ACOSOG
CALGB
COG
ECOG
PBTC
SWOG

Industry Contracts with Sanofi-Aventis

Group	Active/Open	Active/Total	In Development
ACOSOG	3	5	4
CALGB	14	18	3
COG	34	60	18
ECOG	8	17	6
PBTC	4	4	-
SWOG	8	9	9

Total Active: 113



QARC – Current Status Interventional Reviews



QARC – Current Status Impact of On-treatment Review

Impact of On-Treatment Code	Appropriate	Major Deviation	Minor Deviation	Total
1 Modification not required	72	3	23	102
2 Modifications required and made	14	0	3	25
3 Modifications required and not made		14	10	21
4 Multiple modifications required and made	5		2	7
5 Multiple modifications required and not made		9	2	12
6 Deviation subsequent or unrelated to on- treatment review		17	13	20
Total	91	43	53	187

Diagnostic Imaging Data Submitted in Digital Format

2002	10 cases	
2003	379 cases	
2004	978 cases	Patient Electronic File Storage Dec 03 15 Gb
2005	290 cases * as of 3/05	May 04 36 Gb Aug 04 72 Gb Feb 05 111 Gb



QARC must confirm in real time that patient is in CR for randomization to occur

Image Activity Attributes Filter

Protocol

Preset

Format

C Scroll

O Select

1AX Database - [frmPgDicommunicator¥iewer : Form]

le <u>E</u>dit <u>V</u>iew Insert F<u>o</u>rmat <u>R</u>ecords <u>T</u>ools <u>W</u>indow <u>H</u>elp



Pre-study





Image Activity Attri	butes Filter	
QARC Number LIJAH01AAN*L		
Coop Group COG		
Case Number 742165		
Preset Unspecified •		
Format Interpolation	1:1 💌 Original 💌	
Active Tool Scroll 	O Win/Lev	
C Select C Flip/Rotate	C Zoom	
Series Navigation		
Image Navigation		

Post 4 cycles

	CARC C	QARC	
	Gallium	PET	
2002	90	10	
2003	50	50	
2004	30	70	
Voryfo	AV DET OT stuc	lice	



Dicommunicator...

LIT

images

CRA's local system

s/he has sent to QARC

burned to CD)

QARC DICOMMUNICATOR CureSearch

Digital Image Submission to QARC

What is Dicommunicator? Institution SMTP Institution PACS CRA Desktop PC **QARC PACS Archive** Archive Server · Is a software package that facilitates the submission of electronic diagnostic imaging (DICOM files) to the Quality Assurance Retrieve Relav Send Review Center in Providence, RI Images to Emails off o Emails to Local SMTP QARC Was originally developed and donated to Syster serve COG by Keith White, MD of Primary Children's Medical Center in Salt Lake City, • Is compliant with the DICOM standard which allows for query, retrieval, storage, CRA can use Dicommunicator to: · Emails with attached images are Dicommunicator can be · Each study is sent as a printing, viewing and transfer of electronic received at QARC Mail Server configured to: number of sequential emails View DICOM images with corresponding image • "Pull" (Query/Retrieve) · Images are decrypted and Assign Protocol and COG attachments Allows the CRA to "Pull" or "Push" DICOM images directly from PACS imported into the QARC PACS Number to images imaging from institution's PACS archive to to local system · Emails are relayed off of the Archive using Dicommunicator institution's STMP Server and Scrub patient demographics application "Push" images from sent out of the institution to • Burn imaging to a CD or Encrypt Each study is linked with its PACS to local system Anonymizes and encrypts images before OARC image files and email them to corresponding patient record they are sent via email (images can also be QARC Physicians at QARC are able view the images directly from the · Helps the CRA keep track of which studies patient record in the QARC database

Dicommunicat or software allows CRA to submit DICOM imaging to QARC in just a few easy steps



View DICOM Images from Desktop

Assign Protocol and COG Number to Images

Email Anonymized / Encrypted Images to QARC and Track Submissions

How Can I Get Dicommunicator?

Submit a PACS Questionnaire to

- QARC
- 2. Select and configure the system(s) that will house the
 - Dicommunicator software

System Requirements:

- Running Microsoft Windows
- At least 128MB of RAM
- Microsoft Access version 2000
- installed
- Ability to send Email
- CD burning capabilities
- On the same network as the
- PAC's Archive
- Ability to access the internet
- Static IP address
- AE title
- The PAC's administrator needs to be available during the
- installation of Dicommunicator CRA needs Administrative rights on the system
- 3. Purchase a Dicommunicator license for each system where you would like to install the software - one time fee of \$215 per workstation
- A CD containing the Dicommunicator software will be mailed to you
- 5. Contact the Dicommunicator Application Specialist at QARC to set up an appointment to walk
- through the installation For More Information...

Contact the Quality Assurance Review Center:

- 272 West Exchange Street, Suite101
- Providence, RI 02903-1025 Phone # (401) 454-4301
- Dicommunicator@QARC.org

www.qarc.org/cog_dicommunicator .htm

QARC – Future Status

 Developing relationship with other Image Centers
 ACRIN
 CALGB
 COG

Imaging Import Wizard – transfers RT image data into powerpoint files. Powerpoint file linked to patient record in MAX database. All linked with patient record.

🗞 MAX Database - [Patient Data]
<u>File E</u> dit <u>V</u> iew Insert F <u>o</u> rmat <u>R</u> ecords <u>T</u> ools <u>W</u> indow <u>H</u> elp
Data Status DS 3C Review Data Clinical 1 Clinical 2 Mail eMaterials
QARC Number: VICS0023JG*H
1 Item(s) Exist
<u>Category Target Volume</u> <u>Data Type</u> <u>Description</u> <u>Date Recv'd Series</u>
▶ RT - 06-15-04 _
0001_VICS0023JG0H_186135_06-15-04_RT_186135.ppt Edit/Details
Comment
eMaterials Types Delete Item Print View File I dodify eMaterials Import eMaterials







Physics
 Benchmarks
 Protocol Development
 Case Reviews

QARC Benchmarks



QARC Benchmarks Developments in 2004

IMRT Acceptability Criteria
CT/MR Fusion
Proton
CT based Head & Neck

QARC Computing Infrastructure - Current

QARC Computing Infrastructure - Current



QARC Computing Infrastructure – Near Future

Upgrade web server to .NET to accommodate web development – Dicom Web Viewer

Install Backup Domain Controller/Database Server

Install additional PACS server to load balance currently stressed system

QARC Computing Infrastructure – Near Future

Green indicates updates



QARC Computing Infrastructure – Future

Blue indicates updates



QARC

Strategy for Future Developments

 Continue to streamline front end data entry from primary investigators to QA centers
 Develop backend strategies for QA database synergy and data query
 Develop an ATC strategy for imaging