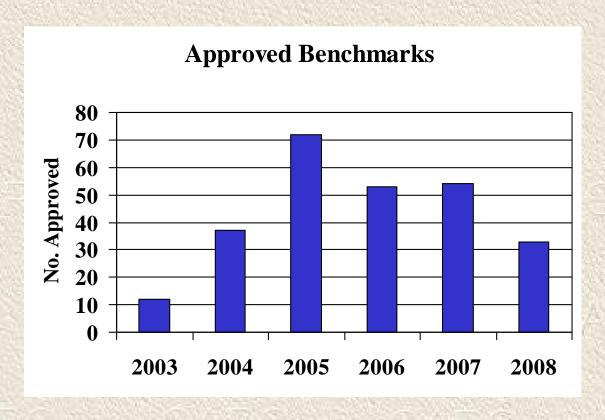




QARC ATC Report 3 October 2008

IMRT Benchmark

- •126 QARC Benchmarks approved (9/29/08)
- •145 approved with RPC phantom + Questionnaire
- •170 approved RPC phantom without questionnaire



3D Conformal Benchmark Submission/Approval Summary

- •93 approved, 4 approved by RPC
- •81 submitted electronically
- •Problems: brainstem contour, digital data issues, high dose outside PTV
- •All submissions to be shared with RPC for use in RPC site visits

3D CSI and Mantle Benchmarks

	CSI	Mantle
Approved	12	11
Electronic	10	11

Protons and NCI

Revised and expanded proton questionnaire developed (M.Urie, J. Deye, and M. Gillin)

Completed proton therapy questionnaires received and approved from

MDA

MGH

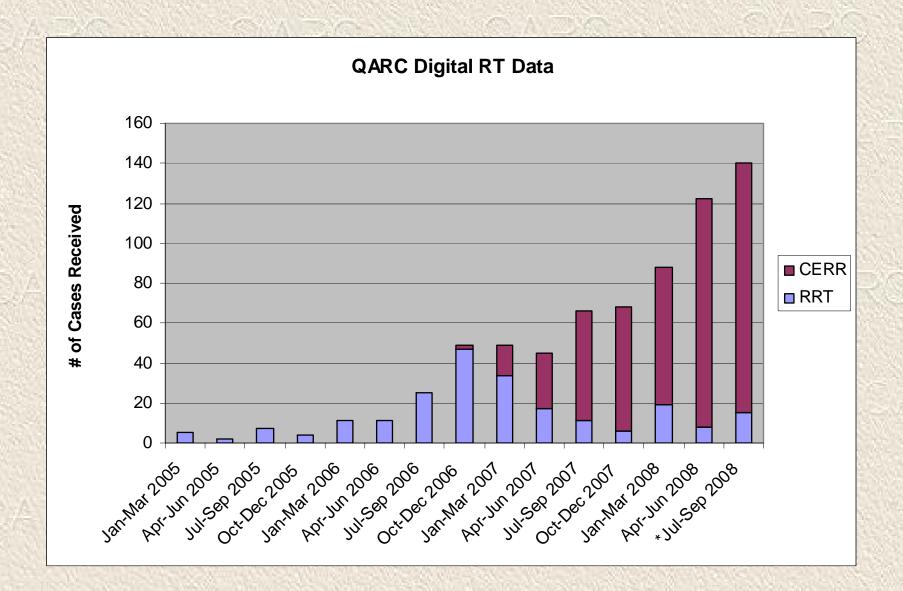
LLUMC

UFL

Digital RT Data Current Accrual (9/29/08)

Protocol	Number of Cases
ACNS0121	47
ACNS0126	-6
ACNS0331	50
ACOSOG Z4032	31
CALGB 80101	26
miscellaneous studies	532

Total of 692 cases from more than 190 institutions and more than 50 studies



Use of CERR at QARC

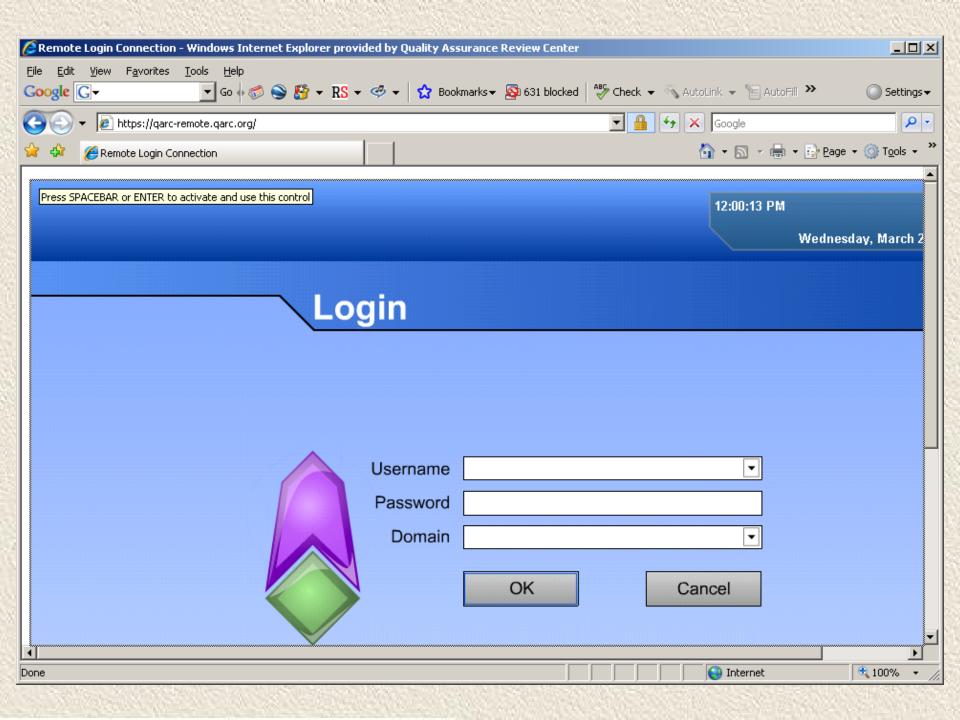
- •470 protocol cases and 170 benchmark cases have been imported into CERR.
- •Studies from 13 planning systems have been successfully imported into CERR.
- •QARC staff are able to access CERR remotely by connecting to a terminal server through a web browser (network concurrent license is required for Matlab).

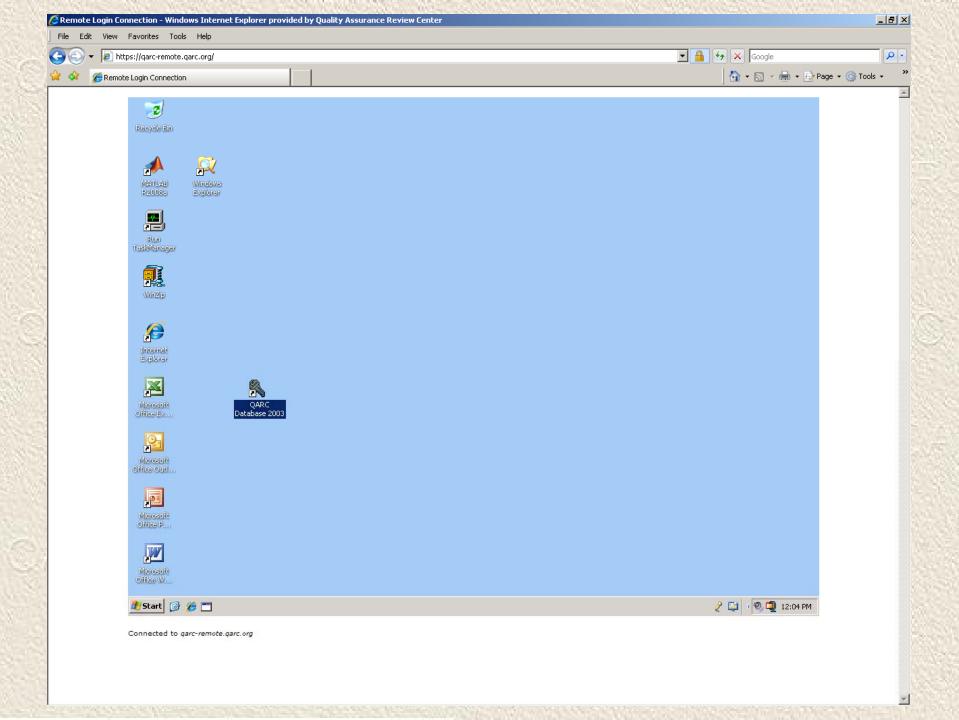
Use of CERR at QARC

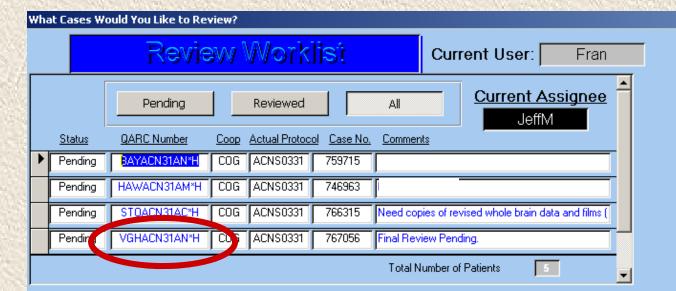
Full data sets from 13 planning systems have been successfully imported into CERR		
DICOM RT	RTOG	
Eclipse	Pinnacle	
Variseed	XiO	
Plato	Theraplan Plus	
XiO	Corvus	
Oncentra Masterplan	UMPlan	
Helax		
IsoGray		
Konrad		
Memorial Planning System		

QARC Remote Review

- Secure Log-in via a VPN
- Remote Reviewer is authenticated
- Remote Reviewer is granted access via their Internet Browser to a QARC terminal server
- Remote Reviewer logs into MAX and is recognized as a Study Reviewer
- The MAX Database optimizes the interface for that Reviewer. They are presented with a list of their cases for review
- Remote Reviewers can access the Diagnostic Imaging and digital RT data viewed in CERR. They can also see any other e-materials (for example, scanned diagnostic imaging reports)
- Currently in use for QARC staff
- Currently being piloted with Remote Reviewers



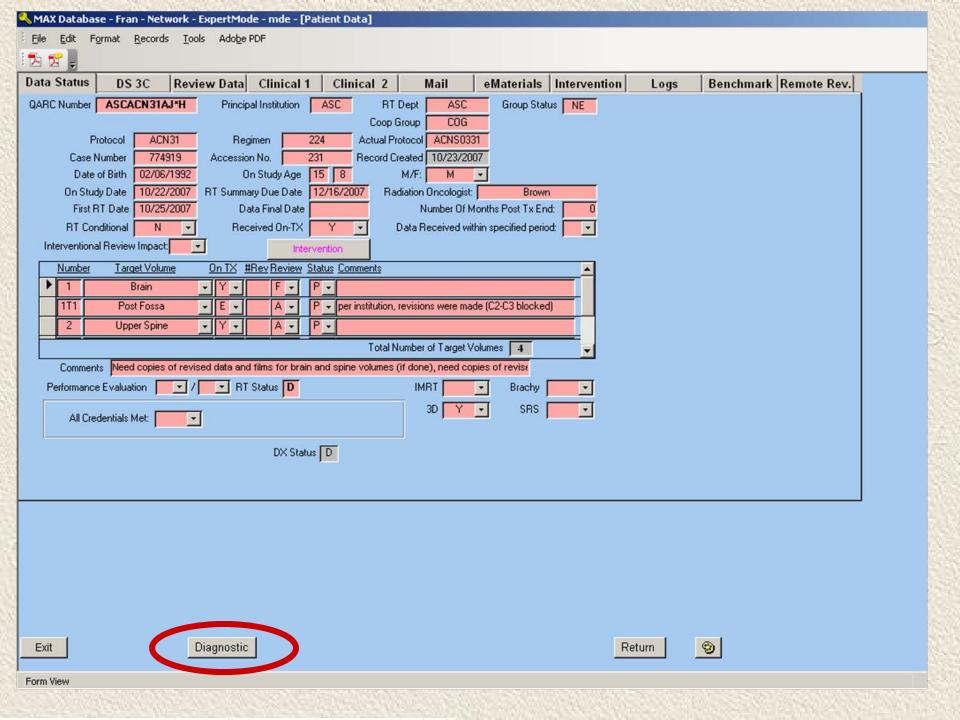


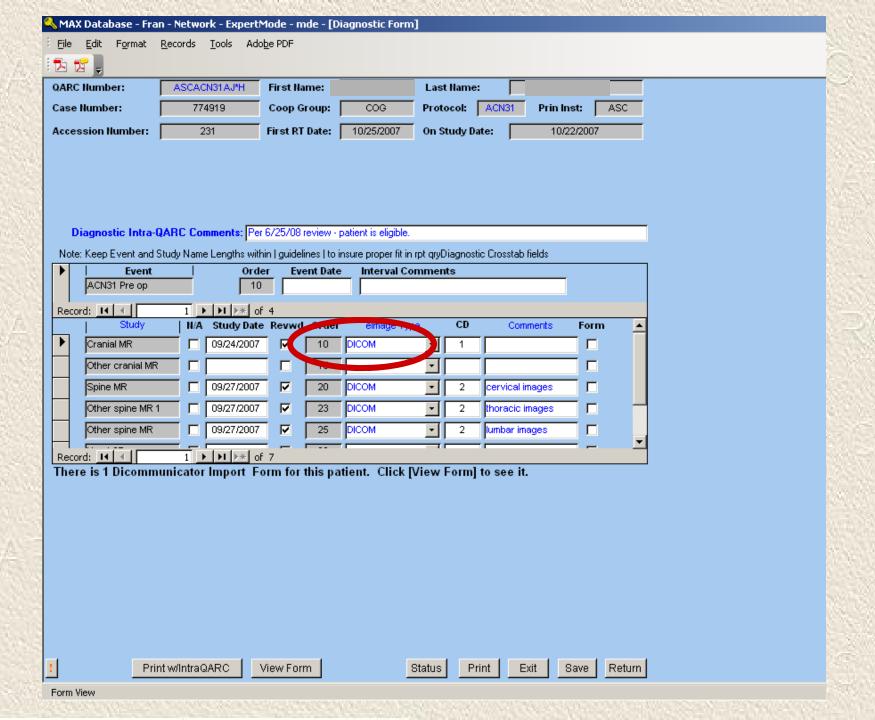


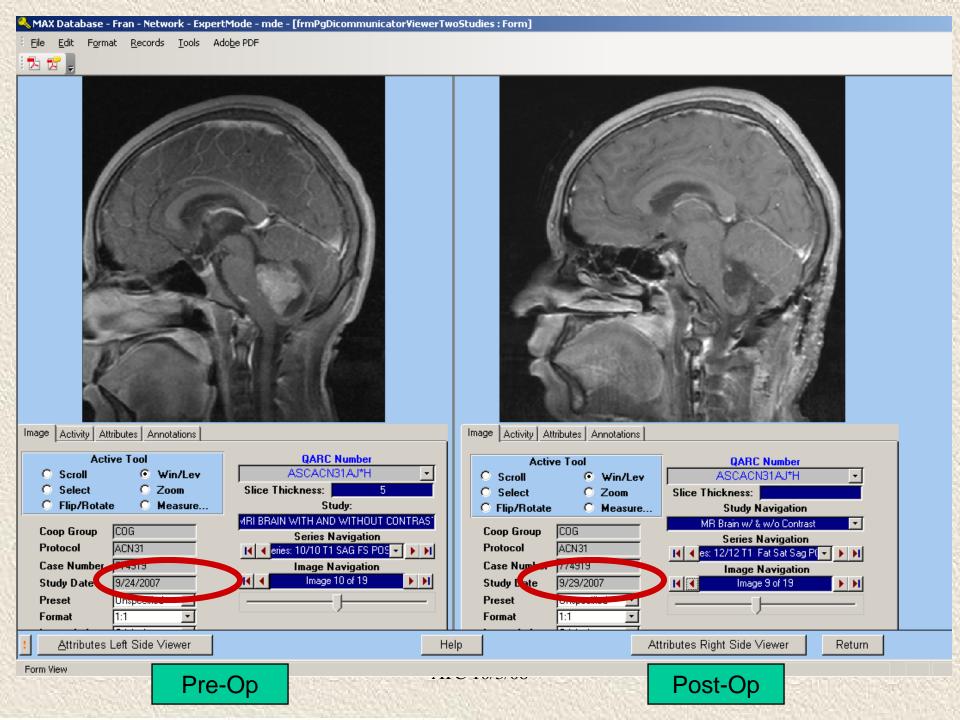
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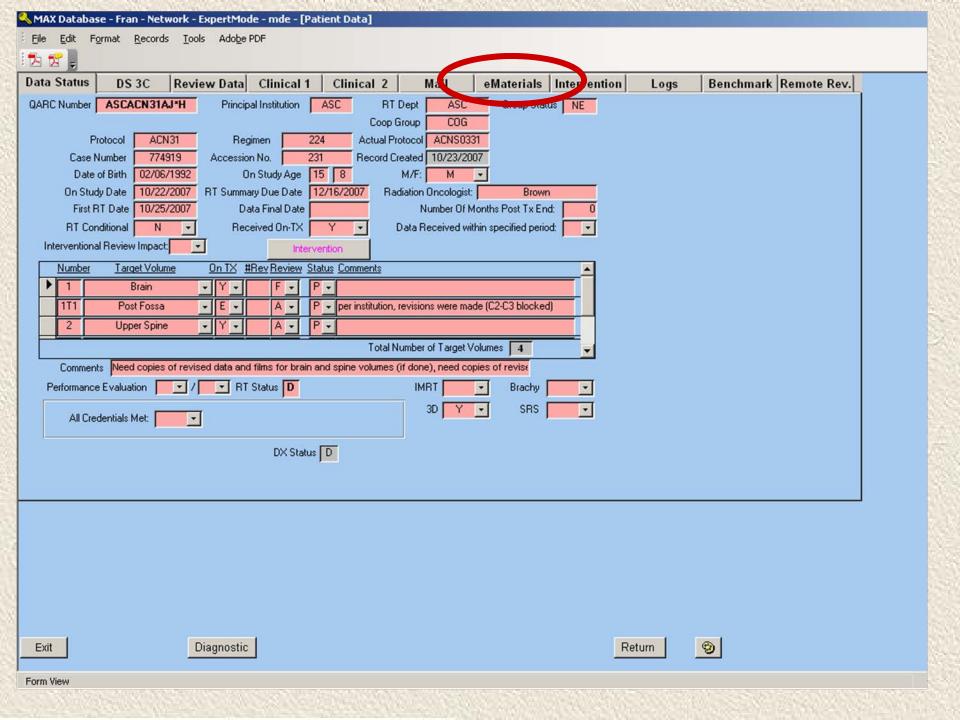
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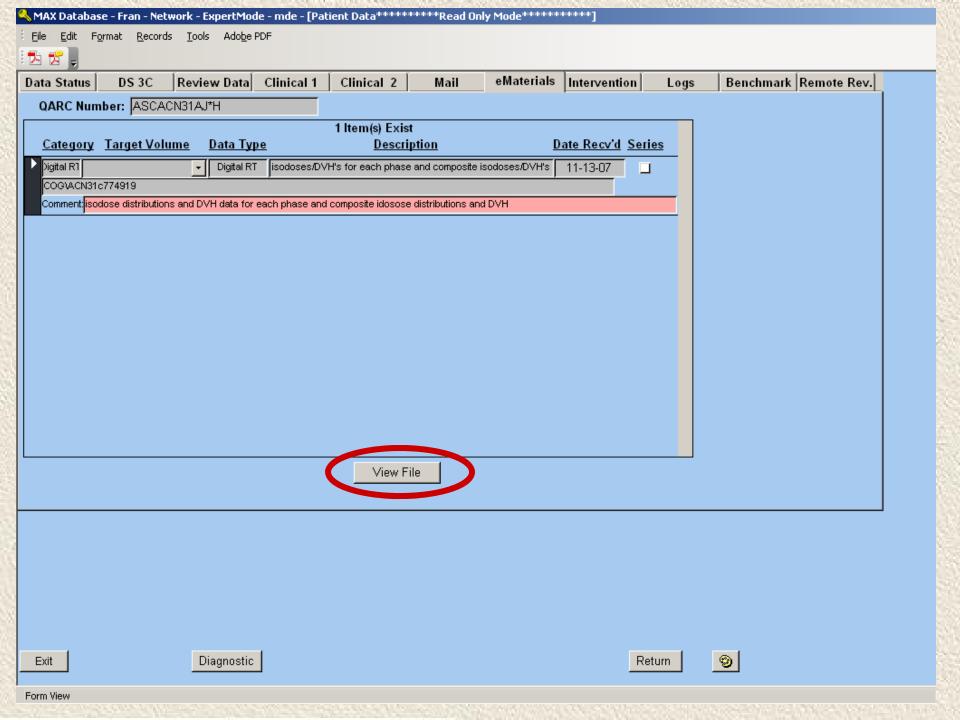














Year 10 Plans - Credentialing

- Web-based facility information form that is common for all the QA groups to include key personnel and contact information that the sites themselves could keep updated
- Development of IGRT guidelines, forms, and credentialing that will be accepted by all groups and QA centers for participation in protocols requiring, or allowing, IGRT
- Continue collaboration with RPC on proton credentialing

Year 10 Plans - Digital Data/Remote Review

- Anticipate increased volume of digital data
- Validation of CERR
- Develop/implement web-based review

Year 10 Plans – Other Initiatives

- VIEW
- caBIG

VIEW Update

- VIEW Meeting in Chicago, June 2008
- IT, Quality and Standards Sub-committees met to establish committee membership and objectives
- First VIEW protocol, NCCTG N0723 Marvel Trial opening October 1st. A Phase III Second-Line Therapy in Patients With Advanced Non-Small Cell Lung Cancer (NSCLC) Randomized to Pemetrexed Versus Erlotinib
- QARC will track and acquire baseline and follow-up imaging;
 ACRIN will perform QA. Duplicate archive established at QARC and ACRIN

VIEW Aims

- Develop a standardized approach to credentialing facilities that perform imaging exams according to the VIEW standards.
- Assist clinical trial organizations in the development of an imaging charter that is acceptable to the trial sponsors and FDA.
- Advance the science of imaging biomarker development: explore alternative imaging analysis, alternative imaging approaches, and establish databases that can be mined for testing new approaches.