



Image and Radiology Report Submission to TRIAD™

Version 2 – March 2025

Digital Image Submission via TRIAD™

- All imaging studies are to be submitted via TRIAD™ to the ACR Center for Research and Innovation (ACR CRI)
 - No image data will be accepted on media for ALZ-NET
- TRIAD™ (Transfer of Images and Data) is the ACR CRI's cloud-based image and data exchange platform that supports image and data archival as well as immediate transfer of data
- All imaging studies are required to be submitted using TRIAD™
- TRIAD™ can be installed on one or several computers of choice within the institutional 'firewall' and/or on an institutional network
- The application can be configured as a DICOM destination on either the scanner console or PACS system for direct network transfer

TRIAD™ Facts and System Requirements

- TRIAD™ meets FDA regulatory requirements for use in Clinical Trials and is Title 21 CFR Part 11 compliant
 - Sends images and data files securely
 - Anonymizes the DICOM headers locally before submission based on flexible and profile-based algorithm
 - A straight-forward software download is all that is needed to get started
 - Images are submitted with the click of a button
- TRIAD™ components are upgraded to newest .NET Framework version 4.8
- TRIAD™ end user access/log in is authenticated by Okta Single Sign On (SSO) for added security
 - TRIAD access will use the same login credentials as CTMS, the application to register patients for ALZ-NET.

Image Data to be Submitted

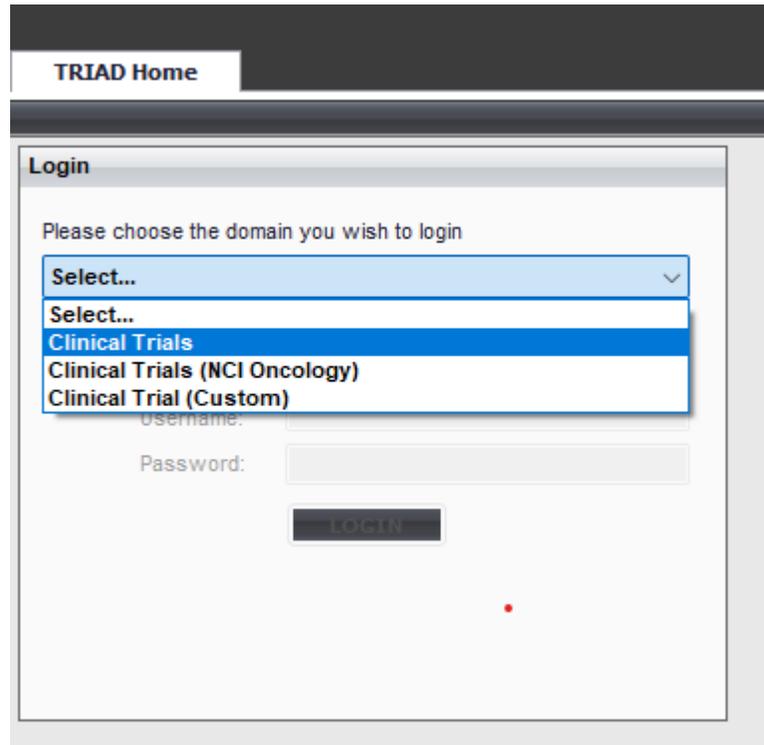
- The imaging studies collected for ALZ-NET are to be imaging exams that were performed as part of regular clinical care (i.e, Amyloid PET, Amyloid PET/CT, Amyloid PET/MR, Tau PET, Tau PET/CT, Tau PET/MR, and/or MRI Brain scans).
- All Patient Name and Patient ID DICOM tag fields are anonymized upon submission to TRIAD™
 - TRIAD™ replaces Patient Name and Patient ID fields with trial-specific ALZ-NET Case ID Number
 - No 3rd party or additional anonymization programs are recommended to be used as these systems can often times wipe valuable DICOM tags related to patient gender, date/year of birth or specific image-related details used during the Image Quality Assessment process
- Valuable scan data and details are contained in specific DICOM tag fields that are necessary for study identification as well as to confirm technical aspects of the scans

Image Data to be Submitted

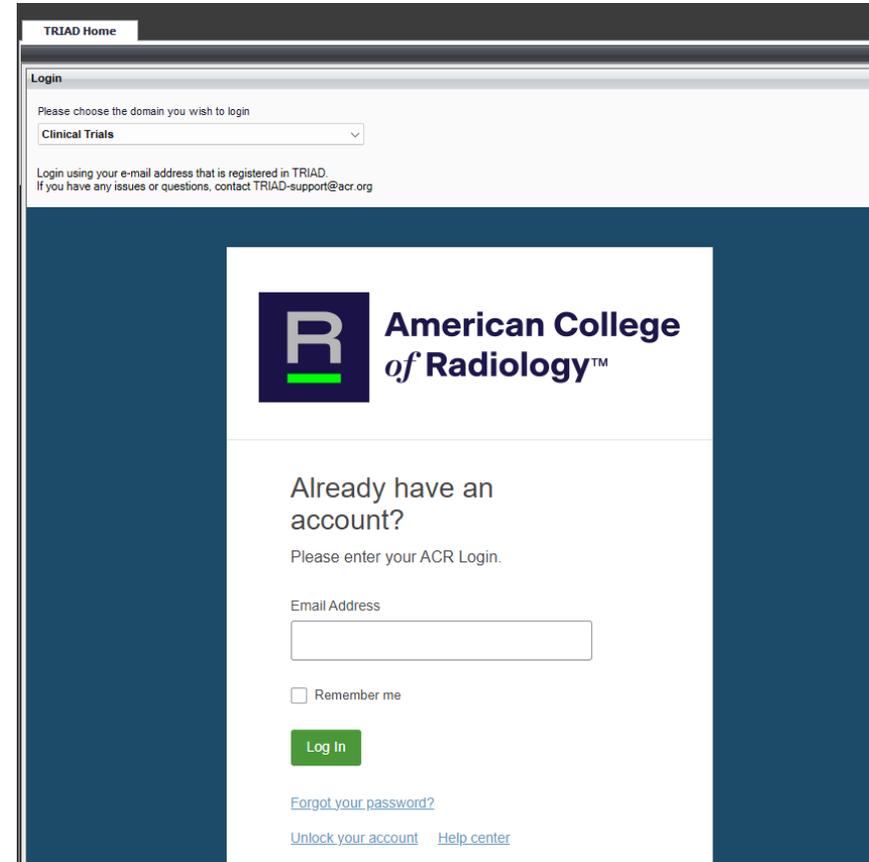
- Once a scan has been submitted to TRIAD, some of the details from the scan, contained in the following DICOM tag fields, are transferred to the study database:
 - **Participant DOB/Year of Birth** DICOM tag 0010, 0030 intact and present
 - **Study Date** DICOM tag 0008, 0020 intact and present
 - **Acquisition Date** DICOM tag 0008, 0022 intact and present
 - **Administered Activity** of radiotracer for PET, PET/CT and PET/MR scans DICOM tag 0018, 1074 intact and present
 - **Injection Time** of radiotracer for PET, PET/CT and PET/MR scans DICOM tag 0018, 1072 intact and present
 - **Acquisition Start Time** DICOM tag 0008, 0032 intact and present
- If any of these DICOM tag fields are missing on the images the transfer of scan details to the database will fail and a query will be issued as a result

Accessing TRIAD™ for Image Submission

- Select the 'Clinical Trials' domain of TRIAD
- Enter the registered User email address



The screenshot shows the 'TRIAD Home' login page. A dropdown menu is open, showing the following options: 'Select...', 'Select...', 'Clinical Trials' (highlighted in blue), 'Clinical Trials (NCI Oncology)', and 'Clinical Trial (Custom)'. Below the dropdown, there are fields for 'Username:' and 'Password:', and a 'LOGIN' button.

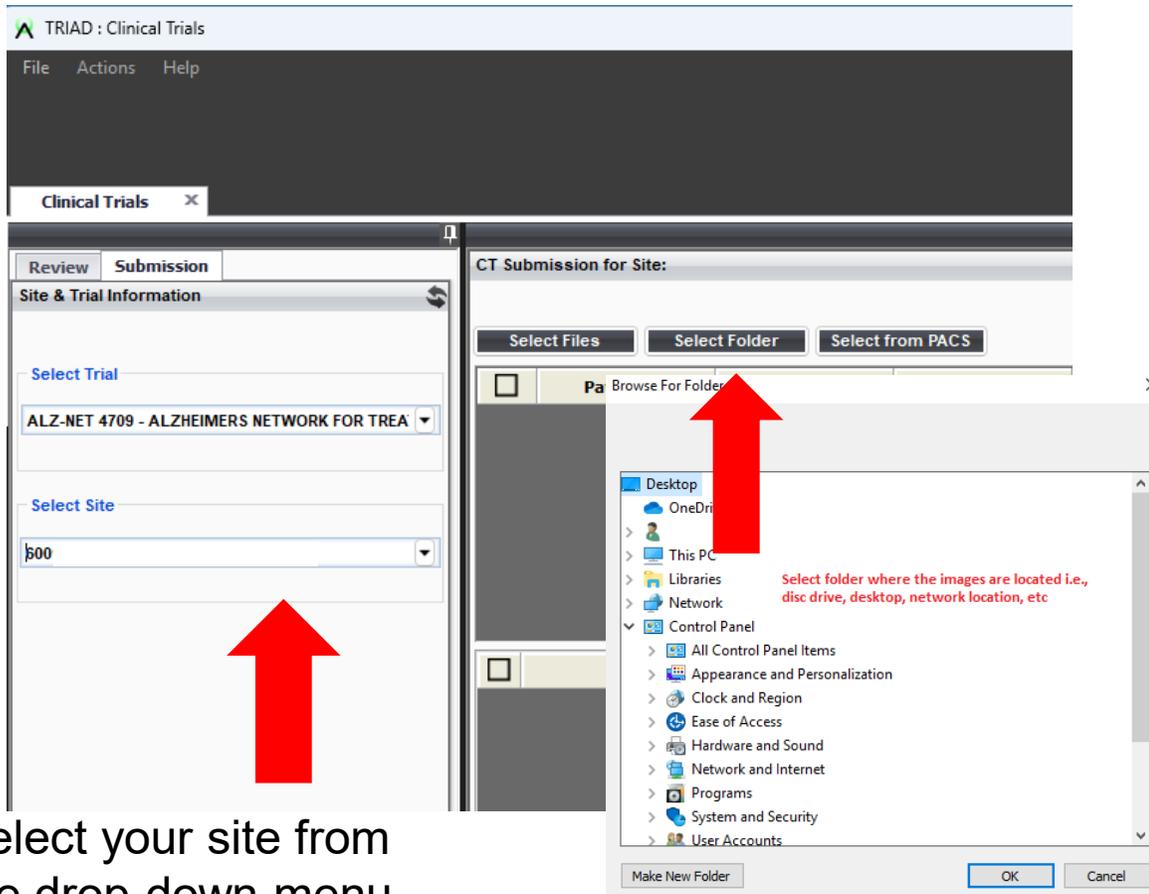


The screenshot shows the 'TRIAD Home' login page with the domain set to 'Clinical Trials'. The page includes the American College of Radiology logo and the text 'American College of Radiology™'. Below the logo, there is a section for 'Already have an account?' with the instruction 'Please enter your ACR Login.' and an 'Email Address' input field. There is also a 'Remember me' checkbox and a green 'Log In' button. At the bottom, there are links for 'Forgot your password?', 'Unlock your account', and 'Help center'.

This is the same login information for ACR Okta (used to login to ALZ-NET Portal)

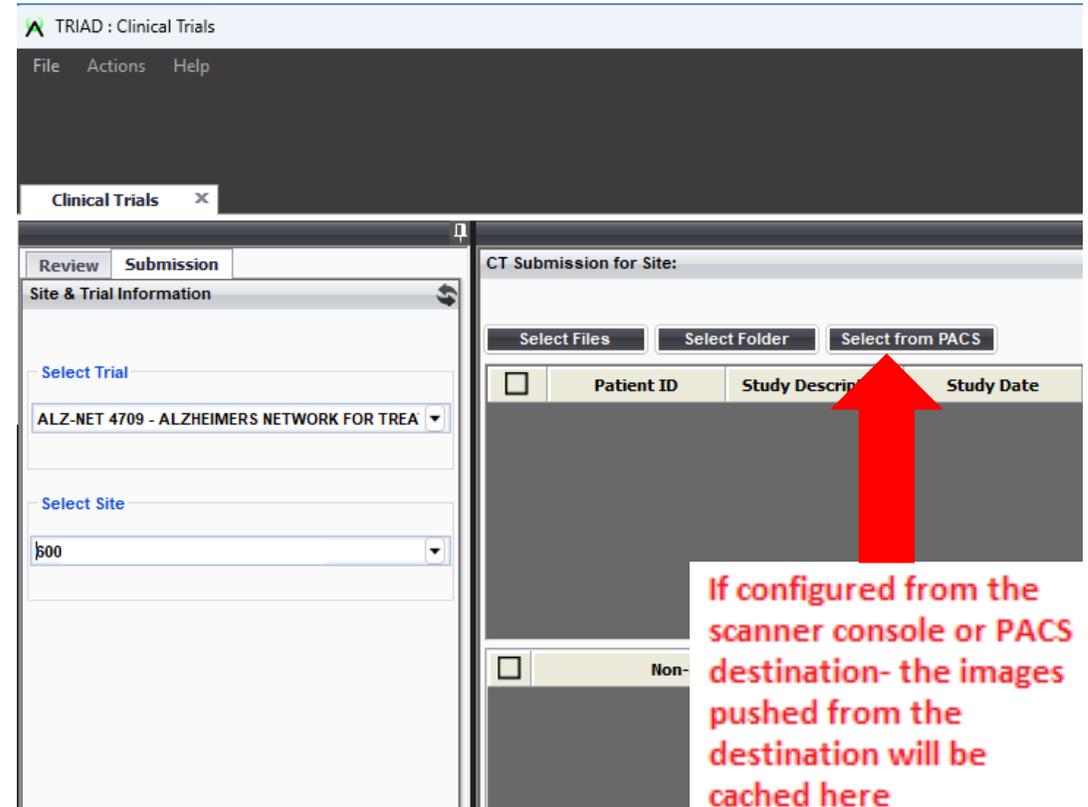
Selecting Image Data Files for Submission

- If intended image files to be submitted are on CD or an internal network location:



Select your site from the drop-down menu

- If image files are on the configured scanner console or internal PACS destination:



If configured from the scanner console or PACS destination- the images pushed from the destination will be cached here

Moving Image Data to the Submission Queue

- Images ready for submission will pre-populate and must be selected for the Image Submission queue:

The screenshot displays the 'Clinical Trials' interface. At the top, it shows 'Logged in as: rdigati@acr.org' and 'Logout'. Below this, 'DICOM Listener Status: Active' and 'Select DICOM Viewer: QC Viewer' are visible. The main area is titled 'CT Submission for Site:' and includes buttons for 'Select Files', 'Select Folder', 'Select from PACS', 'Delete', 'Move to Submission Queue', and 'Send To Device'. A red arrow points to the 'Move to Submission Queue' button. Below these buttons is a table with columns: Patient ID, Study Description, Study Date, Accession Number, Attachment, Images, and Comments. The table contains three rows of data, each with a checkmark in the 'Images' column. A red box highlights the 'Move to Submission Queue' button and the table. Below the table, a text box states: 'Image series that are selected, marked by a checkmark, will be moved to the Submission Queue'. At the bottom, there is a 'Submission Queue' section with buttons for 'Upload Selected' and 'Delete from Queue', and a table with columns: Subject ID, Timepoint ID, Timepoint Description, SubmissionType, Additional Parameter, Trial, Study Description, Study Date, Validation Result, Anonymize and Upload, and Cancel.

Series Descripti...	Series Number	Modality	Number Of Files	Images	Metadata	Clean Pixel Data	Attachm...	Comments
TEST CT WB	5	CT	263		View	Clean	Sel...	Comments
TEST PET AC WB	6	PT	263		View	Clean	Sel...	Comments
TEST PET NAC WB	7	PT	263		View	Clean	Sel...	Comments

Subject ID	Timepoint ID	Timepoint Description	SubmissionType	Additional Parameter	Trial	Study Description	Study Date	Validation Result	Anonymize and Upload	Cancel
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Moving Image Data to the Submission Queue

- Once the desired image series are selected, click 'Move to Submission Queue': 
- The scan now appears at the bottom of the screen and is ready to be assigned the correct New IDEAS Case ID number and submitted:

Submission Queue

<input type="checkbox"/>	Subject ID	Image Code	Image Type	SubmissionType	Additional Trial Input	FACILITY	PROTOCOL	Study Description	Study Date	Validation Result	Anonymize and Upload	Cancel
<input type="checkbox"/>			Optional	ClinicalTrial	N/A	Neurostudie...	ALZ-NET			View	<input type="button" value="Submit"/>	<input type="button" value="Cancel"/>

 A drop down of Case/Subject ID Numbers specific to your site will appear here in the 'Subject ID' tab

A drop down of Scan Submission Types will appear in the 'Image Code' tab

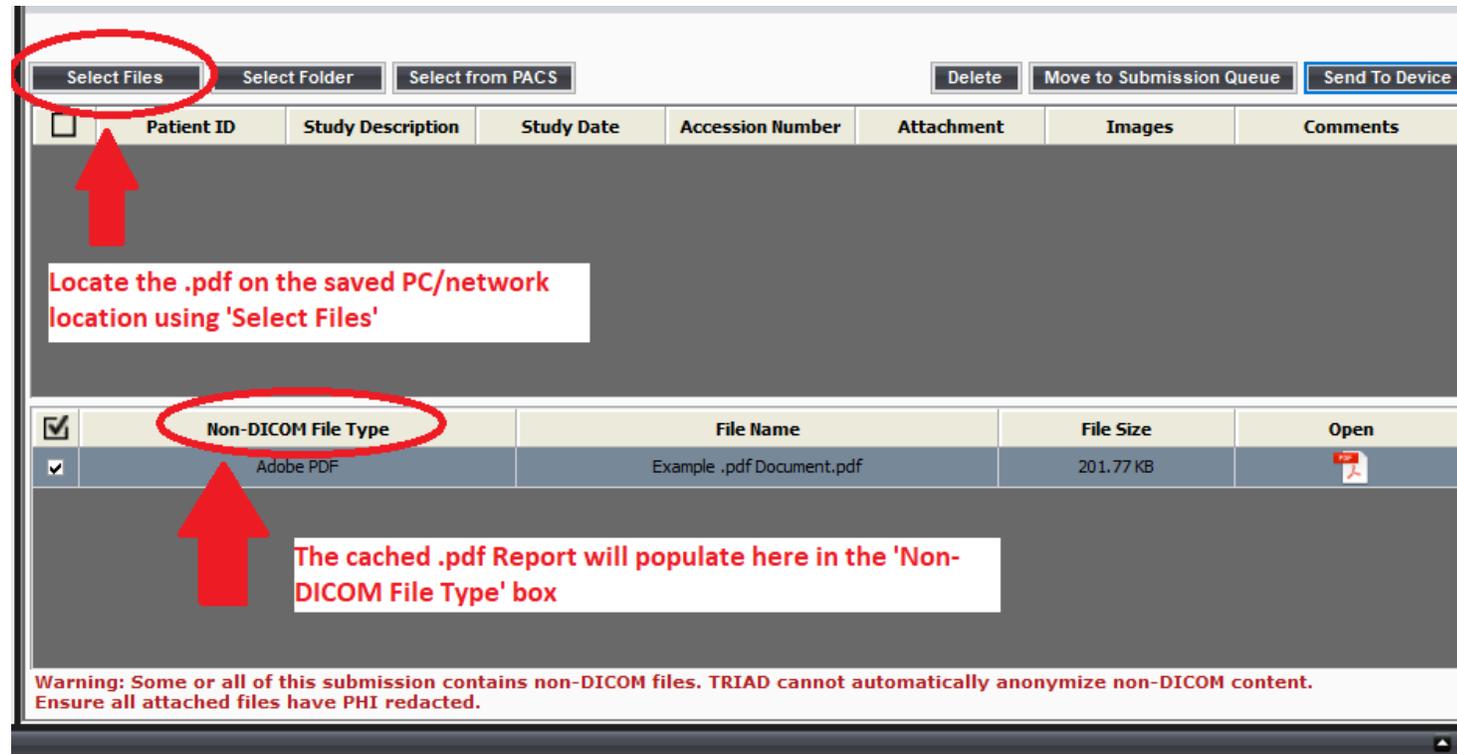
When a Case/Subject ID and Image Code are selected, the images may be submitted by clicking 'Submit': 

Radiology Report Submission

Redacted, .pdf-formatted* Radiology Reports are uploaded to TRIAD using the steps outlined in slide 6

The .pdf document(s) will populate in the 'Non-DICOM File Type' box:

****Please ensure that Radiology Reports are in pdf format ONLY****



Select Files Select Folder Select from PACS Delete Move to Submission Queue Send To Device

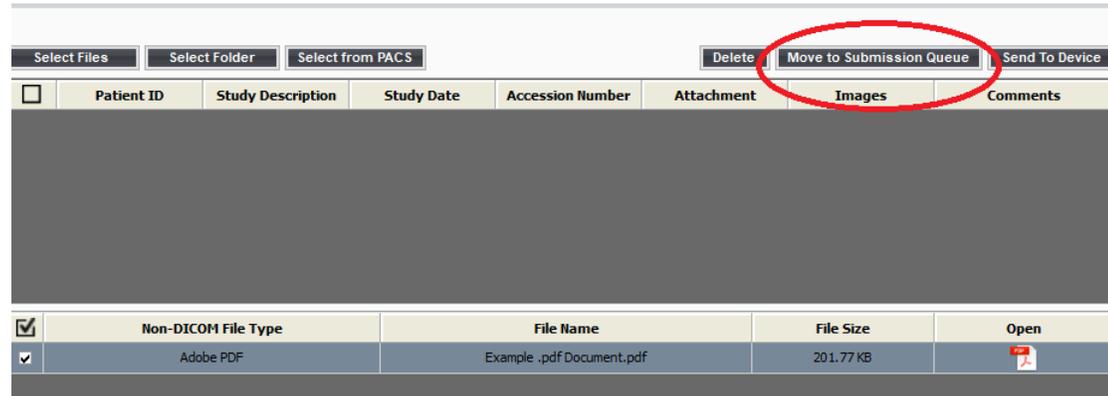
<input type="checkbox"/>	Patient ID	Study Description	Study Date	Accession Number	Attachment	Images	Comments
Locate the .pdf on the saved PC/network location using 'Select Files'							
<input checked="" type="checkbox"/>	Non-DICOM File Type			File Name	File Size	Open	
<input checked="" type="checkbox"/>	Adobe PDF			Example .pdf Document.pdf	201.77 KB		

The cached .pdf Report will populate here in the 'Non-DICOM File Type' box

Warning: Some or all of this submission contains non-DICOM files. TRIAD cannot automatically anonymize non-DICOM content. Ensure all attached files have PHI redacted.

Radiology Report Submission (continued)

Once the desired .pdf document(s) is displayed, select 'Move to Submission Queue':



Once in the Submission Queue:

A screenshot of the 'Submission Queue' interface. At the top, there are buttons for 'Upload Selected' and 'Delete from Queue'. Below is a table with columns: Subject ID, Image Code, Image Type, SubmissionType, Additional Trial Input, FACILITY, PROTOCOL, Study Description, Study Date, Validation Result, Anonymize and Upload, and Cancel. The 'Subject ID' and 'Image Code' columns are circled in red. The 'Anonymize and Upload' column has a 'Submit' button circled in red. Below the table, there are two red arrows pointing to the 'Subject ID' and 'Image Code' columns, with text explaining their function. The 'Submit' button is also pointed to by a red arrow.

Subject ID **Image Code**

Submit

A drop down of Case/Subject ID Numbers specific to your site will appear here in the 'Subject ID' tab

A drop down will also appear to select the type of submission in the 'Image Code' tab

When a Case/Subject ID Number and Image Code are selected, the .pdf document may be submitted by clicking 'Submit'

TRIAD™ Support

- Questions and inquiries related to the TRIAD™ Platform may be addressed to the TRIAD™ Support Team:

Triad-Support@acr.org
703.390.9858

- Tech Support is available from Monday to Friday between 8am - 5pm EST
- TRIAD™ User Guide is available:

<https://triadinstall.acr.org/triadclient/>

Upon Image Submission

- Once a scan has been submitted to TRIAD, some of the details related to the scan are transferred to the AlzNet database
- Submitted scans are archived at the ACR CRI and are expected to contain specific DICOM data intact and present for successful archival at ACR CRI

ALZ-NET Imaging Support

- Questions and inquiries related to the imaging expectations for ALZ-NET may be addressed to the ACR CRI Imaging Analytics Team:

Imaging Analytics Team

imaginganalytics@acr.org