

# Summary

## ATC Meeting Hosted by RTOG

### San Diego, CA

### January 17, 2008

# Attendees - January 17, 2008 ATC Meeting San Diego, CA

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Brasteter, Hank	ACR – MIS	O'Meara, Betty	RTOG
Norwood, Gina	ACR – Cl. Tr. Informatics	Quarles, Lorraine	RTOG
Young, Brenda	ACR – Cl. Tr. Informatics	Sadek, Ramses	RTOG
Bosch, Walter	ITC	Gillin, Michael	RTOG/M.D. Anderson
Michalski, Jeff	ITC/Wash. Univ.	Galvin, James	RTOG/TJU
Straube, Bill	ITC	Purdy, James	ITC/UC-Davis
Deasy, Joe	Washington University	Goldwein, Joel	IMPAC
Deye, James	NCI	Breitman, Karen	Tom Baker Cancer Ctr
Vikram, Bhadrasain	NCI	Ying, Xiao	Thomas Jefferson Univ.
Wong, Rosemary	NCI	Rose, Christopher	QRRO
Urie, Marcia	QARC	Porterfield, Hank	Patient Advocate
Followill, David	RPC	Jeraj, Robert	Univ. of Wisconsin
Ibbott, Geoff	RPC	Portelance, Lorraine	McGill University
Bonanni, Roseann	RTOG	Hope, Andrew	Princess Margaret Hosp.
Hoffman, Wilma	RTOG	Newhauser, Wayne	Univ. of Texas/MDACC
Linnemann, Nancy	RTOG	Barthold, Joseph	MGH
Lustig, Robert	RTOG		

# Challenges/Opportunities: ATC Supported Trials

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- Continue to update QuASA<sup>2</sup>R without disrupting support of ongoing clinical trials;
- Developing a more formal mechanism for evaluating how well ATC is meeting its **developmental, coordination, and service** objectives;
- Multi-modality imaging (PET, MRI, MRS) target definition (data import) and subsequent image fusion QA;
- IGRT data submission and QA (EPID, daily MV and kV Cone beam CT, Helical Tomotherapy MV CT, US,...);
- QA review of the accuracy and quality of the institution's motion management methodology;
- Heterogeneous dose calculations (QA evaluation criteria);
- Outcome analysis tools (e.g., for protocols such as lung in which the dose data archived have either poor or no dose heterogeneity corrections);
- Proton beam therapy;
- ATC compliant data export for specialized stereotactic treatment systems (e.g., Elekta Gamma Knife);
- New processes such as adaptive radiation therapy (need deformable registration QA tools)
- Data sharing

# Action Items – January 17, 2008

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1. NCI (Dr. Deye) to appoint ATC Evaluation Committee (ATCEC)
2. Proton beam credentialing and case remote QA review
  - a. QARC Proton Questionnaire to be updated (Urie, Galvin).
  - b. RPC to evaluate use of prostate phantom for proton QA (Ibbott, Gillin)
  - c. Proton centers to provide feedback to ITC on adequacy of Remote Review Tool for case review (Bosch, physician reviewer to be appointed to ATIC by J. Michalski)
3. Development of CERR for data conversion and protocol case review
  - a. Develop procedure/process for synchronization of changes made to CERR (particularly as it relates to QA of clinical trials).
  - b. Develop RTPlan export from CERR
  - c. Evaluate CERR vs PLUNC (particularly regarding deformable image registration)
  - d. Develop grid enabled CERR
4. Develop standard names for target volumes and organs-at-risk for ATC supported protocols.
5. Need to streamline review of DICOM images (server-side viewer needed).
6. Evaluate DRR submission vs generated DRR (extracted from 3D data)
7. Develop data submission tool (anonymized) for QuASA<sup>2</sup>R
8. Develop (or use commercial TPS) QA tool for dose recalculation (e.g., proton/neutron MC code)

# Action Items (Continued) – January 17, 2008

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9. Evaluate the suitability of QARC's MAX database for use in all ATC centers.
10. Provide developmental/equipment purchase schedule for QuASA<sup>2</sup>R (Bosch, Purdy)
11. Agree on dates for next ATC meeting (March 27-28 at ITC; June 19 at RTOG; TBD at RPC; TBD-ATC Steering Committee; TBD-ATCEC)
12. Finalize agenda for for next ATC meeting (March 27-28 at ITC)
13. ATC subcontractors to submit Progress Report to Dr. Purdy by April 1, 2008 (FitzGerald, Curran/O'Meara, Ibbott)
14. Prepare response to ATC Steering Committee input (Purdy)
15. Promote higher profile role by ATC in development of standards for imaging to assess RT
  - Propose that the ATC put together a collaborative working group (CWG) whose deliverable would be a "white paper" that took the approach of the NCI IRAT initiative, but focused on radiation oncology protocols, i.e., on what is needed to make quantitative imaging one of the key structural components of an RT clinical trial.
16. Have an increased number of high quality ATC Posters/Presentations at 2008 Meetings
17. Continue to promote requests to ATC for secondary analysis using volumetric treatment planning data archived at ITC.