entry site TRIAD
- 3. RAVE what data should be captured and review of data entered correctly
- 4. Post-review for analysis



IROC – Case Review

Patient Case Clinical and Technical Reviews

Pre-Treatment (formerly Rapid Review)

On-Treatment

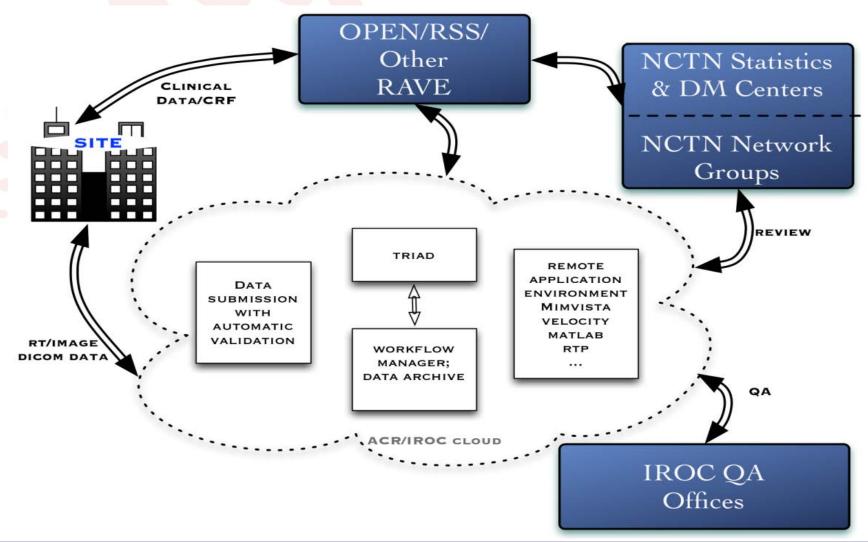
Post-Treatment (formerly Retrospective Review)

IROC facilitates the logistics and data organization for the clinical reviews.

Groups will supply clinicians.



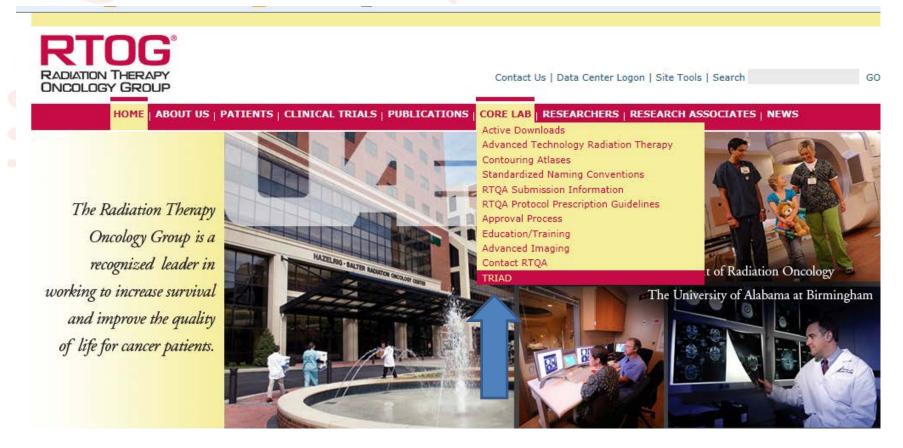
The ACR/IROC Cloud



What is TRIAD ™

• TRIAD™ is the American College of Radiology's (ACR's) image and data exchange platform. TRIAD is a standards based open architecture platform that supports HIPAA security rules relevant to Clinical Trials. It automatically de-identifies the DICOM headers and cleans the PHI from the DICOM images before submission via the internet. Access to the application is role-based and controlled by username and password.

Where to find information on TRIAD



Core Lab Tab of the RTOG website





Contact Us | Data Center Logon | Site Tools | Search

RESEARCHERS | RESEARCH ASSOCIATES | NEWS

GO

S ⊖

Core Lab > TRIAD

Active Downloads

Advanced Technology Radiation Therapy

Contouring Atlases

Standardized Naming Conventions

RTQA Submission Information

RTQA Protocol Prescription Guidelines

Approval Process

Education/Training

Advanced Imaging

Contact RTQA

TRIAD

TRIAD Fact Sheet

TRIAD Information

TRIAD Installation and User Guide

HOME | ABOUT US | PATIENTS | CLINICAL TRIALS | PUBLICATIONS | CORE LAB |

Ditigal Data Submission Form (DT)

Copyright (c) 2014 RTOG | Privacy Statement | Login

RTOG is funded by National Cancer Institute Grant numbers: CA21661, CA37422, and 32115







What does TRIAD look like

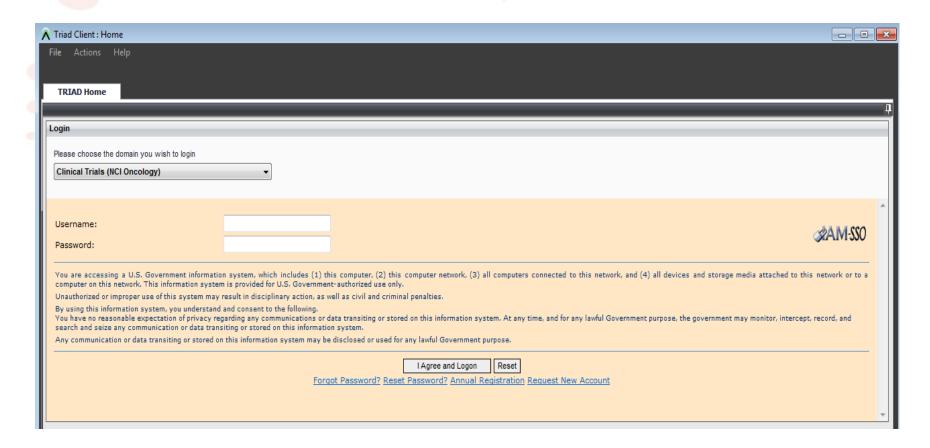




Select Clinical trials (NCI oncology) note: this title will be changing soon to be more clear

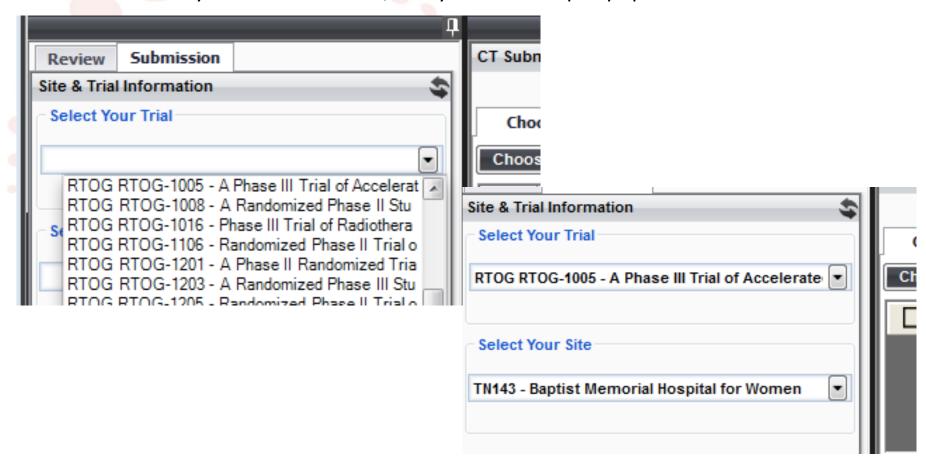


Log in page using the CTEP –IAM interface

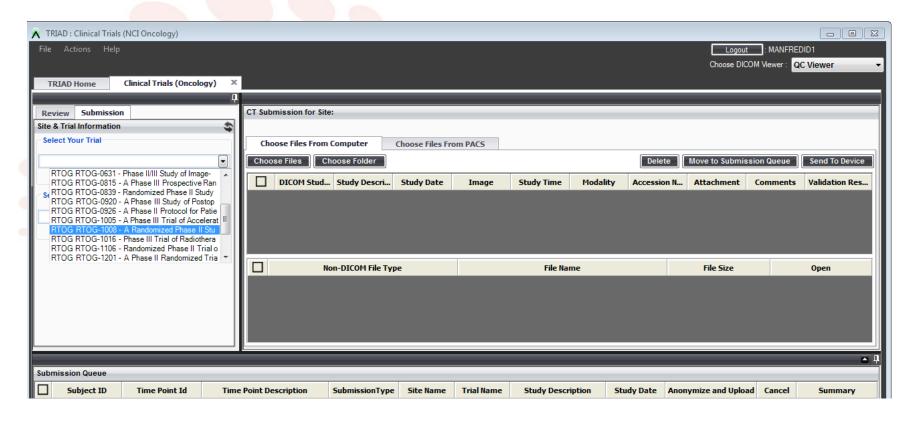




Select the Trial you want to submit, and your site will pre-populate in the next box



What if I do not see the trial I want to submit for?

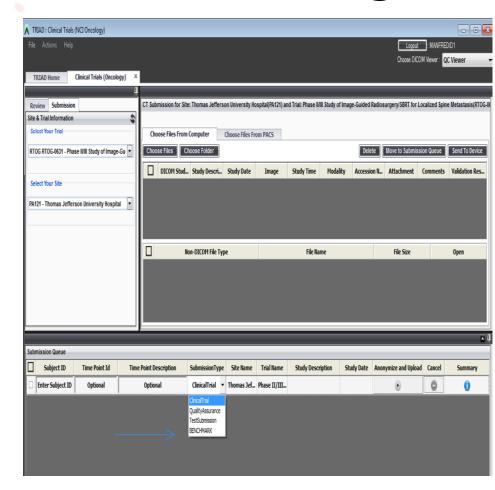


Your site <u>must</u> have IRB approval for the trial to submit cases. If your IRB has expired you will not be able to submit to TRIAD. CTSU will need an updated IRB



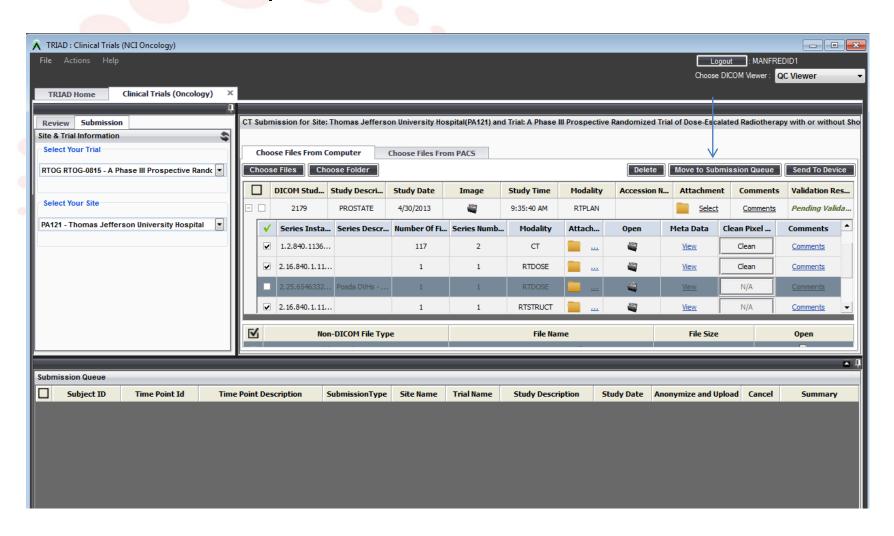
Trials that have RT credentialing

- To submit IGRT and Benchmarks for trials
- Once you select data to import and send to submission you can select "Benchmark" to submit.
- Note: the term benchmark will be changing to RT credentialing





Once imported select Move to submission

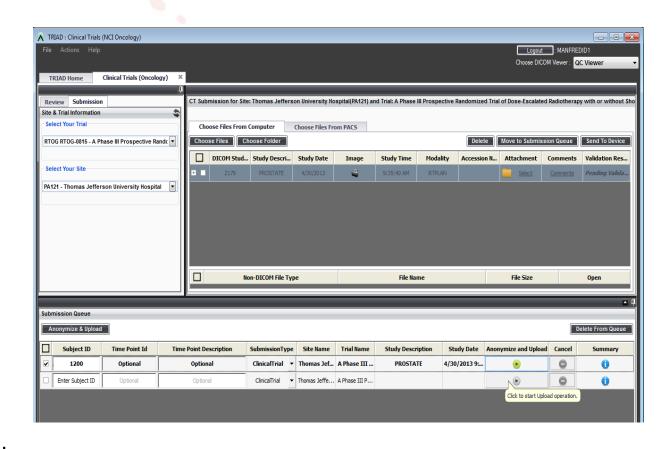


Data moved to submission section

- Place a Check mark next to the case to submit
- Enter the Case number under subject ID
- Submission Type.
 Select
 Clinical for cases
 Benchmark for

credentialing data

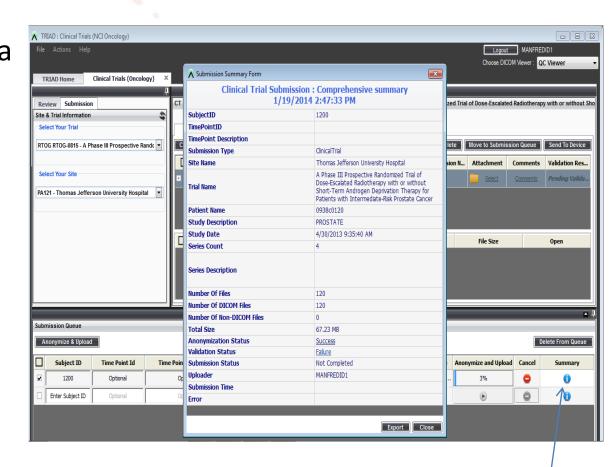
 Click Anonymize and upload





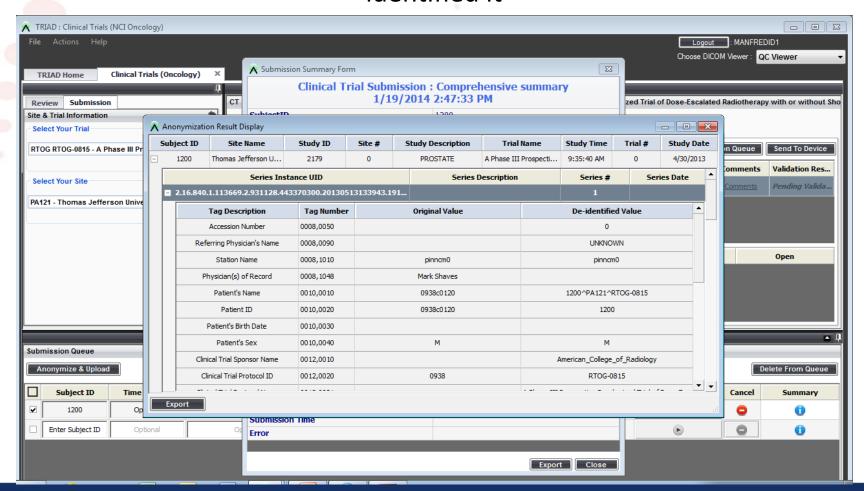
Anonymization and Validation Summary

- To see how the data was anonymized click on the word
 Summary
- To see how the validation either passed or failedclick on the word Success or Failed



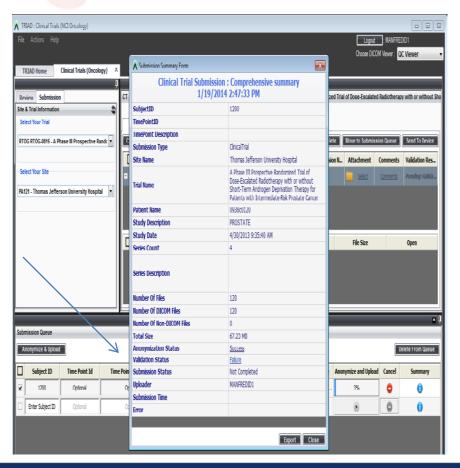
Anonymization Summary

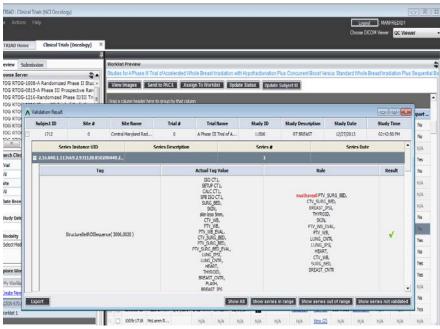
You can compare how it was originally identified and how TRIAD deidentified it



Structure Validation

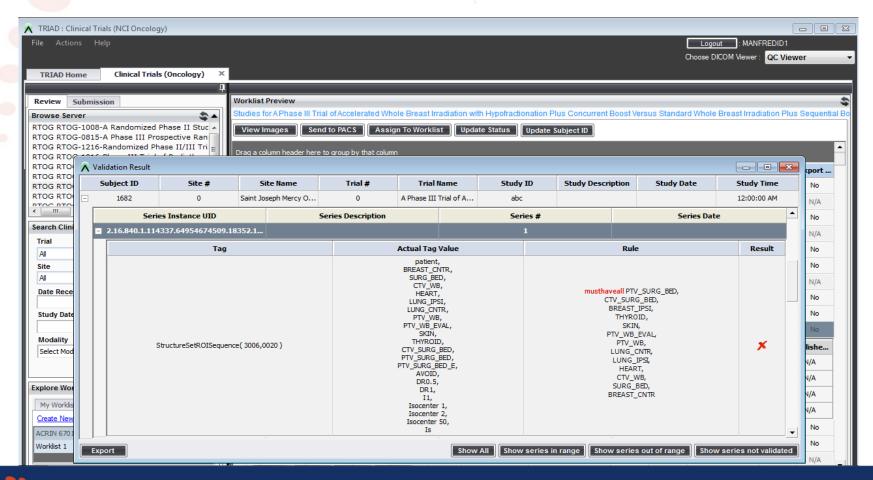
If your Validation Status is a Success then all of the Structures that were required in the protocol were submitted and labeled correctly.





Structure Validation

If your Validation Status is labeled as failure then all of the Structures that were required in the protocol were NOT submitted and/ or labeled correctly.





SEARCH

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Global Leaders in Imaging and Radiation Oncology Clinical Trial Quality Assurance

Welcome

Welcome to the recently I sunched Imaging and Radiation Oncology Core (IROC) Website. Our goal is to grovide easy access to Information about IROCs quality assurance (QA) services and processes for individuals at sites participating in NO reports and trials. We keen the community of researchers up to date about now Websi to content, materials and functional its through period of announcements that are such yed on the Websi to.

We will come your comments and suggestions. Pilease contact usil

Announcements



IROC launches Its quality assurance WebSite to suggest the National Cancer Institute's National Clinical Trials Network read more __

Why Is QA Important?

- Image Guided Therapy Cente (RDC St. Louis

- | Esciological Physics Conte



Summary

- IROC RT QA centers have decades of experience, knowledge and infrastructure.
- Protocol review as early as possible is critical to establishing appropriate QA procedures.
- Patient case reviews require IROC and Groups to work together.
- RT and Imaging are working closely together.
- Collaboration and feedback from NCTN Groups is required.
- Groups to have complete accessibility to data.



Thank You Questions?



Accessing TRIAD

- Integrated with CTSU log in using CTEP-IAM username and password
- Any staff who will be submitting RT digital data MUST be listed on the site roster as TRIAD SITE USER

Accessing TRIAD

 NRG sites: The Lead RA must first update their RTOG roster and submit it to membership, once notified by membership you then contact CTSU to update in their system as well

Accessing TRIAD

- NON- NRG sites need to update their rosters directly through the CTSU helpdesk
- As protocols are amended, RT data for all NRG trials will be submitted via TRIAD

Validation Failure

- Currently even if the structure validation failed. The import to TRIAD is still completed.
- You may be requested to resubmit the case correctly once it is QA'd.
- Please note that it did not comply and submit your next case correctly.

Structure Validation

- In the near future however, structures names that do not match the list in the protocol or are missing required structures will not be imported into TRIAD
- The issues will need to be resolved at the site before it can be submitted to TRIAD

Structure Validation

- Tell your physics and dosimetry staff to always access the protocol on the website for the most up to date version.
- 2 weeks prior to this implementation a broadcast will go out indicating the affective date as each trial is rolled out.
- Ensure your dosimetry staff know when this will be enforced