Update on ATC Method 1 at QARC

3 Phases to This Project

- **Initial installation and configuration**
- **Training**
- **Establishing data handling process at QARC**

Progress in the past year

6/2004	**Project starts at ATC meeting: ITC to develop a Linux-based platform for the receipt and QA of volumetric, digital data at QARC using ATC Method 1.**
9/2004	**Linux workstation hardware purchased by QARC ready for network access**
10/2004	**CMS grants permission for limited use of proprietary software components (used in ATC Method 1 data import and review) to support ATC activities at QARC**
11/2004	**RRT and data import tools installed on QARC-ITC Linux server; ITC demonstrates user interface for data import.**
12/2004	**RRT grayscale presets added for QARC; ITC Linux system acquired to facilitate support; ITC demonstrates import of digital data from CD-ROM (at QARC) and from FTP (via ITC).**

Progress in the past year (cont.)

1/2005	**QARC requests data for COG protocol ACNS0331 cases from selected institutions capable of digital export; Dr. FitzGerald reviews target volumes for pediatric CNS patient using RRT server at QARC.**
2/2005	**Training session for data import; QARC requests digital data for COG protocol ACNS0126 from selected institutions.**
3/2005	**RRT enhanced to display submitted <u>or</u> re-calculated DVHs and allow spaces in structure names. Digital data working group formed at QARC to develop process for handling digital RT data.**
4/2005	**COG protocol pages added to ATC web server**
5/2005	**RRT linear measurement tool tested at QARC; FTP server software and account management tools installed at QARC.**

Progress in the past year (cont.)

6/2005	Data backup working at QARC; simplified import of submitted DICOM DVHs demonstrated; ITC developing support for review of HFP scans.
7/2005	Simplified import of DVHs (both RTOG and DICOM format) working; RRT can display multiple, submitted DVHs; "safe" handling of submitted structure names in DVHs; Plan summary and data import log displays in RRT working; Import of prone CT scans tested; QARC FTP server works with firewall in "passive" mode.
8/2005	COG protocol "templates" added to data import UI; QARC printer configured on Linux workstation; QARC website updated with data submission procedures for COG protocols (linked on ATC website).
9/2005	Implement auto-archiving of FTP data in data import UI of Linux workstation. FTP accounts set up for current sites on QARC server.
10/2005	RRT used in final review meeting for protocol ACNS0331. Digital data working group at QARC disbanded.

Modifications to QARC RRT User Interface

- *List of window/level presets
- *DVH data file display
- *User calculated DVH's added to RRT display
- Simplified recalculation of DVH's
- *Measuring tool added
- Data import log file display
- *Plan summary button now connected to plan list

*Modifications also added to web-based RRT

Current Accrual

Protocol	Number of Cases
ACNS0121	5
ACNS0126	5
ACNS0331	8
8002	2
Total of 20 cases from 11 institutions	

Where do we go from here?

- Post ftp submission instructions for QARC ftp site.

- Encourage digital RT submission from <u>all</u> participants in selected protocols

- Add another COG protocol or select one from another group (or both)?

Top IMRT Accruing Protocols in COG
(1/1/2005 – 10/20/2005)

Protocol	IMRT Cases	Total Cases
ACNS0121	18	94
ACNS0126	10	50
ACNS0331	13	52
D9803	15	105
Total IMRT cases received in 2005 (all groups): 103		
Total IMRT cases received in 2005 (COG only): 68		

ATC 10/28/05

Continuing Support From ITC

- Our goal is to become as self-sufficient as possible.

- Will need occasional (?) assistance as problems arise.