# SEA-XNAT Boarding Document – answer key

- 1. Anticipated data collection start and end dates. Start August 2012, 5 year grant
- 2. How many subjects will participate in the study? Around 200
- 3. Is this a multi-site study?



No

If so, please list the sites that will be collecting data.

Site Name	PI
University at Large	Gordon Investigator
Oceanic University at Atlantis (OUA)	Lucille Ostero
University College Valhalla (UCV)	Robert Loblaw
Gotham State University (GSU)	Barry Zuckerkorn

4. Please list XNAT project information. (If more lines needed, please continue on back.)

Project ID (<=14 chars)	Running title (<=24 chars)/ Title	Description	Alias	Keywords	Archive setting (circle one)
TEST_UL	UL TEST Study / This is a study of TEST here at the University at Large.	A longitudinal study of TEST here at University at Large to test things.	NP101	TEST longitudinal Large	archive no overwrite archive overwrite
BOGUS_OUA	OUA BOGUS Study/BOGUS Study at Oceanic University, Atlantis	The Oceanic University, Atlantis site data for the Big Open Group Unified Study.	7048	SUPEREGO psychoneurobabble Oceanic Atlantis	prearchive archive no overwrite archive overwrite
BOGUS_UCV	UCV Bogus Study/BOGUS Study at University College Valhalla	The University College Valhalla site data for the Big Open Group Unified Study.	7055	SUPEREGO psychoneurobabble Valhalla	prearchive archive no overwrite archive overwrite
BOGUS_GSU	GSU BOGUS Study/BOGUS Study at Gotham State University	The Gotham State University site data for the Big Open Group Unified Study.	6318	SUPEREGO psychoneurobabble Gotham	prearchive archive no overwrite archive overwrite

- 5. User access plan
  - a. Can the study provide a list of people on your study for initial boarding? Yes No

Advise to please specify: user\_id/name and role (Collaborator:view-only Member:view, create, edit, execute pipelines Owner: view, create, edit, delete, execute pipelines, add pipelines to project, grant user access, configure project)

In our scenario, the coordinators have not been granted access to the data by the other institutions' IRBs. This implies that we're probably going to want one project per institution in XNAT to control access to each institution's data individually.

- b. Is there anyone outside the study who will be given access to the data? Yes, outside researchers will be given access to all sites' data.
- c. How will user access be enabled/disabled throughout the life of the study?
  - i. Itudy will designate its own project owners who will enable/disable users directly. (preferred)

Note: As the support team, we would encourage them to self-administer their own project to reduce our helpdesk load.

- ii. Users contact SEA-XNAT help desk directly -> study must contact to validate new user requests.
- iii. Other, please describe:
- 6. What modalities of imaging data will you be collecting (1.5T MR, PET-AV45, CT, EEG, etc)?

### 3T MR and PET-FDG

7. Would you like to set up a pipeline to verify the acquisition protocol (i.e. count and correctness) of received images (image validation)? Yes No

If yes, which modalities require validation? (If all, just write "all"). Just MR

Note: A team member will be assigned to follow up with PI and flesh out a validation schematron.

8. Does the study perform QC on imaging?



No

Will the study store QC results in the SEA-XNAT? Yes No

Note: There already exists a qcmanualassessor data type in XNAT. We would encourage the group to record their results using this data type.

Will the study store or discard sessions which fail QC. Store Discard

9. What kind of subject demographic data will be collected? Please check all that apply. Add items not listed in spaces provided.

Subject data	
Gender	х
Handedness	x
Education	x
Height (inches)	
Weight (lbs)	
Race	x
Ethnicity	x
Circle one:	х
Date of birth	
Vear of birth	
Age	
Blood type	x

10. Please list all other data types to be collected. (Note: Request sample data from PI. Developer will follow up with the study PI for planning. XNAT Marketplace is an online repository where common data types could be available for download.)

Name	Description	Likely code source	Upload
		(circle one)	method
Pittsburgh Side	Commonly used test to assess side effects in	Core XNAT	HTML form
Effects Scale	drug treatment.	XNAT Marketplace	CSV uploader
		To be created	Script
NIH (National	Systematic assessment tool that provides a	Core XNAT	HTML form
Institute of Health)	quantitative measure of stroke-related	XNAT Marketplace	CSV uploader
Stroke Scale	neurologic deficit. Very often used tool. Coordinators will enter this data.	To be created	Script
EgoMaster	Tests for the presence and significance of ego	Core XNAT	HTML form
	indicators in subjects. Only used by the BOGUS	XNAT Marketplace	CSV uploader
	study. Online test, so results output into a spreadsheet	To be created	Script

### 11. Is this a longitudinal study (i.e. will the participant be assessed multiple times)? Yes



If yes, then if possible, please list "visit" or "encounter" types as well as data required at each.

Visit type	Frequency	Trigger?	Data types collected at visit
Example: On site	Once every 6	Age > 80	Subject demographics, MR Session, CT Session
visit	months		
Baseline visit	once	none	Subject demographics, MR Session, PET Session, NIH
			Stroke Scale, Egomaster
One year follow-	once	One year	MR Session, NIH Stroke Scale, Egomaster
up		annivers	
		ary of	
		baseline	
		visit	

Also, if yes, Please describe unique visit ID pattern: v00, v01

Example ID patterns:

Numbered: 001, 002, 003, 004

Descriptive: PRE, POST

Numbered+Descriptive: onsite\_001, remote\_001, onsite\_002, etc.

# 12. Please list planned subject and data labels for every data type listed above (including imaging and non-imaging data).

Data type	Label pattern	Example label	How will this label pattern be enforced?
Example: Subject	<pre><pre><pre><pre>opect_id&gt;001</pre></pre></pre></pre>	UL001	Process: coordinator will enter labels
Example: MR Session	<subject_label>_<visit_id>_mr</visit_id></subject_label>	UL001_PRE_mr	Project anonymization script
Subject	<site>nnn</site>	OUA001	Process: coordinator will enter labels
MR	<subject_label>_<visit_id>_mr</visit_id></subject_label>	OUA001_v00_mr	Project anonymization script
PET	<subject_label>_<visit_id>_pet</visit_id></subject_label>	OUA001_v00_pet	Project anonymization script
NIH Stroke Scale	<subject_label>_<visit_id>_nihss</visit_id></subject_label>	OUA001_v00_nihss	Process: coordinator will enter labels
EgoMaster	<subject_label>_<visit_id>_ego</visit_id></subject_label>	OUA001_v00_ego	Process, labels will be entered into spreadsheet for upload

## 13. Please list processing pipelines needed.

Name	Description	Input file or data type?	Available in SEA-XNAT?	If not already available, then what is the plan?
Example: FreeSurfer	FreeSurfer tool for reconstruction of the brain's cortical surface from structural MR data, and overlay of functional MI data onto reconstructed surface.	MR Session DICOM	Yes No	Will download FreeSurfer version 5.1 (free from Harvard). SEA-XNAT will make pipeline for FreeSurfer. SEA-XNAT will create new imageAssessor to hold FreeSurfer data results. Pipeline developer will follow up with project for details.
DICOM to NIFTI	Pipeline to create nifti files from dicom files. Files will be stored on file system under same directory as dicom and will be available for download through REST or GUI. Other processing tools take only nifti files as input.	MR Session DICOM	Yes No	SEA-XNAT will download a copy of the dcm2nii tool and create pipeline from it.
DICOM dump pipeline	For a DICOM imaging session, dump contents of one file to text. Store this file in the session directory to be available for download through REST or GUI. Looking for PHI.	MR Session DICOM	Yes No	SEA-XNAT will create this pipeline using available DICOM or Linux utilities.

## 14. Please list any notifications required.

Notification description	Frequency	Notification recipients
Example: Our team should receive a list of all CT sessions uploaded in the last 24 hours.	Nightly	someone@gmail.com
Alert MR or PET QC team that new imaging sessions have been uploaded	Nightly	<pre>qcpeople@xnat.org (vm use only)</pre>
Report to PIs of any new clinical assessments (NIH Stroke Scale, EgoMaster)	Every Sunday night	pipeople@xnat.org (vm use only)

15. Please list any reports required. (Example report for each report type should be supplied by study).

Report description	Frequency	Available to
Example: Quarterly report for	Quarterly	xnat_user_id
our sponsor		
Work list for QC people to allow them to see which MR sessions have not been QC'ed yet.	Always available	All QC users
"Data freeze report" (will provide sample)	Quarterly	All PIs
Visualization of NIH Stroke Scale data versus EgoMaster data (graphs, charts, scatter plot) – not sure which data points yet	Always Available	All PIs

16. If sample imaging data provided, please complete a row below for every scanner involved in your study.

#	Site	Station name (0008,1010)	Modality (please circle one) (0008,0060)	Scanner manufacturer (circle one) (0008,0070)	Image file type (circle one)	Upload method (circle one) – *DICOM send for OUA scanners only	Approx session size	DICOM headers found with PHI
1	OUA	MMIR-3T	5T-MP 3T-MR PET-FDG PET-PIB PET-AV45 CT	Siemen Philips GE	ECAT Siemens IMA	Upload Applet Zip Uploader  DICOM send	80 MB	(0010, 0010)
2	OUA	OUASCAN-3T	1.5T MR 3T MB PET-FDG PET-PIB PET-AV45 CT	Siemeno Philips GE	DICOM ECAT Siemens IMA	Upload Applet Zip Uploader  DICOM send*	Check vm after	None found
3	OUA	n/a not DICOM	1.5T MR 3T MR  OET-FDO PET-PIB  PET-AV45 CT	Siemen Philips GE	DICOM ECAT Siemens IMA	Upload Applet Zip Uploader DICOM send*	Check vm after	n/a
4	UCV	MRSCAN1- UCV	1.5T MR 3T MR PET-FDG PET-PIB PET-AV45 CT	Siemens Philips GE	ECAT Siemens IMA	Upload Applet Zip Uploader DICOM send*	Check vm after	None found
5	UCV	VPI-PETCT1	1.5T MR 3T MR PET-FD9 PET-PIB PET-AV45 CT	Siemens Philips GE	DICOM ECAT Siemens IMA	Upload Applet Zip Uploader DICOM send*	Check vm after	None found
6	GSU	SCS-3TMR	1.5T MR 3T MR PET-FDG PET-PIB PET-AV45 CT	Siemens Philips GE	DICOM ECAT Siemens IMA	Upload Applet Zip Uploader DICOM send*	Check vm after	None found

### **Notes:**

- 1. OUA collects PET in ECAT format, so no DICOM header samples supplied.
- 2. No PET scanner listed for GSU. GSU's PET scanner failed certification, so they are sending their participants to UCV for scanning. (Means that any anonymization or validation will be the same for these sites' PETs.)