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 PIs. 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 patients.
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
**ACR IROC Grant**

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

ACR rep: Steve king

Sub-awards to:

- **IROC Rhode Island**
  PI: T.J. FitzGerald

- **IROC Houston**
  PI: D. Followill

- **IROC Philadelphia (RT)**
  PI: J. Galvin

- **IROC Philadelphia (Imaging)**
  PI: M. Rosen

- **IROC Ohio**
  PI: M.V. Knopp

- **IROC St. Louis**
  PI: J. Michalski

**IROC Board of Directors Members**

**Global Leaders in Clinical Trial Quality Assurance**
IROC Leadership Structure

IROC Executive Committee
Co-Directors: Followill/Knopp
IROC Admin: King/O’Meara/Laurie
IROC’s NCTN RT Core Services

Principal supervisors of a core service

Site Qualification
Followill/Galvin

Trial Design Support
Galvin/Fitzgerald

Credentialing
Molineu/Xiao

Data (Pre-rev.) Mgmt
Straube/Ulin

Case Review
Leif/O’Meara/Laurie

Data (Post-rev.) Mgmt
Laurie/O’Meara

Houston QA Center

All IROC QA Centers

Houston-Phil. (RT) QA Centers

Phil (RT), Rhode Is., St Louis QA Centers

Phil (RT), Phil. (RT), St Louis QA Centers

NCTN Participating Sites

NCTN RT Core Service Operations

Responsible QA Centers for core service
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)
<table>
<thead>
<tr>
<th>RT Credentialing Requirements</th>
<th>Web Link for Procedures and Instructions: <a href="http://irochouston.mdanderson.org">http://irochouston.mdanderson.org</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Treatment Modality</strong></td>
<td><strong>Key Information</strong></td>
</tr>
<tr>
<td>SBRT</td>
<td>IMRT</td>
</tr>
<tr>
<td>Facility Questionnaire</td>
<td>X</td>
</tr>
<tr>
<td>Credentialing Status Inquiry Form</td>
<td>X</td>
</tr>
<tr>
<td>Knowledge Assessment</td>
<td>N/A</td>
</tr>
<tr>
<td>Benchmark Cases</td>
<td>N/A</td>
</tr>
<tr>
<td>Phantom Irradiation</td>
<td>X</td>
</tr>
<tr>
<td>IGRT Verification Study</td>
<td>X</td>
</tr>
<tr>
<td>Pre-Treatment Review</td>
<td>X</td>
</tr>
</tbody>
</table>

**Credentialing Notification Issued to:**
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)

<table>
<thead>
<tr>
<th>NCTN GROUP</th>
<th>RADIATION ONCOLOGY</th>
<th>IMAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alliance</td>
<td>Rhode Island</td>
<td>Ohio</td>
</tr>
<tr>
<td>COG</td>
<td>Rhode Island</td>
<td>Rhode Island</td>
</tr>
<tr>
<td>ECON-ACRIN</td>
<td>Rhode Island</td>
<td>Philadelphia (I)</td>
</tr>
<tr>
<td>NRG Oncology</td>
<td>Philadelphia (RT)</td>
<td>Philadelphia (I)</td>
</tr>
<tr>
<td>SWOG</td>
<td>Rhode Island</td>
<td>Ohio</td>
</tr>
</tbody>
</table>
Data Transfer

2012

Inst

QARC
ITC
Study Group
OSU
ACR
ACRIN

2014-2015

Inst

RAVE
CRF
RT&I data
IROC Cloud
OSU
ACR
QARC
ACRIN

2017

Inst

CRF & DICOM
CRF

RAVE

NCTN DICOM (RT) Archive

Study Group

Philly
Ohio
Columbus
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 1\textsuperscript{st} RT data for all NSABP, GOG and RTOG (NRG) trials will be submitted via TRIAD
Welcome to the recently launched Imaging and Radiation Oncology Core (IROC) website. Our overarching goal is to provide easy access to information about IROC's quality assurance (QA) services and processes for individuals associated or participating in IROC-sponsored trials. As the National Clinical Trials Network grows and evolves, the IROC team will work to make this website a comprehensive resource for imaging and radiation therapy quality assurance activities.

We welcome your comments and suggestions. Please contact us.

Contact Us  View Our Services

Why Is QA Important?

IROC Launches New Website to Support the Continuum of Imaging and Radiation Therapy Quality Assurance Services for the National Cancer Institute's National Clinical Trials Network.

Quality Assurance Centers
- ACR Diagnostic Imaging Core Laboratory
  - IROC Philadelphia - Imaging
- Imaging Core Laboratory
  - IROC, Utah
- Image Guided Therapy Center
  - IROC, St. Louis
- Quality Assurance Review Center
  - IROC, Ridgefield
- ACR Radiation Oncology Core Laboratory
  - IROC, Philadelphia - RT
- Radiological Physics Center
  - IROC, Houston

Global Leaders in Clinical Trial Quality Assurance
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