NBIA 4.4 release announcement

Dear NBIA Users,

We're pleased to announce release of version 4.4 of the National Biomedical Imaging Archive (NBIA), available at http://imaging.nci.nih.gov. This release significantly improves end user functionality and back end administration as explained below.

Create and share custom lists of images

Create Shared List

Name your list:	PloS Research #34
Add a description (optional):	Study of RIDER Collection evaulation
Add a URL (optional):	http://blah.blah.com
Upload a CSV File of Series UIDs:	[Browse...] 0 %

Please upload a comma separated value file (.csv) containing series instance UIDs.

Warning: There may be a slight delay after selecting a file to upload.   [SUBMIT]

A logged-in user can now create a "Shared List" that forms a saved list of image series which can be easily shared with colleagues or published in journal articles for convenient access to the exact set of data used by the list creator. It can be created based on cases added to your Data Basket or by uploading a CSV spreadsheet of the series UIDs for the images. Other users can then retrieve your list for download by searching on the name that it was assigned.

Search Shared List

Shared List Name:	PloS GBM 234403-8

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Note: The search result will be added to the data basket. Please clear the basket if you only want to see data from the list.

The Shared list search and edit functions can be found in the Tools menu on the left hand menu bar:

TOOLS

Change Password

Create Shared List

Edit Shared List

Search Shared List

Improved Quality Control and Reporting

QC Tool ?

Search Controls

SEARCH CRITERIA

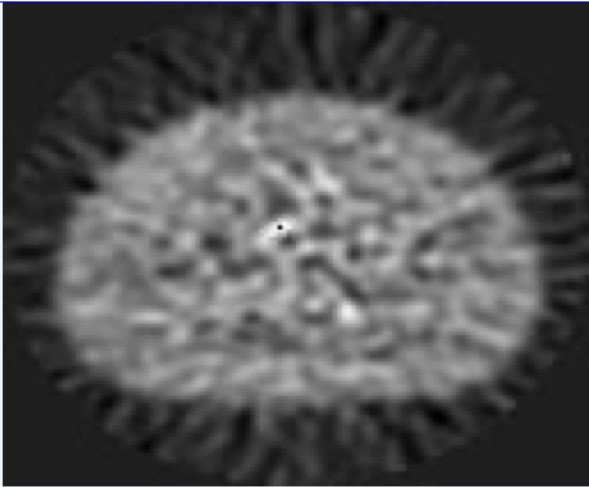| QC Status	Not Yet Reviewed ☑ Visible ☐ Not Visible ☐ To Be Deleted
Collection(s)	Phantom//WashU-IRL ▼
Patient ID	

[SUBMIT]

The QC Tool (Quality Control) has been a completely redesigned to improve performance and usability. It now includes ability to quickly scan image series via the Cine Tool as you perform QC as well as a new worklist-driven interface to improve productivity. An administrative deletion function has also been added to make much easier cleaning the system of image submission errors. This functionality is role-based, allowing initial deletion by QC analysts, but permitting an archive administrator to make final approvals to prevent accidental deletions.

Series Details

Collection//Site	Patient	Study	Series	QC Status
Phantom//WashU-IRL	SNMCB07	1.2.840.113619.2.55.3.1602280607.497.1169961245.676	1.2.840.113619.2.131.1602280607.1169973660.246410	Visible

Change QC Status

Iew Status

○ Not Yet Reviewed ○ Visible ○ Not Visible ○ To Be Deleted

Enter change log here...

Update/Next Series   Skip   Close Window

In addition to these quality control and image management features, Reporting functionality has been improved. Using the Submission Report tool administrators can easily tell when images arrived, which collection they belong to, and how many patients/studies/series/images were submitted. The Report has two separate views. The first is an Image-based view which allows drilling down through the identifiers of the images in order to troubleshoot submission problems. There is also an Accrual-based view which is geared toward easy reporting of submission statistics.

Submission Reports

Collection//Site	RIDER Neuro MRI//Duke ▾
Date (mm/dd/yyyy)	From: 01/02/2010 To: 04/02/2010

REPORT GENERATION

ACCRUAL	IMAGE	ANNOTATION

Accrual Results for RIDER Neuro MRI//Duke between 01/02/2010 and 04/02/2010 ❓

Warning: corrections done in releases prior to 4.3 will not be properly reflected in the counts. The number will always be zero.

Overall Counts

	New	Corrected
Images	3	0

	New	Updated	Corrected
Patients	1	0	0
Studies	0	3	0
Series	0	3	0

Counts by Day

Day	Details
02/25/2010	3 submission(s).

	New	Corrected
Images	3	0

	New	Updated	Corrected
Patients	1	0	0
Studies	0	3	0
Series	0	3	0

Better integration with collection metadata

	Available	
Collection(s) Collection Descriptions	☐ ❓ Biochange08 ☐ ❓ CT Colonography ☐ ❓ LIDC ☐ ❓ NCRI ☐ ❓ Phantom ☐ ❓ RIDER Lung CT	SELECT ALL REMOVE ALL

The Search interface now includes tool-tips next to each Collection name which can be clicked to view a short description of their scientific value. Within each tool-tip there is also the ability to add links to external resources, such as a wiki or publication site which has even more information and metadata relating to the images. The "Collection Descriptions" link on the left can also be configured to point to a site which has more detailed information. In the case of the CBIIT installation of NBIA it will direct users to a wiki which contains more information on all collections in this grid node The administrator is able to modify the description of the collection with a rich text editor implemented in NBIA.

Edit Collection Descriptions

Select Collection Name: [LIDC ▼]

Collection Name: LIDC

The **Lung Image Database Consortium (LIDC)** image collection consists of diagnostic and lung cancer screening thoracic CT scans with marked-up annotated lesions. It is a web-accessible international resource for development, training, and evaluation of computer-assisted diagnostic (CAD) methods for lung cancer detection and diagnosis.

For more information about the LIDC program please visit: http://imaging.cancer.gov/programsandresources/InformationSystems/LIDC

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The description for (LIDC) has been saved successfully.

Redesigned Federated Search

A redesigned Remote/Federated search interface has been implemented to automatically discover remote NBIA nodes. If multiple nodes of NBIA are discovered on caGRID it will display them so you can select which nodes to search. It also provides the searchable terms available in each node. Federated search is not available through Dynamic Search in this release.

Fixes to Dynamic Search

Some minor fixes were applied to the Dynamic Search functionality. Dynamic Search allows users to search all fields of the NBIA data model. This includes the ability to query 75 different DICOM tags.

Dynamic Search
All searches are conducted at the series level
Default equals "All"

CRITERIA SELECTED

Element	Operator	Value	Action
Collection Name	equals	LIDC	❌
Slice Location	>	2	❌

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Criteria

Group [--Please Select-- ▼]

[--Please Select-- ▼] [--Please Select-- ▼] [   ]

◉ AND ◯ OR

Results Per Page [10 ▼]

[SUBMIT] [RESET]

For more information:

Detailed release notes can be found on SVN.

For groups interested in installing NBIA 4.4 locally, the full installation package as well as an upgrade installer and associated documentation are available on SVN.

As always, support is available from Application Support.