

StrokeNet Study

Neuroimaging Processing

Overview

Yuko Y. Palesch, PhD
NDMC co-PI

StrokeNet Meeting
February 9, 2015
Nashville, TN

When is this applicable?

- ❖ If the trial involves central imaging review.
- ❖ However, even if no central review is needed, the PPI may wish to consider imaging acquired in the trial to be stored in centrally at LONI.

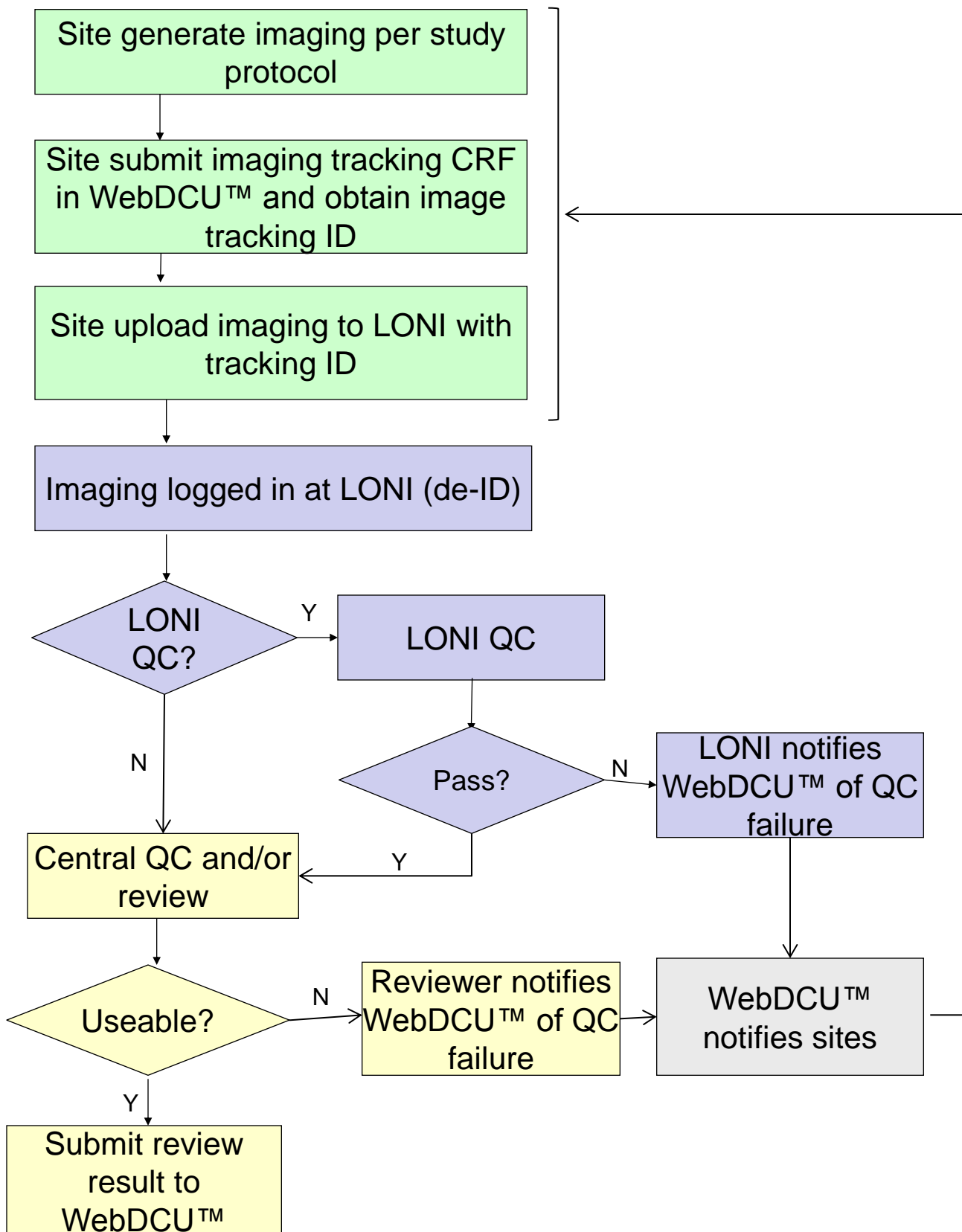
What is LONI?

- ❖ Laboratory of Neuro Imaging (LONI) is housed in University of Southern California (<http://www.loni.usc.edu/>).
- ❖ LONI is the central repository for all imaging acquired as a part of StrokeNet trial protocol.
- ❖ Using LONI is required for all StrokeNet trials involving central review of neuroimaging because it is intricately tied to WebDCU™ that houses the clinical data.

Process

- ❖ If the trial involves central imaging review, PPI should take the following steps BEFORE drafting the budget:
 1. contact NDMC and NCC to discuss implications on the overall study budget;
 2. also contact the StrokeNet Neuroimaging Core (led by Max Wintermark) to be advised on how imaging is handled in StrokeNet and to understand cost implications of imaging choices;
 3. contact Arthur Toga at LONI to discuss LONI costs;
 4. select one or more neuroimaging expert(s) to be the central reviewer; or consult with the StrokeNet Neuroimaging Core to identify the neuroimaging expert(s);
 5. negotiate with the central reviewer(s) for their compensation.
- ❖ **Costs for LONI and central reviewer(s) are to be included in the PPI's overall grant budget.**

Neuroimaging Processing Flowchart



LONI Charges

	LONI Charge*
New study initiation fee	\$1,200
Repository fee: per scan study/session	\$35
Automated QC per scan segment	\$25
Semi-automated QC per scan with 1 assessor	\$75
Semi-automated QC per scan with 2 assessors	\$125

* No additional cost (e.g., no F&A) associated with LONI charges.

Example 1: N=1000; 1 CT session (CT+CTA) per subj

	Cost per unit	# units	Total
New study initiation fee	\$1,200	1	\$1,200
Repository fee	\$35	1,000	\$35,000
Automated QC (optional)	\$25	2,000	\$50,000
Total for the study			\$86,200

Example 2: N=1000; 1 MRI session(DWI+PWI+gd-en+MRA) per subj

	Cost per unit	# units	Total cost
New study initiation fee	\$1,200	1	\$1,200
Repository fee	\$35	1,000	\$35,000
Automated QC (optional)	\$25	4,000	\$100,000
Total for the study			\$136,200

Central Neuroimaging Reviewer Charges

❖ Example charges:

Example 1: N=1000; baseline NCT+CTA and 24-hr NCT

	Cost*
baseline NCT	\$39,000
baseline CTA	\$64,000
24-hr NCT	\$39,000
Total direct	\$142,000
Direct+IDC**	\$234,000

Example 2: N=1000; Example 1 plus collateral score and infarct volume

	Cost*
baseline NCT	\$39,000
processing fee	\$27,000
baseline CTA	\$64,000
processing fee	\$27,000
24-hr NCT	\$39,000
processing fee	\$27,000
Total direct	\$223,000
Direct+IDC**	\$367,000

* Takes into account Medicare reimbursement.

** Assumes ~64% IDC rate.

- ❖ For a N=1,000 study, if the grant period is 5 years, dividing the total costs for LONI and central reviewers by 5 yields ~\$64,000 per year for the simple review case (Example 1) and ~\$91,000 per year for the additional measurements case (Example 2).