QUICK USER GUIDE

OSIC Cloud DATA REPOSITORY

Powered by VIDA

v1.31.0 or latest

The World's Largest & Most Diverse Curated Database for ILDs

The Open Source Imaging Consortium (OSIC) – a global 501(c)(3), not-for-profit cooperative effort between academia, industry, and patient advocacy groups – was created to look at lung diseases differently, and to drive collaboration between unlikely partners. Its goal is to make rapid, open source advances in the detection and diagnosis of idiopathic pulmonary fibrosis (IPF) and other interstitial lung diseases (ILDs) through the use of digital imaging and machine learning.

To accomplish this goal, OSIC brought together the best and brightest radiologists, clinicians, computational scientists, and industry competitors from around the world to help make progress in ways that hadn't yet been considered. Together, they built the OSIC Cloud Data Repository, the largest and most diverse database of anonymized HRCT scans and accompanying clinical information regarding ILDs.

This first-of-its-kind, curated ILD database is organized, accurate and accessible for research. It is our belief that the *OSIC Cloud* could be the start of finding digital imaging biomarkers to potentially speed up diagnosis, and aid in better understanding of individual prognosis and response to therapy.

This Guide Covers

1 Cloud Access

2 Upload

3 Download

System Requirements

- **Browsers:** Latest and last previous version of Chrome, Safari, and Edge. We do not guarantee full compatibility with older versions or less common browsers. N*ote, we are unable to provide support for issues encountered with unsupported browsers or browser versions.*
- **RAM:** 8GB
- **OS:** Windows 10 (minimum)
- **Network Speed:** >2Mbps for best performance

Support Services

support@osicild.org

1 OSIC Cloud Data Repository Access

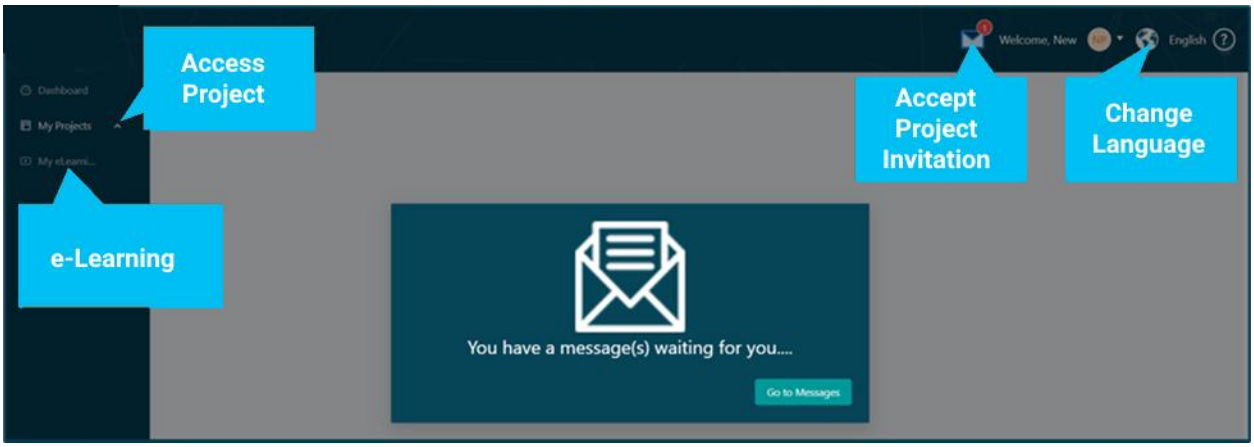
To access the *OSIC Cloud*:

OSIC Cloud Data Invitation

- You will receive a welcome email with a temporary password.
- Follow the link to https://www.osiccloud.org/.
- After login, follow the prompts to create a new password.
- You may be prompted to complete your profile.

OSIC Cloud Access

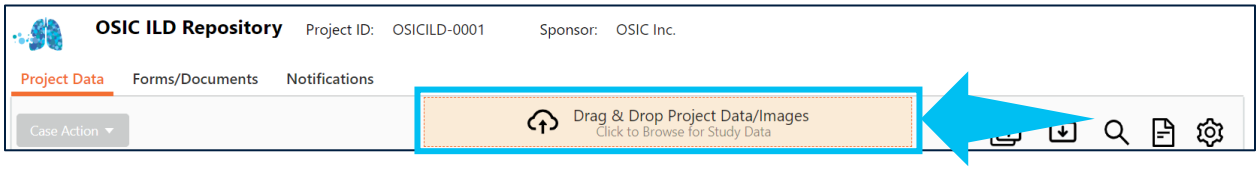
- You will receive an email to join the repository project.
- Follow the link to login to your account.
- View your messages by selecting the mail icon and accept the invitation.
- The Project will be available from the left navigation panel under “My Projects”.
  Note: The project invitation must be "accepted" before it appears in “My Projects”.



2 Data Upload

Standard Data Contribution

For users contributing data to the *OSIC Cloud*, data can be uploaded by 'Browsing' or 'Drag & Drop' of the imaging/DICOM data:

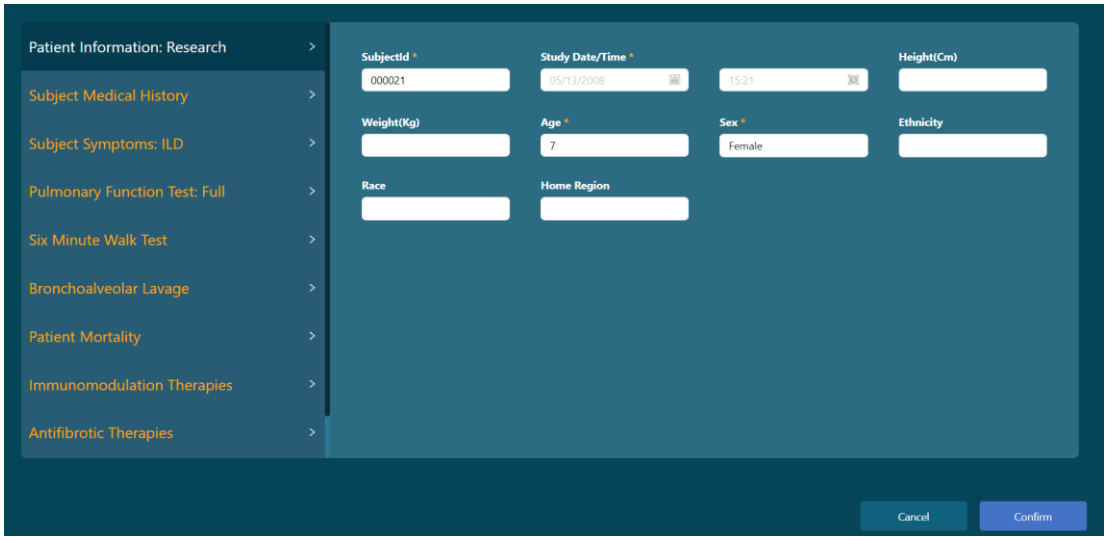


The following file extensions are supported in this area for upload:

.dcm	.dicom	.part	.zip	.sr	.ima	.7z	.rar

Patients will be automatically anonymized and provided with a unique subject ID. ***Prior anonymization or compression (.zip) of subject data is not required for upload but is accepted. All uploads, including zip files, should contain data for a single study. Multiple studies per upload will not be accepted (i.e., longitudinal studies should be uploaded individually).*** It is also recommended to upload TLC/RV scan pairs and/or reconstructions for a single timepoint/study in one upload.

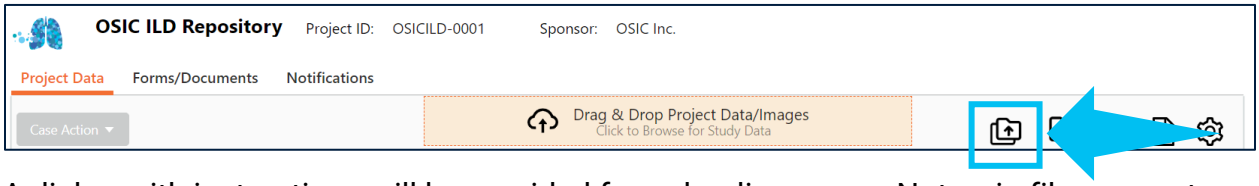
For each upload, a Case Report Form (CRF) is required to complete. Select your data upload type if prompted.



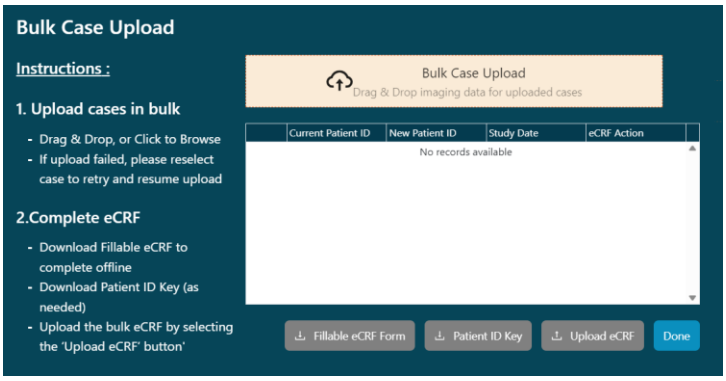
Select "Confirm" to submit the case and initiate the upload. The data will begin uploading to *OSIC Cloud*. The CRF can be edited by the contributor by selecting the case and selecting 'View/Edit CRF' from the Case Actions. ***Record the new, deidentified subject ID for the OSIC Cloud mapped to your patient for reference to address any clinical data questions from the OSIC Administrative Team.***

Bulk Upload Data Contribution

Cases can be uploaded in bulk by selecting the 'Bulk Upload' icon.

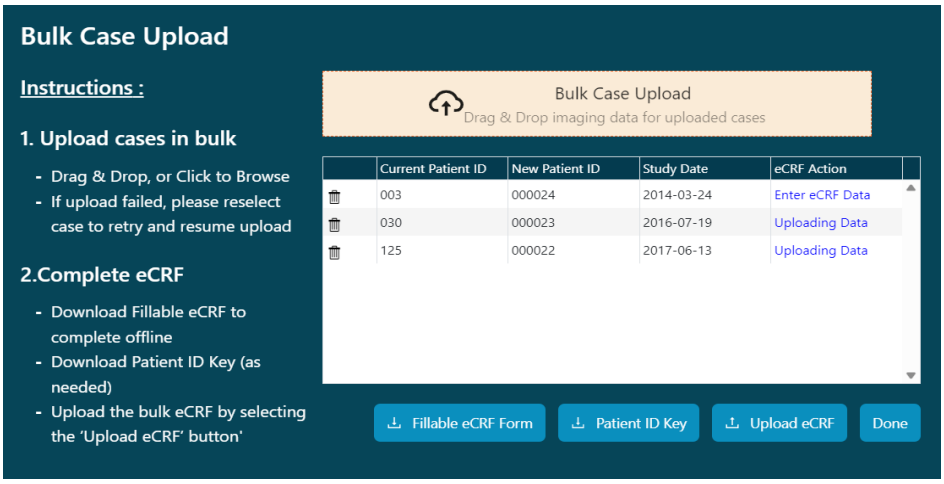


A dialog with instructions will be provided for uploading cases. Note, zip files are not supported with bulk upload.



Cases will be added to the bulk upload queue and will be given new automatically anonymized subject IDs. ***The patient ID key should be downloaded at this time as a record of the new, deidentified subject ID for the OSIC Cloud mapped to your patient for reference to address any clinical data questions from the OSIC Administrative Team.***

To complete the bulk upload, ***CRFs must be completed for each subject***. These can be completed in the browser by selecting the 'Enter eCRF Data' for each subject, or by downloading the 'Fillable eCRF Form' to be completed offline. This form can be reuploaded to the queue.



Once the CRF has been completed for the subject, the case will be automatically uploaded to the Project Data list to begin processing. Cases will then be reviewed for quality and acceptance into the *OSIC Cloud*.

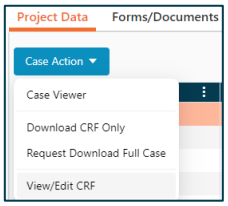
Data Upload Statuses

Status	Meaning
Upload in Progress	The data is actively uploading.
Upload Cancelled	The data upload has been cancelled.
Upload Failed	The scan failed to upload. This can occur in the following scenarios: ▪ Poor network connection. If this occurs, zip the subject study, and retry upload. ▪ Log out, page refresh, or navigate to a different page before the upload is complete. Retry upload.
DICOM Files Not Found	Data uploaded does not contain valid DICOM files. Identify the DICOM files intended to be uploaded and reupload.
Anonymizing Files	The security engine is automatically anonymizing the data.
Processing	The data is processing.
Upload Complete	Data has successfully uploaded.
Processing Review	Data processing requires OSIC administrative review.
Ready for QC	Data is ready for CRF quality check.
CRF Accepted	Data can be analyzed for image quality, CRF review is complete.
Assessing QC	Data is being analyzed for scan quality.
Action Required	A QC issue has been identified. ***Action is needed from the Data Contributor*.** The contributor will be contacted for next steps.
QC Complete	The case completed and passed quality control; validation cohort.
Not Qualified	The case did not pass quality control, data does not qualify for contribution to the *OSIC Cloud*.
Qualified	The case did pass quality control. Data is ready for publishing approval.
Published	The data has been published to the *OSIC Cloud*. Data can be requested for download.

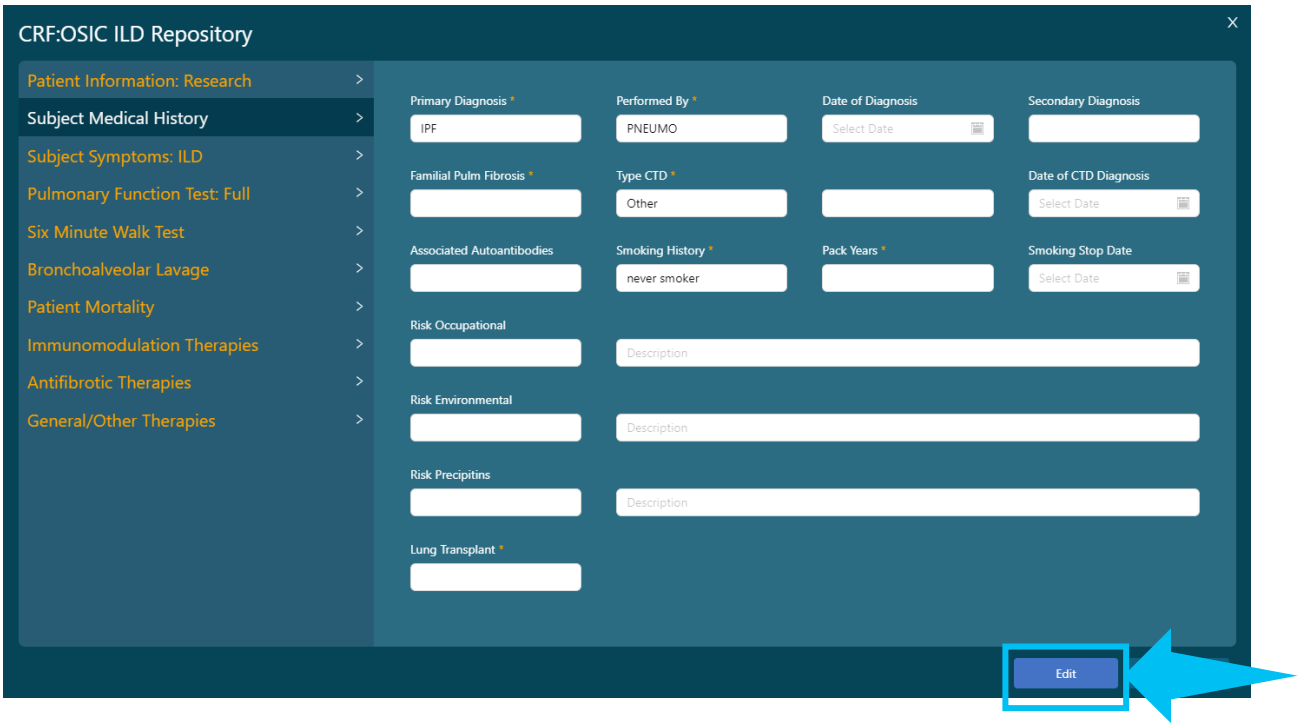
CRF Editing (Post-Upload)

After initial upload to the *OSIC Cloud*, a quality control review is performed by the OSIC Administrative Team of the contributed clinical and imaging data. If you contributed data, the OSIC Administrative Team may contact you with questions or requests that may require you to edit the submitted CRF.

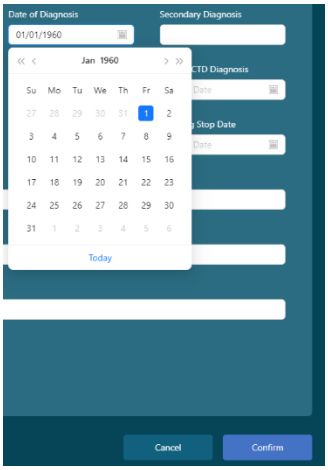
To edit, select the case, select 'Case Actions', select 'View/Edit CRF' (or select the subject ID hyperlink from the study list).



Select the 'Edit' button at the bottom left of the CRF to complete the requested fields.



Note, on initial data ingestion all dates have been normalized. Any edits, or new additions, of dates must be normalized manually. Normalization can be done by identifying the normalized study date from the CRF patient information module, and using a date calculator such as this one to calculate a normalized date.



Enter the date as MM/DD/YYYY and select the date from the provided calendar to add.

Once editing is complete, select 'Confirm' to resubmit.

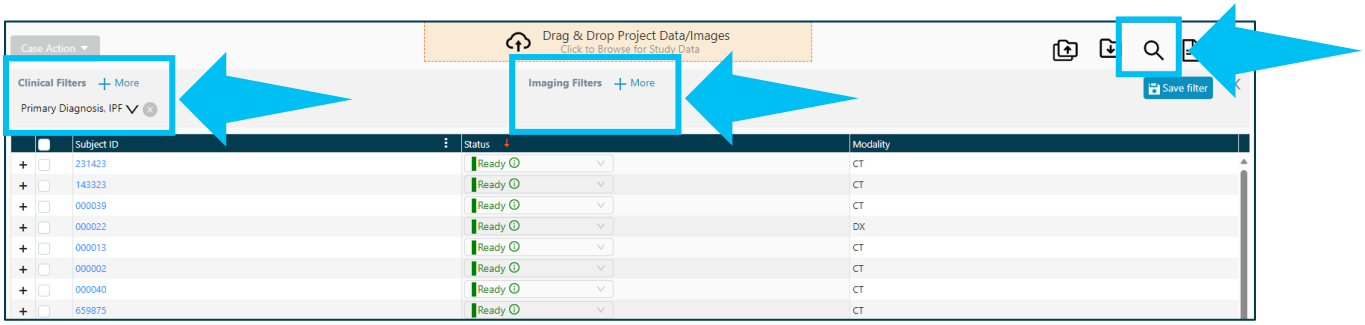
3 Data Download & Advanced Search

Advanced Search

Use 'Advanced Search' to filter cases by specific clinical and imaging fields:

1. Select the magnify glass icon and select 'Advanced Search'.
2. Select a filter of interest (e.g., Primary Diagnosis).
3. Select the values of interest for each filter (e.g., IPF [Primary Diagnosis]).

To search for studies with volumetric data, select the image filter 'slice thickness' and select a value. Add 'slice spacing' filter and select the value equivalent or less than the value selected for slice thickness. This will reflect contiguous or overlapping slices (i.e., volumetric).

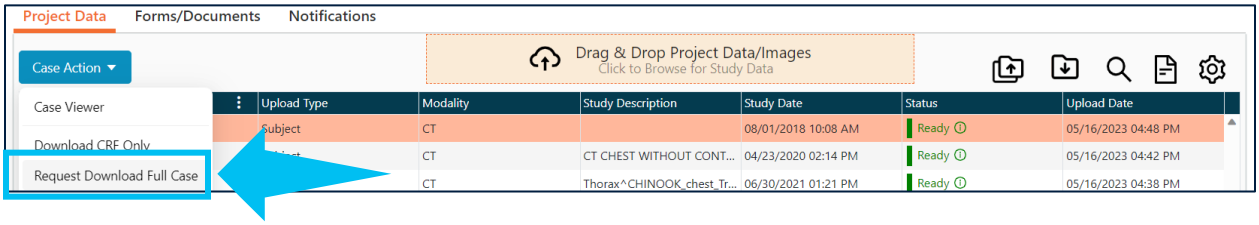


Request for Download

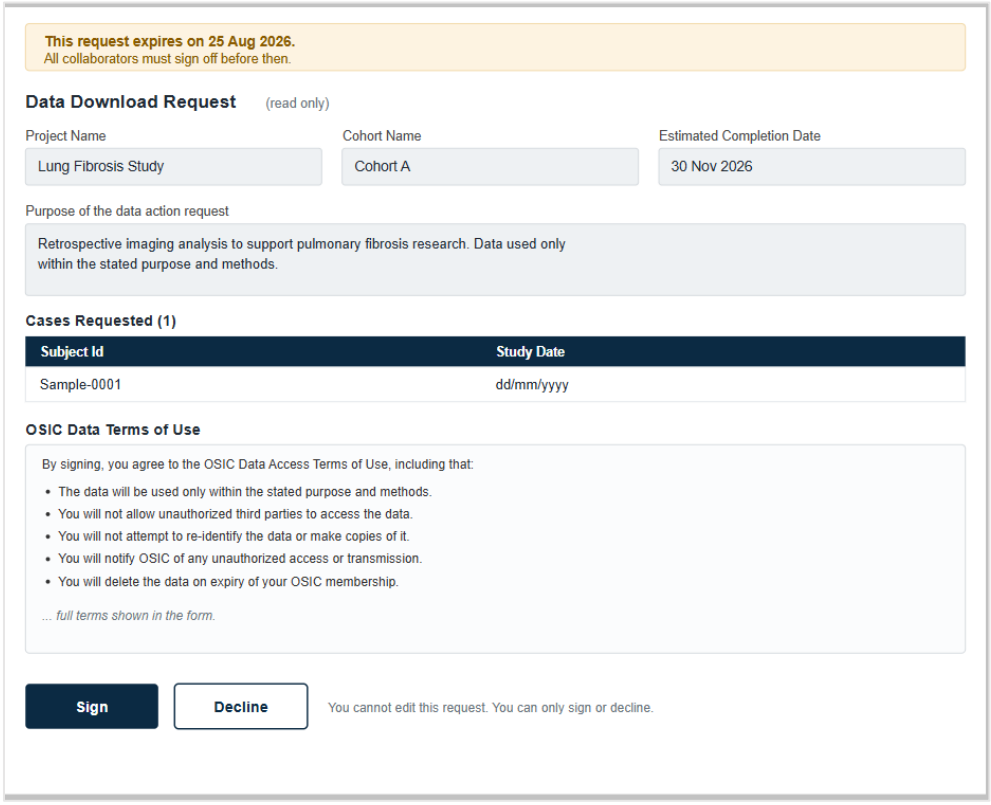
Case Download

To request images for download:

1. Select the cases of interest from the case list.
2. Select 'Request Download Full Case' under Case Action.



3. Complete the **'Download Request Form'**.
    a. Collaborators to the downloaded data must be a member of OSIC Cloud and are required sign the OSIC Data Terms of Use. This signoff will be sent automatically to the collaborators, and signoff is required before the request is routed for OSIC approval.



This request expires on 25 Aug 2026.
All collaborators must sign off before then.

Data Download Request (read only)

Project Name: Lung Fibrosis Study
Cohort Name: Cohort A
Estimated Completion Date: 30 Nov 2026

Purpose of the data action request

Retrospective imaging analysis to support pulmonary fibrosis research. Data used only within the stated purpose and methods.

Cases Requested (1)

Subject Id	Study Date
Sample-0001	dd/mm/yyyy

OSIC Data Terms of Use

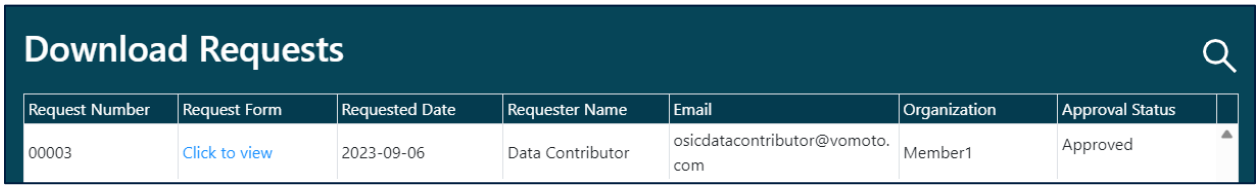
By signing, you agree to the OSIC Data Access Terms of Use, including that:

- The data will be used only within the stated purpose and methods.
- You will not allow unauthorized third parties to access the data.
- You will not attempt to re-identify the data or make copies of it.
- You will notify OSIC of any unauthorized access or transmission.
- You will delete the data on expiry of your OSIC membership.

... full terms shown in the form.

Sign | Decline | You cannot edit this request. You can only sign or decline.

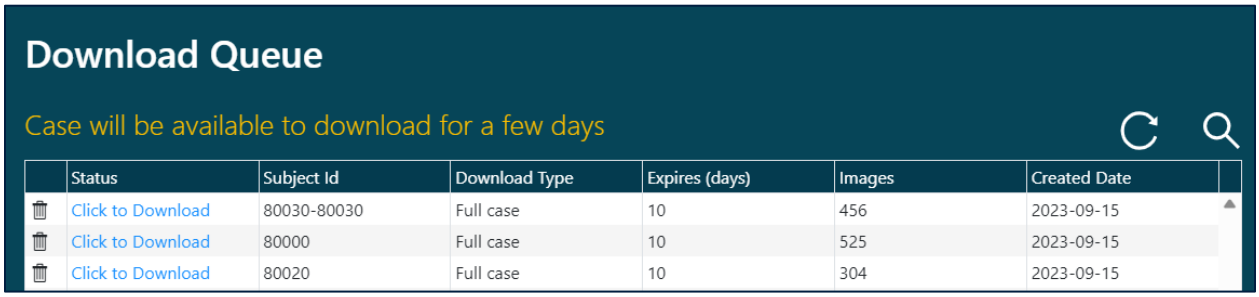
    b. Requests will be reviewed by OSIC Administration and either granted or denied. Request status can be reviewed from the Requests Queue.



Download Requests

Request Number	Request Form	Requested Date	Requester Name	Email	Organization	Approval Status
00003	Click to view	2023-09-06	Data Contributor	osicdatacontributor@vomoto.com	Member1	Approved

4. Once approved, data will be available to download from the Download Queue.
    a. The download will include the imaging data and the CRF clinical data for each case.



	Status	Subject Id	Download Type	Expires (days)	Images	Created Date
	Click to Download	80030-80030	Full case	10	456	2023-09-15
	Click to Download	80000	Full case	10	525	2023-09-15
	Click to Download	80020	Full case	10	304	2023-09-15

CRF Bulk Download

To download clinical CRF data:

1. The case list can be filtered (per the Advanced Search or Per Column Search).
2. Select the report icon and 'Download CRF'. The list of cases filtered in the case list will be included in the file.
3. Navigate to the Download Queue to download the single CRF .csv file; it may take a few minutes to prepare for download.