

# 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:

Add a description (optional):

Add a URL (optional):

Upload a CSV File of Series UUIDs:

Browse...

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

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

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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 UUIDs for the images. Other users can then retrieve your list for download by searching on the name that it was assigned.

### Search Shared List

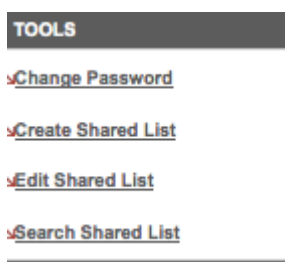
Shared List Name:

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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:



## Improved Quality Control and Reporting

### QC Tool

Search Controls

SEARCH CRITERIA

QC Status

☐ Not Yet Reviewed ☒ Visible ☐ Not Visible ☐ To Be Deleted

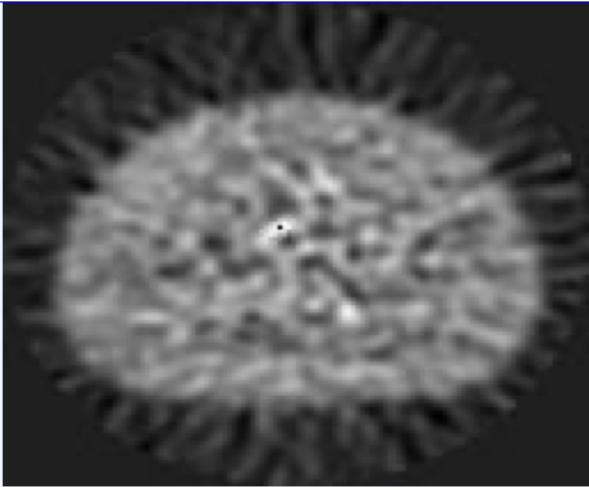
Collection(s)

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



◀ ◁ ▢ ▣ ▤ ▥ ▦ ▧ ▨ ▩ ▪ ▫ ▬ ▭ ▮ ▯ ▰ ▱ ▲ △ ▴ ▵ ▶ ▷ ▸ ▹ ► ▻ ▼ ▽ ▾ ▿ ▸ ▹ ► ▻ ▼ ▽ ▾ ▿

Warning: Especially on low-bandwidth connection, please ensure your browser is configured to cache data on SSL connections. Otherwise, the performance of the slide show can be poor. For example, to enable caching on Firefox, set browser.cache.disk\_cache\_ssl to true.

Click [here](#) to preload the entire slide show.

DICOM Tags for Image

Element	Name	Data
(0002,0001)	File Meta Information Version	00101
(0002,0002)	Media Storage SOP Class UID	1.2.840.10008.5.1.4.1.1.128
(0002,0003)	Media Storage SOP Instance UID	1.2.840.113619.2.131.1602280607.1169974108.378102
(0002,0010)	Transfer Syntax UID	1.2.840.10008.1.2.1
(0002,0012)	Implementation Class UID	1.2.40.0.13.1.1
(0002,0013)	Implementation Version Name	dcm4che-1.3.21
(0008,0005)	Specific Character Set	ISO_IR 100
(0008,0008)	Image Type	ORIGINAL/PRIMARY
(0008,0012)	Instance Creation Date	20070128
(0008,0013)	Instance Creation Time	004828
(0008,0014)	Instance Creator UID	1.2.840.113619.1.131
(0008,0016)	SOP Class UID	1.2.840.10008.5.1.4.1.1.128
(0008,0018)	SOP Instance UID	1.2.840.113619.2.131.1602280607.1169974108.378102
(0008,0020)	Study Date	20070127
(0008,0021)	Series Date	20070127
(0008,0022)	Acquisition Date	20070127
(0008,0023)	Content Date	20070128
(0008,0030)		

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

SEARCH CRITERIA			
Collection//Site	RIDER Neuro MRI//Duke		
Date (mm/dd/yyyy)	From: 01/02/2010	To: 04/02/2010	
REPORT GENERATION			
<div>ACCUAL</div> <div>IMAGE</div> <div>ANNOTATION</div>			

### 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

Collection(s)	Available	
<a href="#">Collection Descriptions</a>	<input type="checkbox"/> Biochange08 <input type="checkbox"/> CT Colonography <input type="checkbox"/> LIDC <input type="checkbox"/> NCRI <input type="checkbox"/> Phantom <input type="checkbox"/> RIDER Lung CT	<div>SELECT ALL</div> <div>REMOVE ALL</div>

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

**B** **I** **U**

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"

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](#).