



MESA COPD Meeting

MRI RC Report

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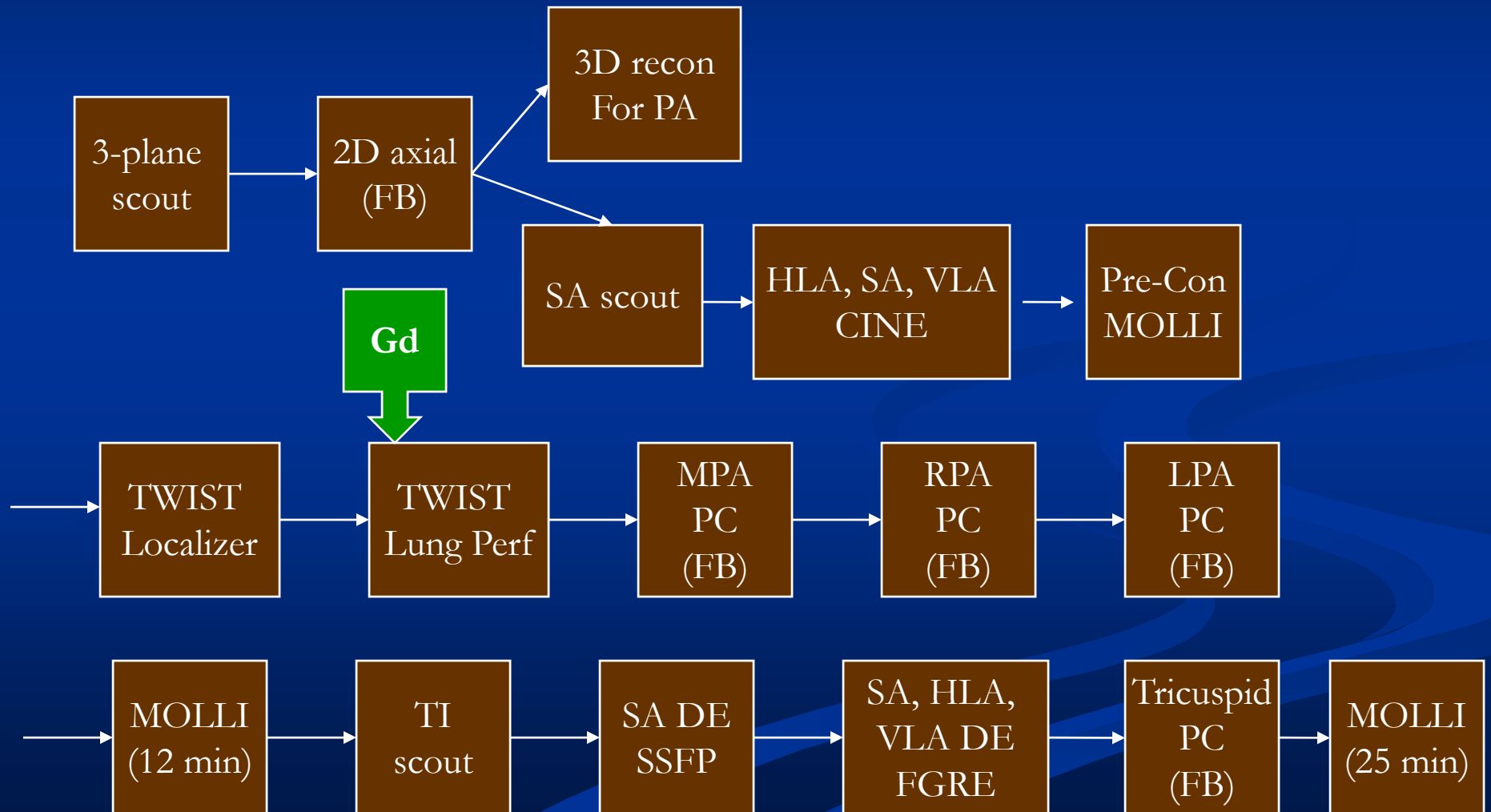


Operations Update

- 122 MESA COPD MRI studies received through 02/24/11
 - 105 (86.0%) results have been sent to the CC
 - 8 study results pending RC getting complete study
 - 3 alerts issued to date
 - Columbia = 1
 - Northwestern = 1
 - Johns Hopkins = 1

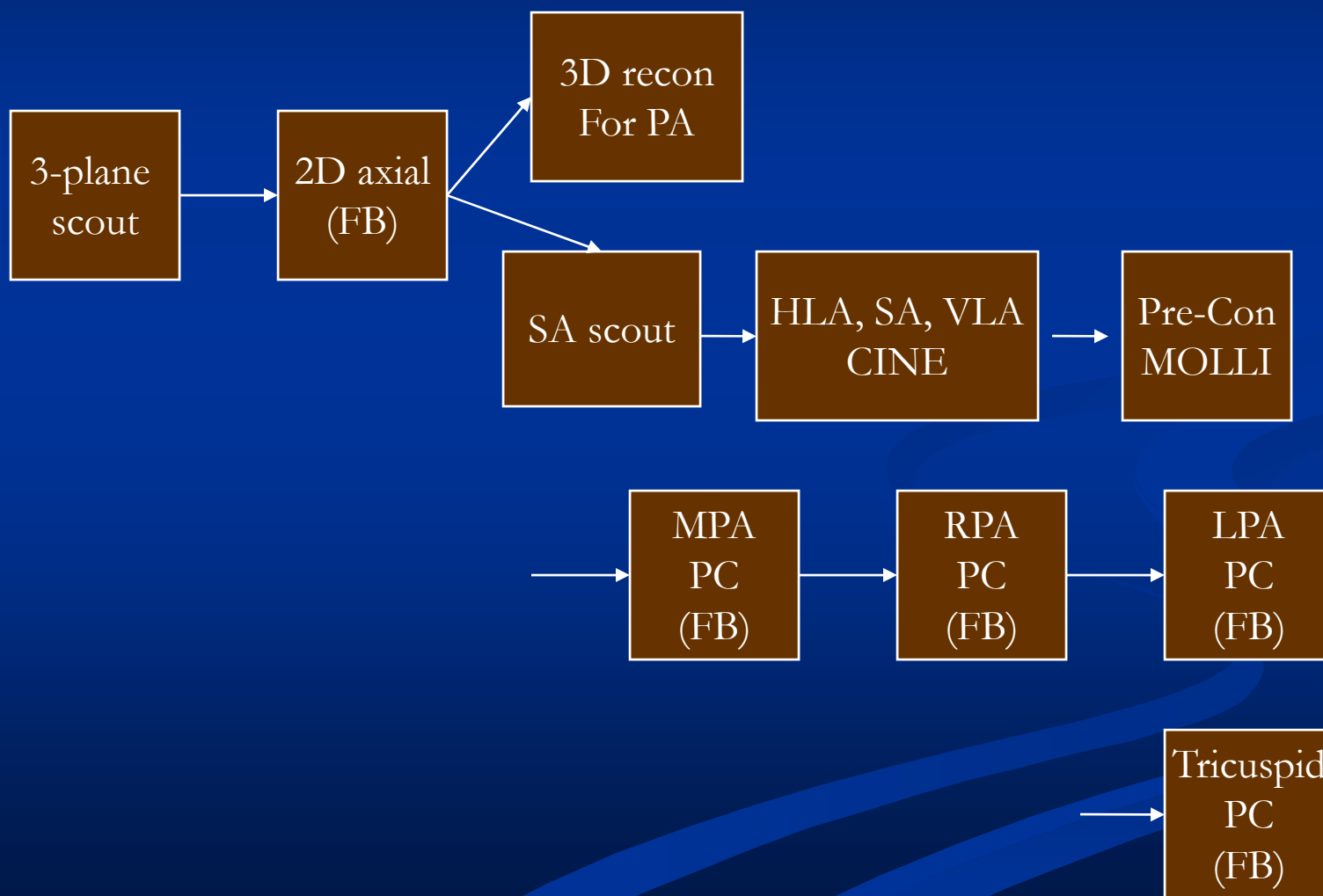
MESA COPD Protocol

Flow-chart Gd



MESA COPD Protocol

Flow-chart No Gd



Quality Control - Scoring System

0=missing; 1=non-diagnostic; 2=acceptable; 3=good

Sample QC Form

Series	Score	Comments
CINE		
Pulmonary artery phase contrast		
Delayed enhancement		

Quality Control - Scoring System

- 1=non-diagnostic: Severe imaging artifacts, wrong imaging position or not enough images to analyze
- 2=acceptable: artifacts, but not severe, protocol deviation but image quality is still good
- 3=good: None of above
- Study will **not be accepted** if cardiac function (based on SSFP CINE) cannot be assessed.

Image Quality and Protocol Adherence

Site #	Site	# Scans	CINE mean quality score	SD
4	Columbia	34	2.63	0.6
5	Johns Hopkins	38	2.92	0.3
7	Northwestern	23	2.83	0.4
8	UCLA	27	2.82	0.4
Overall		122	2.81	0.4

Image Quality and Protocol Adherence

Site #	Site	# Scans	Pulmonary artery phase contrast mean quality score	SD
4	Columbia	34	2.62	0.6
5	Johns Hopkins	38	2.92	0.3
7	Northwestern	23	2.94	0.2
8	UCLA	27	2.82	0.4
Overall		122	2.83	0.4

Image Quality and Protocol Adherence

Site #	Site	# Scans	Delayed enhancement mean quality score	SD
4	Columbia	34	2.78	0.4
5	Johns Hopkins	38	2.95	0.2
7	Northwestern	23	2.94	0.2
8	UCLA	27	2.81	0.5
Overall		122	2.89	0.4

Image Quality and Protocol Adherence

Site #	Site	# Scans	Number not accepted	Percent not accepted
4	Columbia	34	3	8.8%
5	Johns Hopkins	38	1	2.6%
7	Northwestern	23	0	0.0%
8	UCLA	27	0	0.0%
Overall		122	4	3.3%

Next steps...

- Add MRI scan times by site to report
- Add overall QC scores by site to report (rather than parameter specific)
- Add all info for EMCAP studies (QC, results, etc)
- Add info on reading other things like scar, RV, perfusion, etc.
- Add table on certification status
- Add in reasons why studies are not accepted