Imaging and Radiation Oncology Core Cooperative: QA Center Organization and Core Services

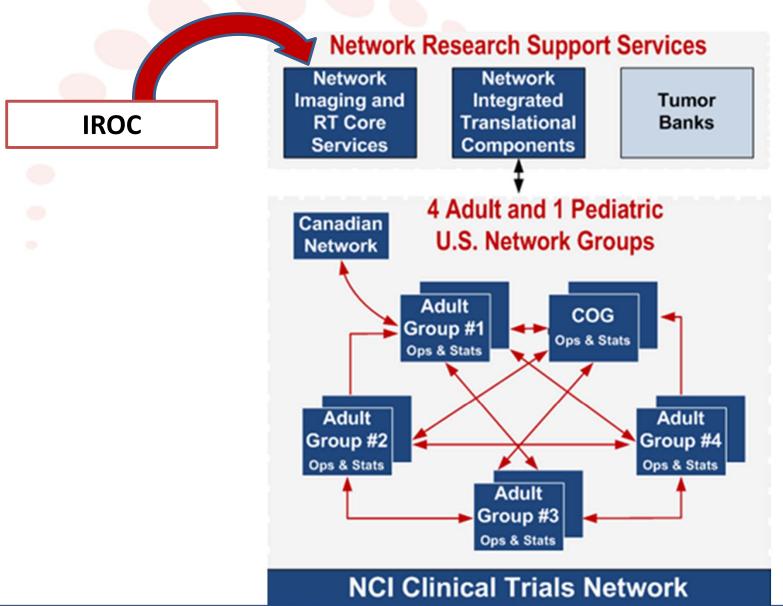








NCI National Clinical Trials Network





Clinical Trial Groups

Current March 1, 2014 RTOG **₹NRG Oncology NSABP** GOG **NCCTG Alliance CALGB ACOSOG ECOG ₹ECOG/ACRIN ACRIN SWOG >**SWOG COG >COG



IROC's Definition Who Are WE?

The Imaging and Radiation Oncology Core Cooperative better known as IROC:

- Is A New Clinical Trial Quality Assurance Organization comprised of 6 QA Centers with multiple Pls. Began operation on March 1, 2014
- ❖ IROC RT and Imaging Centers have an extensive and impressive amount of experience, knowledge and infrastructure to aid in the improvement of clinical outcomes for cancer patents.



IROC's 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 Principal Investigators



David S. Followill, PhD, IROC Co-director and principal investigator for radiation oncology and chief of outreach physics in the Department of Radiation Physics at the University of Texas MD Anderson Cancer Center in Houston



Michael V. Knopp, MD, PhD, IROC Co-director and principal investigator for imaging and the director of the Wright Center of Innovation in Biomedical Imaging at Ohio State University in Columbus, Ohio

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 Board of Directors Members

ACR IROC Grant

Co-Directors: D. Followill, Houston (RT) and M.V. Knopp, Ohio (Imaging)

ACR rep: Steve king

Sub-awards to:

IROC Ohio
PI: M.V. Knopp

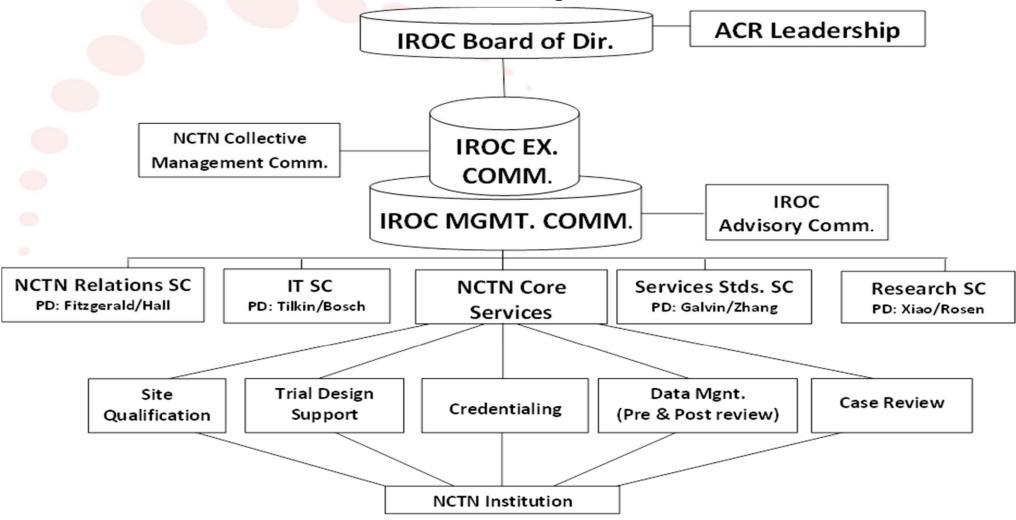
IROC Houston
PI: D. Followill

IROC Rhode Island
PI: T.J. FitzGerald

IROC St. Louis
PI: J. Michalski



IROC Leadership Structure

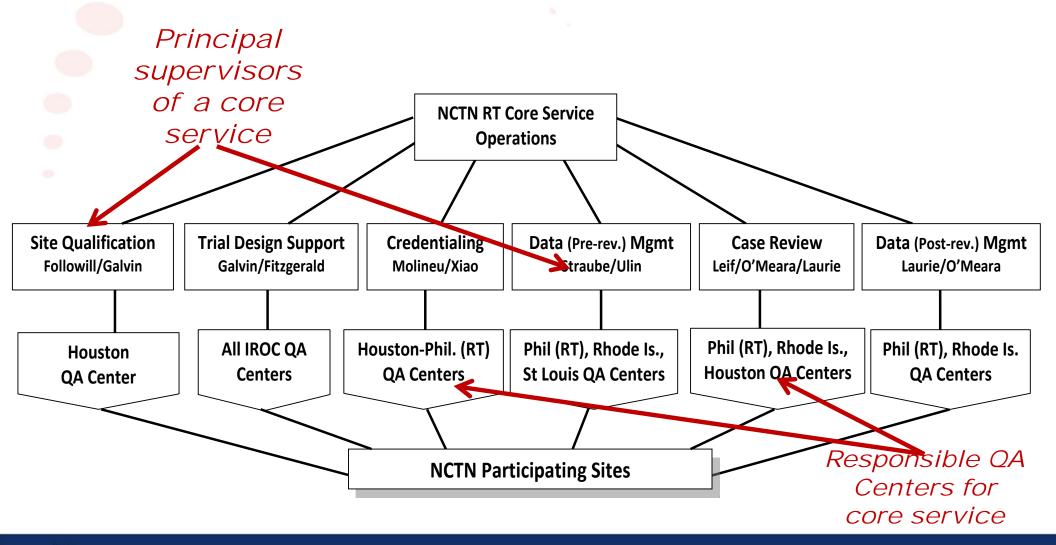


IROC Executive Committee

Co-Directors: Followill/Knopp IROC Admin: King/O'Meara/Laurie



IROC's NCTN RT Core Services

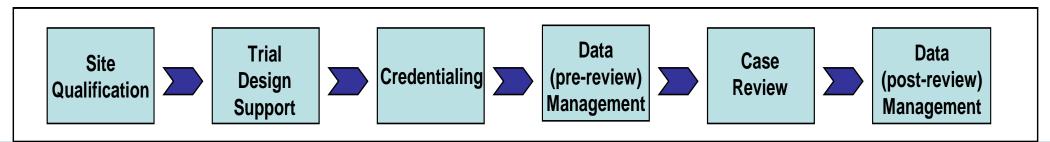




IROC's Five General Core Services

- 1. Site Qualification (Houston)
 (FQs, ongoing QA (OSLD, visits), 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)) (tiered system to minimize institution effort)
- 4. Data Management (Houston, Philly(RT), Rhode Is.) (pre-review, use of TRIAD, post-review for analysis)
- 5. Case Review (Houston, Philly(RT), Rhode Is.)
 (Pre-, On-, Post-Treatment, facilitate review logistics for clinical reviews)





	Web Link for Procedures and Instructions: http://irochouston.mdanderson.org				
RT Credentialing Requirements	Treatn	nent Mo	odality		
	SBRT	IMRT	Proton	Key Information	
Facility Questionnaire	X	X	X	The IROC Houston electronic facility questionnaire (FQ) should be completed or updated with the most recent information about your institution. To access this FQ, email irochouston@mdanderson.org to receive your FQ link.	
Credentialing Status Inquiry Form	X	X	X	To determine whether your institution needs to complete any further credentialing requirements, please complete the "Credentialing Status Inquiry Form" found under credentialing on the IROC Houston QA Center website (http://irochouston.mdanderson.org)	
Knowledge Assessment	N/A	N/A	N/A		
Benchmark Cases	N/A	N/A	N/A		
Phantom Irradiation	X	X	X	A liver phantom study provided by the IROC Houston QA Center must be successfully completed. Instructions for requesting and irradiating the phantom are found on the IROC Houston web site (http://irochouston.mdanderson.org). Note that only the most sophisticated technique needs to be credentialed, e.g., if credentialed for IMRT, 3DCRT may be used. VMAT, Tomotherapy, Cyberknife and proton treatment delivery modalities must be credentialed individually.	
IGRT Verification Study	X	X	X	The institution must submit a sample of verification images showing their ability to reproducibly register daily IGRT information with a planning CT dataset (i.e., the GTV falls within the CT simulation defined PTV). The patient ("as if patient") used for this study must have a target (or mock target) in the liver. The information submitted must include 2 IGRT datasets (from 2 treatment fractions) for a single patient and must employ the method(s) that will be used for respiratory control for patients entered from a particular institution (e.g. abdominal compression, breath hold, etc). This information with a spreadsheet (the spreadsheet is available on the IROC Houston web site, http://irochouston.mdanderson.org	
Pre-Treatment Review	X	X	X	The first patient to be enrolled from each institution will be planned per NRG-GI001 specifications and submitted via TRIAD for evaluation by the IROC Houston QA Center and the trial PI or designee. Feedback will be given to the institution within 3 business days regarding any concerns prior to the patient being treated. Any required treatment plan modifications must be resubmitted for evaluation prior to treatment.	
				Credentialing Notification Issued to:	
Institution				IROC Houston QA Center will notify the institution and NRG Headquarters that all desired credentialing requirements have been met.	

IROC QA Centers Key Support

(IROC Support Contacts for NCTN Groups)

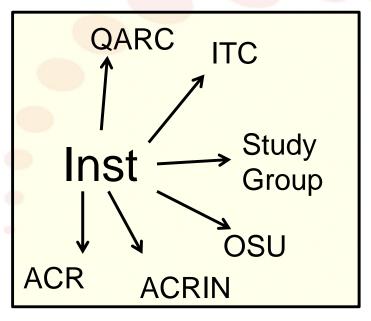
NCTN GROUP	RADIATION ONCOLOGY	IMAGING
Alliance	Rhode Island	Ohio
COG	Rhode Island	Rhode Island
ECON-ACRIN	Rhode Island	Philadelphia (I)
NRG Oncology	Philadelphia (RT)	Philadelphia (I)
SWOG	Rhode Island	Ohio

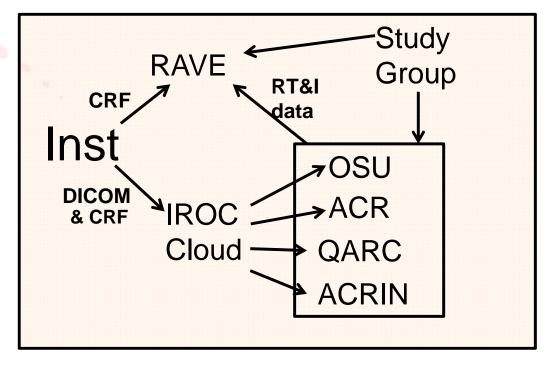


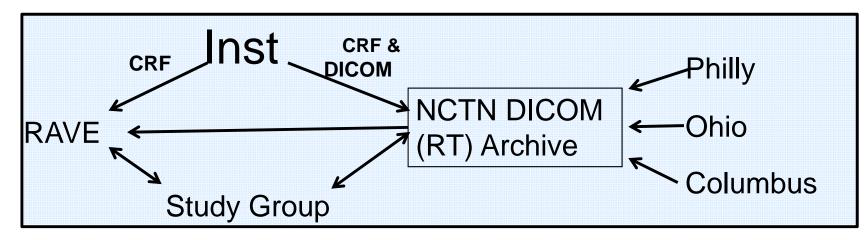
Data Transfer

2014-2015

2012



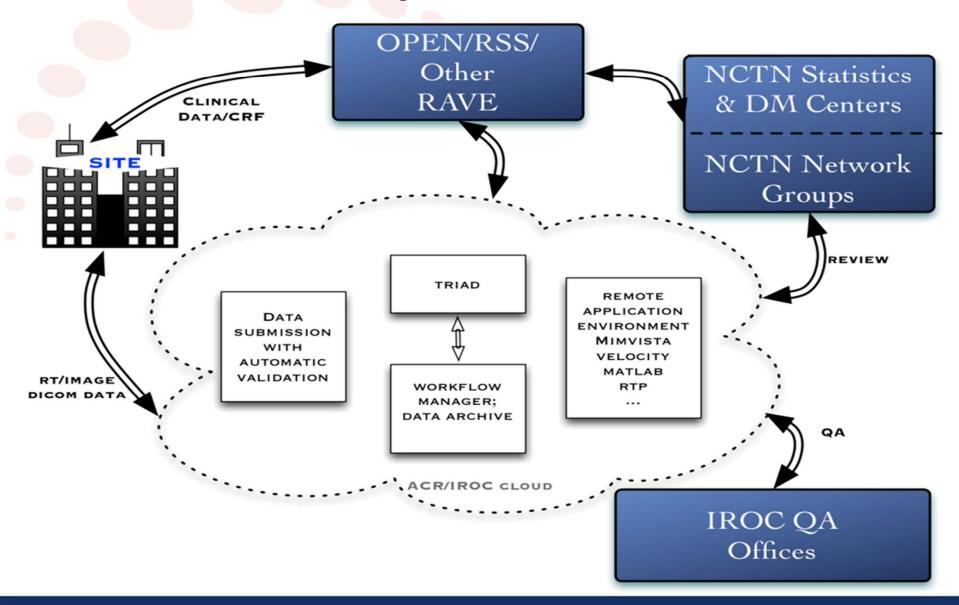




2017



The ACR/IROC Cloud





TRIAD

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.

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
 - ➤ The Lead RA must update their roster with the staff members that need to submit via TRIAD on the CTSU website
 - NON- RTOG sites need to update their rosters directly through the CTSU helpdesk
 - ➤ After March 1st RT data for all NSABP, GOG and RTOG (NRG) trials will be submitted via TRIAD



of Radiology

ACR



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About Us Services Trial Credentialing Resources News & Events



Global Leaders in Imaging and Radiation Oncology Clinical Trial Quality Assurance

Welcome

We foome to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) websites. Our overarching goal is to provide easy to the recently launched Imaging and Radiation Oncology Core (IROC) websites. Our overarching goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched Imaging goal is to provide easy to the recently launched easy to the raccess to Information about IROC's quality assurance (QA) services and processes for Individuals at sites participating in NCI-leading and processes for Individuals at sites participating in NCI-leading (ROC) and the second of the secondsponsored trials. As the National Clinical Trials Network gets underway, the IROC team will work to make this website a comprehensive resource for imaging and radiotherapy quality assurance activities.

We welcome your comments and suggestions. Please contact us!

Announcements



IROC launches its website to support the continuum of imaging and radiotherapy quality assurance services for the National Cancer Institute's National Clinical Trials Network.

read more ...

Why Is QA Important?

Quality Assurance Centers

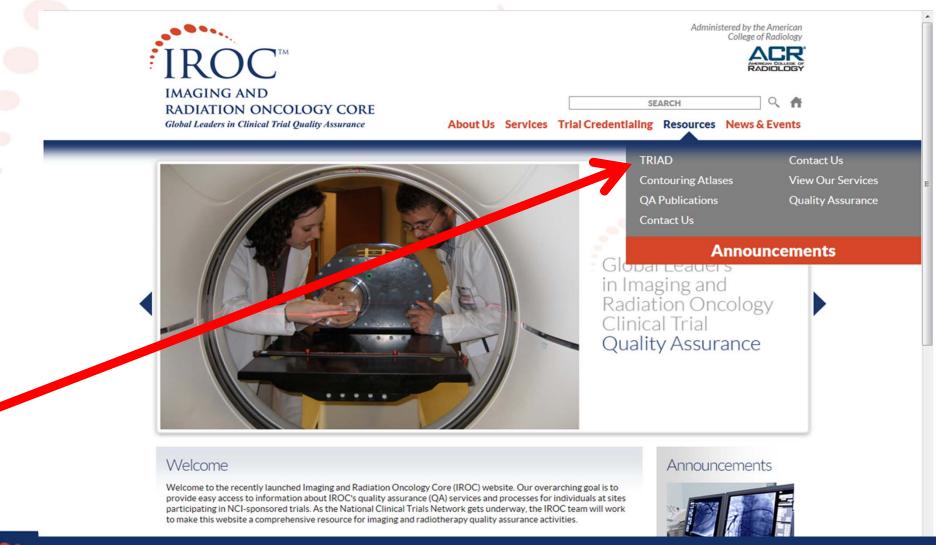
- ACR Disgnostic imaging Core Laboratory
 IROC Philadelphis Imaging
 Imaging Core Laboratory
 IROC Obio
- Image Guided Therapy Center IROC St. Louis

- Quality Assurance Review Center
 IROC Rhode Island
 ACR Radiation Oncology Core Laboratory
 IROC Philadelphia RT
- Radiological Physics Center IROC Houston



IROC WEBSITE

Where to find information on TRIAD (www.irocqa.org)





Summary

- The NCI NCTN Reorganization is how IROC started.
- 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
- Be Patient, this is new to us as well!



Thank You



Questions

