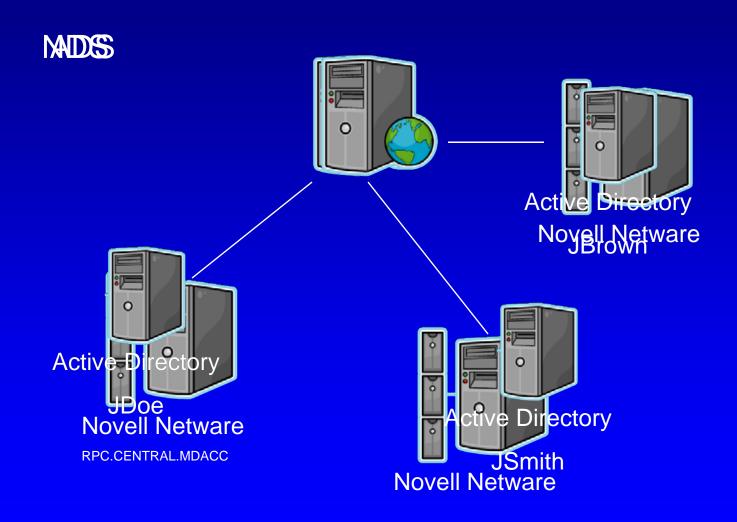
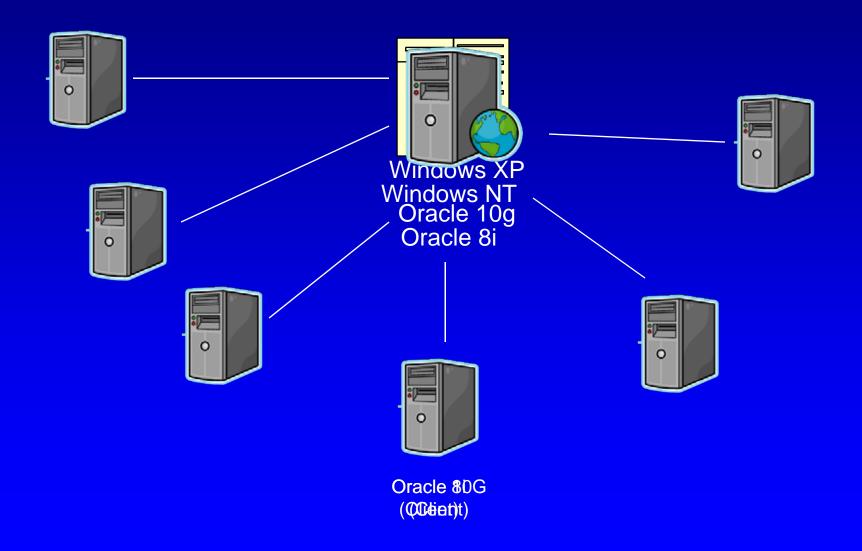
### Informatics at the RPC

Jessica Lowenstein, M.S.

## **Servers Migration**



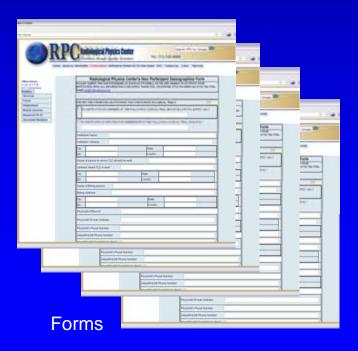
## **Servers Migration (cont.)**

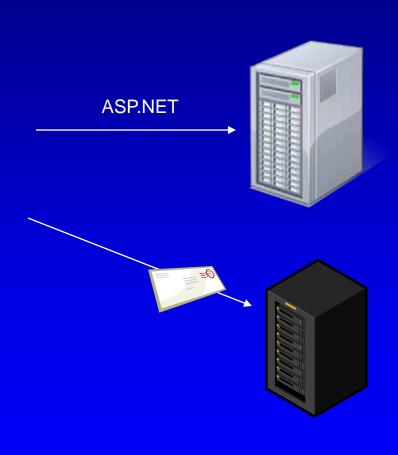


## **Web Forms**



#### Questionnaires





### Website

- Institutional Participation
- Credentialing requirements
- Demographics Form
- Request Phantoms
- International Interaction

Institution:	om Request Form
RTF No:	
	RTF Number?
Physicist: Fi	
	ast name:
Phone number:	
Email:	
Address1:	
Address2:	
City:	
State/Province	
Zip Code	
Country	
Country	
Phantom requested (please check one):	
SRS head ©	,
IMRTH&N C	
IMRT prostate of	
IMRT/3DCRT thorax ©	)
SBRT thorax ©	)
SBRT liver ©	
Method to account for respiratory motion(if application)	able):

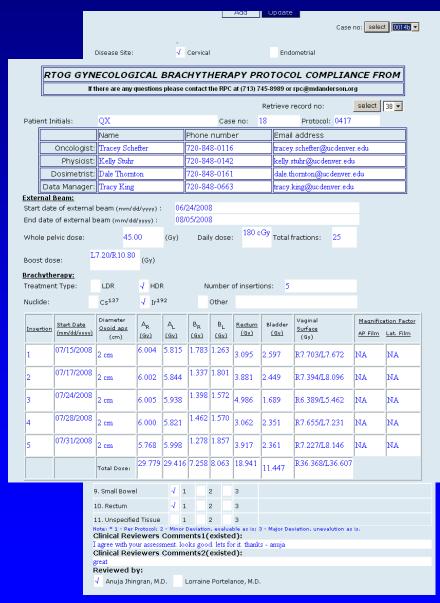
## Credentialing

- On-line forms and questionnaires
  - Credentialing Status Inquiry
  - Knowledge Assessments
  - Facility Questionnaires

	Page 1 of
NSABP/RTOG PBI PROTOCOL FACILITY QUESTIONNAIRE	
Please fill out all that applies to your institution. If there are any questions please contact the RPC at (713) 745-8989 or rpc@mdanderson.org  Ouotes are not allowed.	
I. Radiation Oncology Facility:	
Facility Name:	
Address:	
Street1:	
Street2:	
City: ZIP Code:	
Country:	
Check the appropriate box and provide the Facility's member number:  ☐ RTOG#: ☐ NSABP#: ☐	
Fill in the Facility's identification: NCI#: RTF#:1	oking <u>here</u>
Is this Facility also known by other name(s)? If so, please provide	
II. PERSONNEL CONTACT INFORMATION:	

## Rapid Reviews & Patient Calcs

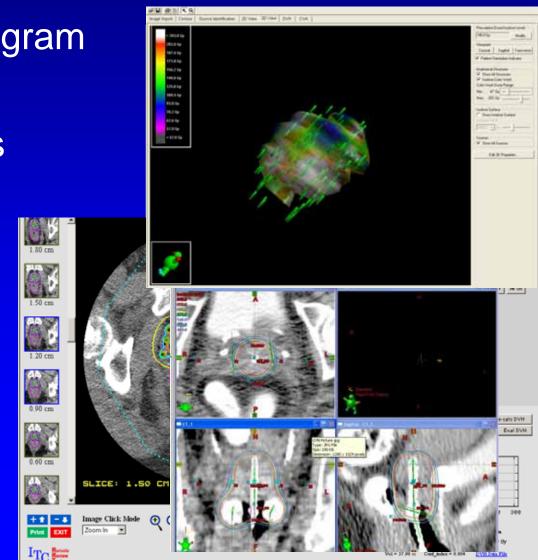
- Rapid Reviews
  - Remote Reviews
  - HDR & LDR Calcs
- Patient Calculations
  - DICOM CT data via
     RPC FTP site



## **Re-Calculate Dosimetry**

#### Homegrown Brachy Program

- RadComp
- Remote Review Tools
- PC Calc
- **Commercial Treatment**
- Planning System
- Variseed
- Brachyvision



### **Phantom Evaluations**

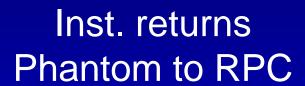
Inst. submits treatment plan to ITC



ITC verifies data received is correct



ITC converts data to CERR format





Dose Calculation based on TLD system

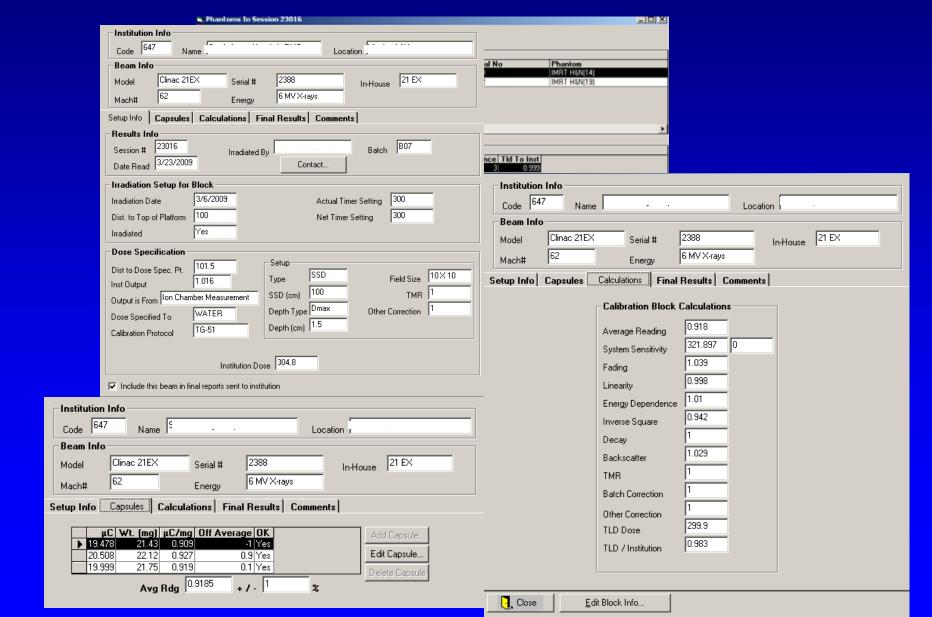


Film Evaluation

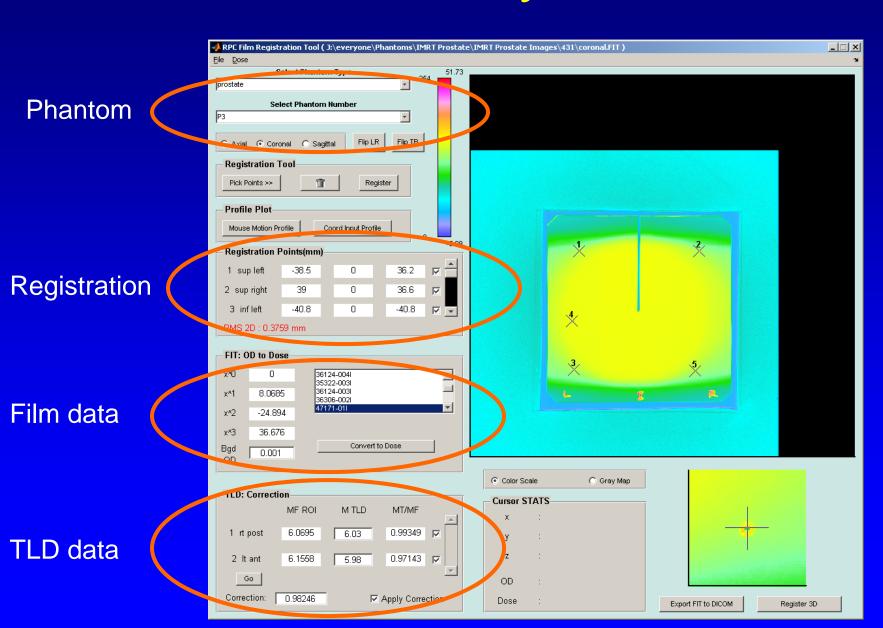


**Dose Distribution Analysis** 

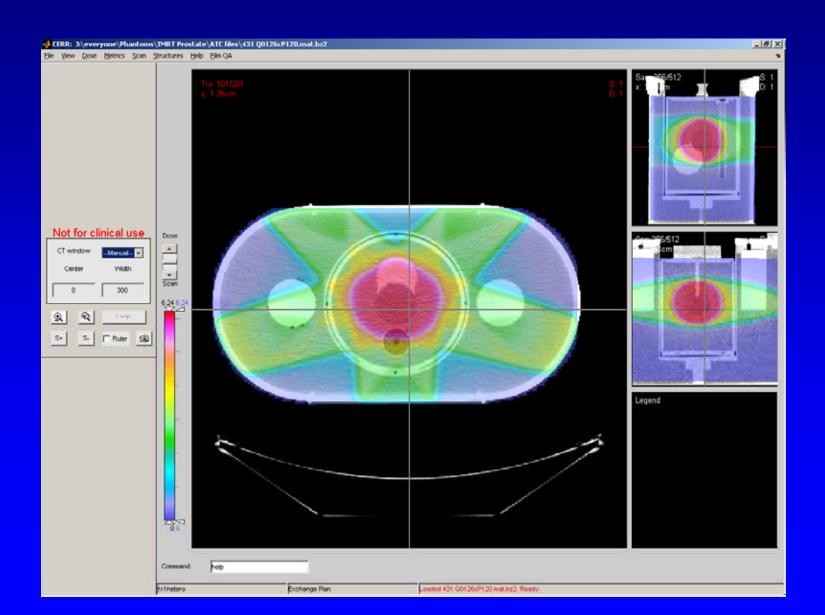
### TLD



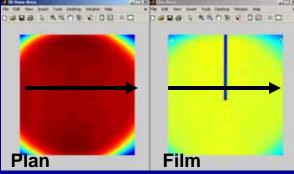
## Film analysis

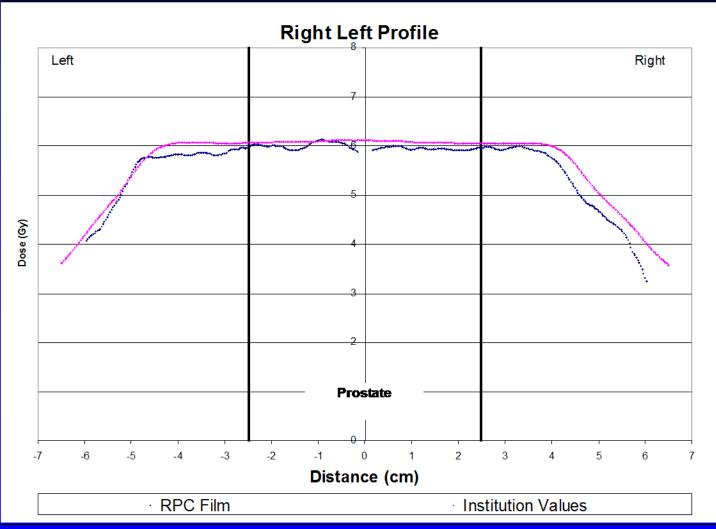


## Dose distribution - CERR

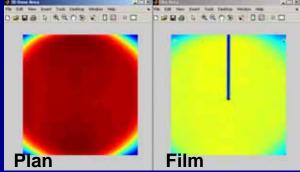


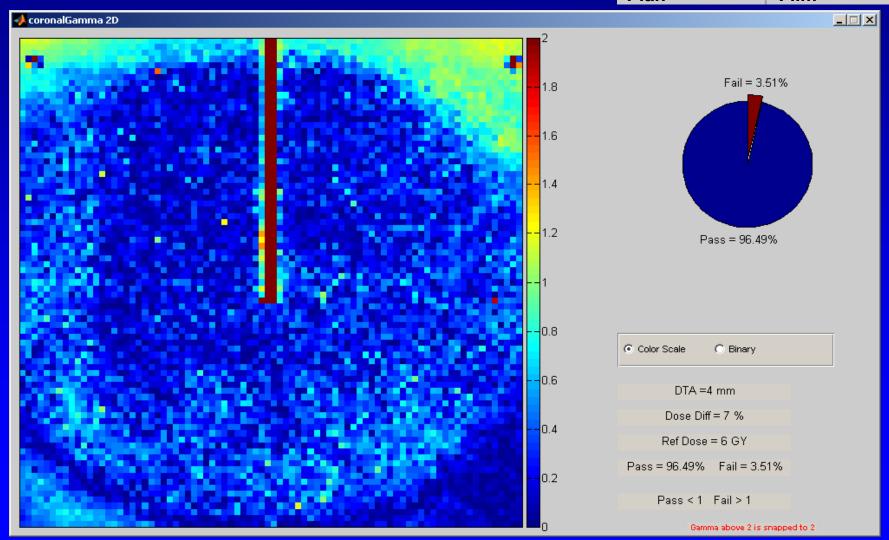
# 1D analysis





# 2D - analysis





### **Future Direction**

- Increased international participation and communication
- Enhanced electronic data transfer capability
- Recruitment of GOG to initiate electronic submission of patient data
- Retrospective analysis of trial outcomes using MC calc tool for lung studies