NBIA Advanced REST API Guide

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What's New

In August 2023, the following APIs were added to this guide.

- Collection Descriptions
- Manifest for Text Search
- Manifest from Patient Study Series
- MD5 Hierarchy

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Purpose of this Guide

This guide explains the advanced features of the National Biomedical Imaging Archive (NBIA) REST APIs that are geared towards developers seeking to integrate searching and downloading TCIA data into their own web and desktop applications.

For information about creating basic queries and downloading data for image analysis, refer to the NBIA Search REST API Guide and NBIA Search with Authentication REST API Guide.

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NBIA Advanced REST API Base URL, Format, and Return Values

The API structure consists of a base URL followed by the API and query parameters, in that order. For example, the API shown below requests all Body Part Values and Counts for the PT modality.

Example NBIA Advanced REST API Query

```
curl -H "Authorization:Bearer cd2b2895-85d0-49c5-bd75-804f162da942" -k
"https://services.cancerimagingarchive.net/nbia-api/services
/getBodyPartValuesAndCounts?Modality=PT"
```

We can break this down as follows.

Object	Example
Access Token	cd2b2895-85d0-49c5-bd75-804f162da942
BaseURL	https://services.cancerimagingarchive.net
Resource	/nbia-api/services
Endpoint	getBodyPartValuesAndCounts
Query Parameters	Modality=PT

⚠ If the value for an attribute is not populated in the specified collection, it will not appear in the returned values.

All APIs return results in JSON format except for the Thumbnail API (JPG), Manifest Text API (TXT), and Series Metadata API (CSV).

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Secure Access to NBIA REST Services

Access to any NBIA Advanced REST API requires a token that you must request. This token can then be used on subsequent requests to authorize access to resources. This token will expire in two hours but you can refresh it.

The NBIA REST API supports secure access to private data in the Client Credentials authorization flow with Spring Security and OAuth2. The Client Credentials authorization flow is also known as "signed fetch" or 2-legged OAuth. The following figure illustrates the typical use case for REST API calls made on the web using 2-legged OAuth. For more information regarding the specific workflow, consult the OAuth2 Specification.

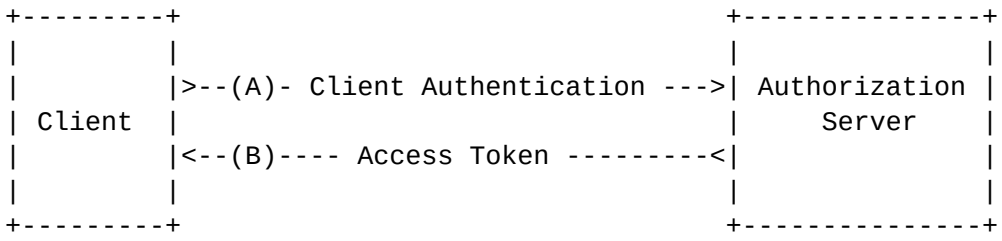


Figure 1: Client Credentials Flow

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Requesting a Token

Access to any NBIA Advanced REST API requires an access token. A request for an access token takes the following structure. Note that USERNAME should be your TCIA username and PASSWORD should be your TCIA password.

Structure of a Request for a Token

```
curl -X -v -d "username=USERNAME&password=PASSWORD&client_id=NBIA&grant_type=password" -X
POST -k https://services.cancerimagingarchive.net/nbia-api/oauth/token
```

If you don't have a TCIA account, you can access public data using the "nbia_guest" account with no password, as follows.

Request a Token to Use with Public Data

```
curl -X -v -d "username=nbia_guest&password=&client_id=NBIA&grant_type=password" -X POST -
k https://services.cancerimagingarchive.net/nbia-api/oauth/token
```

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How a Token is Returned/Granted/Given

A successful token request returns a standard access token in JSON format. The value after "access_token" will be longer than this example.

Sample Token Return Value


```
{"access_token":"cd2b2895-85d0-49c5-bd75-804f162da942","expires_in":7200,"
refresh_expires_in":7200,"refresh_token":"eyJhbGciOiJIUzI1NiIsInR5cCIgO","not-before-
policy":0,"session_state":"92a199c6-84ed-48aa-a0d2-059bbb99bc90","scope":"openid profile
email"}
```


Make a note of the access token you received and pass it with the REST service call.

Sample NBIA Advanced REST API Call

```
# Request for modality values and counts

curl -H "Authorization:Bearer cd2b2895-85d0-49c5-bd75-804f162da942" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getModalityValuesAndCounts?Collection=LIDC-
IDRI"
```

A successful service request returns the value in a defined format.

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Refreshing the Token

You can refresh your access token for an additional two hours by passing the refresh token from your original token request.

Sample Request for Refreshing the Token

```
# Request for refreshing the token

curl -X -v -d  "client_id=nbia&grant_type=refresh_token&refresh_token=YOUR_REFRESH_TOKEN"
-X POST -k https://nbia.cancerimagingarchive.net/nbia-api/oauth/token
```

In the following result, `7200` is the seconds before the token expires.

Sample Return Value

```
{"access_token":"YOUR_ACCESS_TOKEN","expires_in":7200,"refresh_expires_in":7200,"
refresh_token":"YOUR_REFRESH_TOKEN","token_type":"Bearer","id_token":"YOUR_ID_TOKEN","not-
before-policy":0,"session_state":"531425b6-425d-44f8-bc74-41200d6803c0","scope":"openid
profile email"}
```

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Logging Out

The following is an example request to log out. Logging out invalidates the token you previously requested.

Sample Request to Logout

```
# Request for logout

curl -X -v -d "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/logout"
```

The request does not return any values.

Accessing the National Lung Screening Trial (NLST) collection

Due to its size, the National Lung Screening Trial (NLST) collection lives on a separate NBIA server. Since this server only holds the public NLST collection, there is no reason to create an API token with your own credentials. To access these data via the Advanced REST API, you must change the URL to obtain the authentication token from https://nlst.cancerimagingarchive.net/nbia-api/oauth/token. You can then use https://nlst.cancerimagingarchive.net/nbia-api/services/ to make REST API calls. In both cases, the beginning of the URL is changed from "services" to "nlst." Examples of requesting a token and performing an API query are shown below:

Request a Token to Use with Public Data

```
curl -X -v -d "username=nbia_guest&password=&client_id=NBIA&grant_type=password" -X POST -
k https://nlst.cancerimagingarchive.net/nbia-api/oauth/token
```

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://nlst.cancerimagingarchive.net
/nbia-api/services/getBodyPartValuesAndCounts?Modality=PT"
```

REST Advanced REST APIs

The TCIA Radiology Portal's search features use the following Advanced REST APIs.

If the value for an attribute is null in the specified collection, it will not appear in the returned values.

- Body Part Values and Counts API
- Collection Descriptions
- Collection or Series for DOI
- Collection Values and Counts
- Create Saved Cart API
- DICOM Metadata by Series UID API
- Extended Simple Search with Modality and Body Part Paged API
- Image with MD5 Hash API
- Manifest for Simple Search API
- Manifest Text API
- Manifest for Text Search
- Manifest from Patient Study Series
- MD5 Hierarchy
- Manufacturer Values and Counts API
- MD5 Hash for Image API
- Modality Values and Counts API
- Restrictions for Simple Search API
- Series Metadata API
- Species Tax API
- Species Values And Counts API
- Study Drill Down With Series IDs API
- Thumbnail API
- Text Search API
- Updated Series API

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Body Part Values and Counts API

The Body Part Values and Counts API returns the modality values and body part count for the modality. It optionally takes the following parameters.

- Collection
- Modality

Example Body Part Values and Counts Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getBodyPartValuesAndCounts?Modality=PT"
```

Sample Results

The API returns the body parts and their counts.

Sample Response

```
[
{"criteria":"ABDOMEN","count":"13"},
{"criteria":"CHEST","count":"298"},
{"criteria":"Chest","count":"1"},
{"criteria":"HEADNECK","count":"1"},{
"criteria":"Lung","count":"76"},
{"criteria":"THORAX_1_ROUTINE","count":"1"}
]
```

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Collection Descriptions

This API takes a collection name and returns the collection's description.

The API takes one parameter:

- collectionName (optional)

Example getCollectionDescriptions Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getCollectionDescriptions?collectionName=4D-
Lung"
```

If successful, the API returns the collection description.

Sample Response


```
[{"description":"<p>\n\t<span>This data collection consists of images acquired during
chemoradiotherapy of 20 locally-advanced, non-small cell lung cancer patients. The images
include four-dimensional (4D) fan beam (4D-FBCT) and 4D cone beam CT (4D-CBCT). All
patients underwent concurrent radiochemotherapy to a total dose of 64.8-70 Gy using daily
1.8 or 2 Gy fractions.</span></p>\n<p>\n\tA single Radiation Oncologist delineated
targets and organs at risk in all 4D-FBCT and a limited number of 4D-CBCT images. All
patients underwent concurrent radiochemotherapy to a total dose of 64.8-70 Gy using daily
1.8 or 2 Gy fractions.</p>\n<p>\n\tPlease see the <a href=\"http://doi.org/10.7937/K9
/TCIA.2016.ELN8YGLE\" target=\"_blank\">4D-Lung</a> page to learn more about the images
and to obtain any supporting metadata for this collection.</p>\n","id":236322816,"
collectionDescTimestamp":1678942800000,"collectionName":"4D-Lung","userName":"tracyn","
licenseId":null,"descriptionURI":"https://doi.org/10.7937/K9/TCIA.2016.ELN8YGLE"}]
```

Collection or Series for DOI

The Collection or Series for DOI API returns the collection and/or series with the Digital Object Identifier (DOI).

The API takes two parameters:

- DOI
- CollectionOrSeries (optional) - if left empty, only collection names and third party analysis are returned. If set to "series" a full list of Series Instance UIDs associated with each collection are also returned.

Example getCollectionOrSeriesForDOI Query for Collection

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getCollectionOrSeriesForDOI" -d
"DOI=https://doi.org/10.7937/K9/TCIA.2016.ELN8YGLE&CollectionOrSeries=collection"
```

Example getCollectionOrSeriesForDOI Query for Series

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getCollectionOrSeriesForDOI" -d
"DOI=https://doi.org/10.7937/K9/TCIA.2016.ELN8YGLE&CollectionOrSeries=series"
```

Return Value for Collection

Sample Return Value


```
[{""collection"":""4D-Lung"",""seriesInstanceUID"":null,""thirdPartyAnanlysis"":null}]
```


Return Value for Series


```
[{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100037757822547877540622085093"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100049789635984645130991826991"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100055011459662871005613719886"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100137773791956790807544371448"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100317870572035759487319851556"",""
thirdPartyAnanlysis"":null},{""collection"":""4D-Lung"",""seriesInstanceUID"":""
1.3.6.1.4.1.14519.5.2.1.6834.5010.100356687286872672203671297553"",""
thirdPartyAnanlysis"":null},......."
```


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Collection Values and Counts

The Collection Values and Counts API returns the collections and the subject count for the collection.

Example Collection Values And Counts Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getCollectionValuesAndCounts"
```

The API returns the collections with their counts.

Sample Response

```
[
{"criteria":"IDRI","count":"614"},
{"criteria":"IDRICONDUIT","count":"66"},
{"criteria":"LIDC","count":"397"},
{"criteria":"RIDER Pilot","count":"130"},
{"criteria":"SportInjury","count":"1"}
]
```

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Create Saved Cart API

The Create Saved Cart API allows the creation of a saved cart.

The API takes four arguments:

- list - A repeatable parameter for each series you wish to have in the saved cart
- name- Name for the saved cart (note that names of saved carts must be unique)
- description - Description of the saved cart
- url - URL of the saved cart

Example Create Saved Cart Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/createSharedList" -d "list=1.
3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723
&name=MyNewShareList&description=mysharelistdescription&url=https://myurl.com"

NOTE: list=<seriesInstanceUID>
```

Response

List created.

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DICOM Metadata by Series UID API

The DICOM Metadata by Series UID API provides the functionality in the portal where the DICOM data is retrieved from a series.

The API takes one argument:

- SeriesUID

The SeriesUID is available from the Drill Down API call.

Example Metadata Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getDicomTags?SeriesUID=1.
3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723"
```

The API sends back triples of all DICOM element, name, data in the file.

Sample Response

{"element":"(0027,1047)","name":"","data":"1.0"},{"element":"(0027,1050)","name":"","data":"0.0"},{"element":"(0027,1051)","name":"","data":"0.0"},{"element":"(0028,0002)","name":"Samples per Pixel","data":"1"},{"element":"(0028,0004)","name":"Photometric Interpretation","data":"MONOCHROME2"},{"element":"(0028,0010)","name":"Rows","data":"512"},{"element":"(0028,0011)","name":"Columns","data":"512"},{"element":"(0028,0030)","name":"Pixel Spacing","data":"0.878906\\0.878906"},{"element":"(0028,0100)","name":"Bits Allocated","data":"16"},{"element":"(0028,0101)","name":"Bits Stored","data":"16"},{"element":"(0028,0102)","name":"High Bit","data":"15"},{"element":"(0028,0103)","name":"Pixel Representation","data":"1"},{"element":"(0028,0120)","name":"Pixel Padding Value","data":"-2000"},{"element":"(0028,0303)","name":"Longitudinal Temporal Information Modified","data":"MODIFIED"},{"element":"(0028,1050)","name":"Window Center","data":"40"},{"element":"(0028,1051)","name":"Window Width","data":"400"},{"element":"(0028,1052)","name":"Rescale Intercept","data":"0"},{"element":"(0028,1053)","name":"Rescale Slope","data":"1"},{"element":"(0028,1054)","name":"Rescale Type","data":"HU"},{"element":"(0040,0244)","name":"Performed Procedure Step Start Date","data":"19950522"},{"element":"(0040,0245)","name":"Performed Procedure Step Start Time","data":"161702"},{"element":"(0040,0254)","name":"Performed Procedure Step Description","data":"4dct stereo"},{"element":"(0043,0010)","name":"","data":"GEMS_PARM_01"},{"element":"(0043,1010)","name":"","data":"400"},{"element":"(0043,1012)","name":"","data":"99\\99\\99"},{"element":"(0043,1016)","name":"","data":"0"},{"element":"(0043,101E)","name":"","data":"0.000000"},{"element":"(0043,101F)","name":"","data":"0"},{"element":"(0043,1021)","name":"","data":"0"},{"element":"(0043,1025)","name":"","data":"0\\0\\0\\0\\0\\0"},{"element":"(0043,1026)","name":"","data":"0\\0\\0\\0\\0\\0\\0\\0"},{"element":"(0043,1027)","name":"","data":""},{"element":"(0043,102B)","name":"","data":"2\\0\\0\\0"},{"element":"(0043,1031)","name":"","data":"0.000000\\0.000000"},{"element":"(0043,1040)","name":"","data":"353.85443"},{"element":"(0043,1041)","name":"","data":"3600.8787"},{"element":"(0043,1042)","name":"","data":"0"},{"element":"(0043,1043)","name":"","data":"0"},{"element":"(0043,1044)","name":"","data":"0"},{"element":"(0043,1045)","name":"","data":"0"},{"element":"(0043,1046)","name":"","data":"0"},{"element":"(0043,104D)","name":"","data":"0.0"},{"element":"(0043,104E)","name":"","data":"5.00122"},{"element":"(0045,0010)","name":"","data":"GEMS_HELIOS_01"},{"element":"(0045,1001)","name":"","data":"8"},{"element":"(0045,1002)","name":"","data":"2.5"},{"element":"(0045,1003)","name":"","data":"7"},{"element":"(0045,1004)","name":"","data":"6"},{"element":"(0045,1006)","name":"","data":"INTO GANTRY"},{"element":"(0045,1007)","name":"","data":"0.0"},{"element":"(0045,1008)","name":"","data":"0"},{"element":"(0045,1009)","name":"","data":"17"},{"element":"(0045,100A)","name":"","data":"0.0"},{"element":"(0045,100B)","name":"","data":"0.0"},{"element":"(0045,100C)","name":"","data":"0"},{"element":"(0045,100D)","name":"","data":"0"},{"element":"(0045,100E)","name":"","data":"0.0"},{"element":"(0045,100F)","name":"","data":"0.0"},{"element":"(0045,1010)","name":"","data":"0"},{"element":"(0045,1011)","name":"","data":"0"},{"element":"(0045,1012)","name":"","data":"0"},{"element":"(0045,1013)","name":"","data":"10"},{"element":"(0045,1014)","name":"","data":"0"},{"element":"(0045,1015)","name":"","data":"0"},{"element":"(0045,1016)","name":"","data":"0"},{"element":"(0045,1017)","name":"","data":"0"},{"element":"(0045,1018)","name":"","data":"0"},{"element":"(0045,1021)","name":"","data":"0"},{"element":"(0045,1022)","name":"","data":"0"},{"element":"(0045,1032)","name":"","data":"0.5"}]

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Extended Simple Search with Modality and Body Part Paged API

The Extended Simple Search with Modality and Body Part Paged API is used to run queries for the Simple Search GUI in the NBIA client. This API uses a variety of criteria as seen in the NBIA client, as well as the pages of data the client requests. The available criteria types and their components follow. Since the simple search can take an unlimited number of criteria, each of the criteria items is appended with a number signifying its order in the query, starting with 0.

- CollectionCriteria
  - value
- ImageModalityCriteria
  - value
- AnatomicalSiteCriteria
  - value
- ManufacturerCriteria
  - value
- DateRangeCriteria
  - fromDate - Formatted "dd/mm/yyyy"
  - toDate - Formatted "dd/mm/yyyy"
- PatientCriteria
  - value
- MinNumberOfStudiesCriteria
  - value
- SpeciesCriteria
  - The code for the species
- PhantomCriteria
  - yes for phantoms
- TimePointCriteria
  - eventType the eventType for the timepoint
  - fromDate - Formatted "dd/mm/yyyy"
  - toDate - Formatted "dd/mm/yyyy"
- SortField
  - The field to sort on
- SortDirection
  - ascending or descending
- Start
  - The page to start on
- Size
  - How many items per page

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Example Extended Simple Search with Modality and Body Part Paged Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getSimpleSearchWithModalityAndBodyPartPaged" -
d "criteriaType0=TimePointCriteria&eventType0=DIAGNOSIS&fromDay0=-
5&toDay0=10&sortField=subject&sortDirection=descending&start=0&size=9"
```

The API returns the results of the search.

Sample Response


```
{
   "resultSet":[
      {
         "subjectId":"Test-5910936489",
         "project":"Test",
         "id":819200,
         "modalities":[
            "CT"
         ],
         "bodyParts":[
            "LUNG"
         ],
         "species":[
            "L-877FC"
         ],
         "timepoints":{
            "DIAGNOSIS":[
               1,
               3
            ]
         },
         "totalNumberOfStudies":28,
         "totalNumberOfSeries":61,
         "studyIdentifiers":[
            {
               "seriesIdentifiers":[
                  917526,
                  917527,
                  917528
               ],
               "seriesAndModality":[

               ],
               "studyIdentifier":851979
            },
            {
               "seriesIdentifiers":[
                  917529,
                  917530
               ],
               "seriesAndModality":[

               ],
```

```
                  "studyIdentifier":851980
               },
               {
                  "seriesIdentifiers":[
                     917531,
                     917532
                  ],
                  "seriesAndModality":[

                  ],
                  "studyIdentifier":851981
               }
            ]
         }
      ],
      "totalPatients":1,
      "bodyParts":[
         {
            "value":"LUNG",
            "count":1
         }
      ],
      "modalities":[
         {
            "value":"CT",
            "count":1
         }
      ],
      "collections":[
         {
            "value":"Test",
            "count":1
         }
      ],
      "species":[
         {
            "value":"L-877FC",
            "count":1
         }
      ],
      "maxTimepoints":{
         "DIAGNOSIS":3
      },
      "minTimepoints":{
         "DIAGNOSIS":1
      },
      "sort":"subject-descending"
   }
```


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Image with MD5 Hash API

This API takes a series UID and returns a zip file with the images and a CSV file containing the MD5 hashes.

The API takes one argument:

- SeriesInstanceUID

Example Image with MD5 Hash Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN” -k "https://public.cancerimagingarchive.
net/nbia-api/services/v2/getImageWithMD5Hash?SeriesInstanceUID=1.
3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723"
```

The API returns a zip file containing the DICOM images and a CSV file with the MD5 hash code for each image file.

Manifest for Simple Search API

The Manifest Text for Simple Search API allows the creation of a manifest file that can be used to execute the NBIA Data Retriever.

The API takes the same arguments as the Simple Search GUI.

Example Manifest for Simple Search Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getManifestForSimpleSearch" -d
"criteriaType0=ThirdPartyAnalysis&value0=yes&sortField=subject&sortDirection=descending&st
art=0&size=100"
```

The API returns text that can be used as a manifest file for the NBIA Data Retriever.

Sample Response

```
downloadServerUrl=https://nbia.cancerimagingarchive.net/nbia-download/servlet
/DownloadServlet
includeAnnotation=false
noOfrRetry=4
databasketId=manifest-1693254833353.tcia
manifestVersion=3.0
ListOfSeriesToDownload=
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1264
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1263
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1261
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1265
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1262
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1274
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1270
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1269
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1273
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1271
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1272
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1275
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1267
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.1266
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1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.280

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Manifest Text API

The Manifest Text API allows the creation of a manifest file that can be used to execute the NBIA Data Retriever.

The API takes two arguments:

- list - A repeatable parameter of series UIDs for each series you want to download
- includeAnnotation - If "true" is used, the annotations are returned.

Example Manifest Query

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getManifestTextV2" -d "list=1.
3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723&includeAnnotation=false"
```

The API returns text that can be used as a manifest file for the NBIA Data Retriever.

Sample Response

```
"downloadServerUrl=https://nbia.cancerimagingarchive.net/nbia-download/servlet
/DownloadServlet
includeAnnotation=false
noOfrRetry=4
databasketId=manifest-1692722233257.tcia
manifestVersion=3.0
ListOfSeriesToDownload=
1.3.6.1.4.1.14519.5.2.1.6834.5010.100089621274100103247029607723"
```

Manifest for Text Search

This API takes a text value and generates a manifest file of series. This is an API version of the text search in the NBIA Radiology Portal GUI. See Performing a Text Search for more information.

This API takes the following parameter:

- textValue

Example getManifestForTextSearch Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -X POST "https://services.
cancerimagingarchive.net/nbia-api/services/GetManifestForTextSearch" -d "textValue=CT"
```

Sample Response

```
downloadServerUrl=https://services.cancerimagingarchive.net/nbia-download/servlet
/DownloadServlet
includeAnnotation=false
noOfrRetry=4
databasketId=manifest-1680987888150.tcia
manifestVersion=3.0
ListOfSeriesToDownload=
1.3.6.1.4.1.9328.50.4.563784
1.3.6.1.4.1.9328.50.4.568673
1.3.6.1.4.1.9328.50.4.568676
1.3.6.1.4.1.9328.50.4.568678
1.3.6.1.4.1.9328.50.4.569267
1.3.6.1.4.1.9328.50.4.569270
1.3.6.1.4.1.9328.50.4.569273
1.3.6.1.4.1.9328.50.4.569823
1.3.6.1.4.1.9328.50.4.571319
1.3.6.1.4.1.9328.50.4.571323
1.3.6.1.4.1.9328.50.4.571803
1.3.6.1.4.1.9328.50.4.571808
1.3.6.1.4.1.9328.50.4.572414
1.3.6.1.4.1.9328.50.4.572418
1.3.6.1.4.1.9328.50.4.572422
1.3.6.1.4.1.9328.50.4.572425
1.3.6.1.4.1.9328.50.4.572983
1.3.6.1.4.1.9328.50.4.573038
1.3.6.1.4.1.9328.50.4.573635
1.3.6.1.4.1.9328.50.4.573639
1.3.6.1.4.1.9328.50.4.574149
1.3.6.1.4.1.9328.50.4.574153
1.3.6.1.4.1.9328.50.4.578325
1.3.6.1.4.1.9328.50.4.578328
1.3.6.1.4.1.9328.50.4.578331
1.3.6.1.4.1.9328.50.4.578901
1.3.6.1.4.1.9328.50.4.579479
1.3.6.1.4.1.9328.50.4.579482
```

1.3.6.1.4.1.9328.50.4.579494
1.3.6.1.4.1.9328.50.4.580056
1.3.6.1.4.1.9328.50.4.579487
1.3.6.1.4.1.9328.50.4.579490
1.3.6.1.4.1.9328.50.4.580594
1.3.6.1.4.1.9328.50.4.581140
1.3.6.1.4.1.9328.50.4.590291
1.3.6.1.4.1.9328.50.4.590294
1.3.6.1.4.1.9328.50.4.590297
1.3.6.1.4.1.9328.50.4.590890
1.3.6.1.4.1.9328.50.4.591508
1.3.6.1.4.1.9328.50.4.591511
1.3.6.1.4.1.9328.50.4.591513
1.3.6.1.4.1.9328.50.4.591516
1.3.6.1.4.1.9328.50.4.591522
1.3.6.1.4.1.9328.50.4.591975
1.3.6.1.4.1.9328.50.4.592513
1.3.6.1.4.1.9328.50.4.593093
1.3.6.1.4.1.9328.50.4.593096
1.3.6.1.4.1.9328.50.4.593099
1.3.6.1.4.1.9328.50.4.593601
1.3.6.1.4.1.9328.50.4.594099
1.3.6.1.4.1.9328.50.4.594613
1.3.6.1.4.1.9328.50.4.595110
1.3.6.1.4.1.9328.50.4.595623
1.3.6.1.4.1.9328.50.4.596197
1.3.6.1.4.1.9328.50.4.596737
1.3.6.1.4.1.9328.50.4.600540
1.3.6.1.4.1.9328.50.4.600543
1.3.6.1.4.1.9328.50.4.601079
1.3.6.1.4.1.9328.50.4.601082
1.3.6.1.4.1.9328.50.4.601085
1.3.6.1.4.1.9328.50.4.601643
1.3.6.1.4.1.9328.50.4.604326
1.3.6.1.4.1.9328.50.4.604330
1.3.6.1.4.1.9328.50.4.604333
1.3.6.1.4.1.9328.50.4.604801
1.3.6.1.4.1.9328.50.4.604806
1.3.6.1.4.1.9328.50.4.607091
1.3.6.1.4.1.9328.50.4.607094
1.3.6.1.4.1.9328.50.4.607097
1.3.6.1.4.1.9328.50.4.618649
1.3.6.1.4.1.9328.50.4.610796
1.3.6.1.4.1.9328.50.4.610799
1.3.6.1.4.1.9328.50.4.610803
1.3.6.1.4.1.9328.50.4.611364
1.3.6.1.4.1.9328.50.4.611919
1.3.6.1.4.1.9328.50.4.612031
1.3.6.1.4.1.9328.50.4.612039
1.3.6.1.4.1.9328.50.4.612593
1.3.6.1.4.1.9328.50.4.612598
1.3.6.1.4.1.9328.50.4.613155
1.3.6.1.4.1.9328.50.4.613159
1.3.6.1.4.1.9328.50.4.613786
1.3.6.1.4.1.9328.50.4.613791
1.3.6.1.4.1.9328.50.4.613794
1.3.6.1.4.1.9328.50.4.614396
1.3.6.1.4.1.9328.50.4.614399

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Manifest from Patient Study Series

This API takes a a parameter and generates a manifest file of patient IDs that match those parameters.

This API takes the following parameters:

- patientIDs (required)
- studyUIDs (optional)
- seriesUIDs (optional)
- anyOrAll (optional)
- includeAnnotation (optional)

Example getManifestFromPatientStudySeries Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN>" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getManifestFromPatientStudySeries" -d
"patientIDs=ISPY1_1001"
```

If successful, the API returns the following.

Sample Response

```
downloadServerUrl=https://nbia.cancerimagingarchive.net/nbia-download/servlet
/DownloadServlet
includeAnnotation=true
noOfrRetry=4
databasketId=manifest-1692722426170.tcia
manifestVersion=3.0
ListOfSeriesToDownload=
1.3.6.1.4.1.14519.5.2.1.7695.1700.250955243295773832626617549482
1.3.6.1.4.1.14519.5.2.1.7695.1700.360389360742427667526070655843
1.3.6.1.4.1.14519.5.2.1.7695.1700.334491271566855314830260417024
1.3.6.1.4.1.14519.5.2.1.7695.1700.658441262671287309457346305705
1.3.6.1.4.1.14519.5.2.1.7695.1700.131126392922209124942161386151
1.3.6.1.4.1.14519.5.2.1.7695.1700.933316195746120155903339740103
1.3.6.1.4.1.14519.5.2.1.7695.1700.274616783627161175251743615553
1.3.6.1.4.1.14519.5.2.1.7695.1700.733313000644315272006192181431
1.3.6.1.4.1.14519.5.2.1.7695.1700.220092773361369396087067751186
1.3.6.1.4.1.14519.5.2.1.7695.1700.245270018412514241929134140425
1.3.6.1.4.1.14519.5.2.1.7695.1700.229054711046553504545787083659
1.3.6.1.4.1.14519.5.2.1.7695.1700.179162285704690412763684330250
1.3.6.1.4.1.14519.5.2.1.7695.1700.234808560418629209017784958053
1.3.6.1.4.1.14519.5.2.1.7695.1700.154616556555686498817341337478
1.3.6.1.4.1.14519.5.2.1.7695.1700.177623757250131970264857092191
1.3.6.1.4.1.14519.5.2.1.7695.1700.154110825244369885171851551255
1.3.6.1.4.1.14519.5.2.1.7695.1700.284567351304426376226790714264
1.3.6.1.4.1.14519.5.2.1.7695.1700.324328467511449053797650611970
1.3.6.1.4.1.14519.5.2.1.7695.1700.741335780571671051586458569948
1.3.6.1.4.1.14519.5.2.1.7695.1700.335719452327097001305227418372
1.3.6.1.4.1.14519.5.2.1.7695.1700.210538707954985296677398591978
1.3.6.1.4.1.14519.5.2.1.7695.1700.195983148423034180376334647727
1.3.6.1.4.1.14519.5.2.1.7695.1700.244863941836141483641489109194
1.3.6.1.4.1.14519.5.2.1.7695.1700.180831804100647525080922590445
1.3.6.1.4.1.14519.5.2.1.7695.1700.134282805412721876700374897836
1.3.6.1.4.1.14519.5.2.1.7695.1700.226038001772760333157260976449
1.3.6.1.4.1.14519.5.2.1.7695.1700.248017107754573666956949261473
1.3.6.1.4.1.14519.5.2.1.7695.1700.304222333797754930798522430195
1.3.6.1.4.1.14519.5.2.1.7695.1700.571620122698689331448512191875
1.3.6.1.4.1.14519.5.2.1.7695.1700.276008182492477899149189119200
1.3.6.1.4.1.14519.5.2.1.7695.1700.135612062012804030483357359425
1.3.6.1.4.1.14519.5.2.1.7695.1700.311831286327220528148178588078
1.3.6.1.4.1.14519.5.2.1.7695.1700.509490993107578827767081500491
1.3.6.1.4.1.14519.5.2.1.7695.1700.288985999148727959387883654619
1.3.6.1.4.1.14519.5.2.1.7695.1700.180006052978659726439424740707
1.3.6.1.4.1.14519.5.2.1.7695.1700.270834182764177195175091536181
1.3.6.1.4.1.14519.5.2.1.7695.1700.177962682118221509857252041052
1.3.6.1.4.1.14519.5.2.1.7695.1700.332791230985209928247615451914
1.3.6.1.4.1.14519.5.2.1.7695.1700.121164861481441093151316977794
1.3.6.1.4.1.14519.5.2.1.7695.1700.520396403274327587353342330294
1.3.6.1.4.1.14519.5.2.1.7695.1700.195950422361997478270837056988
1.3.6.1.4.1.14519.5.2.1.7695.1700.503697125043256633091008976690
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.286
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.288
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.287
1.3.6.1.4.1.5962.1.1.0.0.1548529146.50549.285
```

MD5 Hierarchy

This API takes the following parameters:

- SeriesInstanceUID (optional)
- StudyInstanceUID (optional)
- PatientID (optional)
- Collection (optional)

Example getMD5Hierarchy Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getMD5Hierarchy" -d "Collection=ISPY1"
```

Sample Response

```
ce9ec0fd7cb437e5cd6b65cf358eea6a
```

Manufacturer Values and Counts API

The Manufacturer Values and Counts API returns the modality values plus the manufacturer count for the modality. It optionally takes the following parameters.

- Collection
- Modality
- Body Part Examined

Example getManufacturerValuesAndCounts Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getManufacturerValuesAndCounts?Collection=4D-
Lung"
```

The API returns the manufacturer and their counts.

Sample Response

```
[{"criteria":"ADAC","count":"20"},{"criteria":"Varian Imaging Laboratories, Switzerland","
count":"20"}]
```

MD5 Hash for Image API

Generates an MD5 Hierarchy for a given Collection, PatientID, StudyInstanceUID, or SeriesInstanceUID, which can be compared to a previously generated hierarchy to determine if any changes have occurred to the data.

The API takes one argument:

- sopInstanceUid

Example MD5 Hash for Image Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/v2/getM5HashForImage?SOPInstanceUid=1.
3.6.1.4.1.14519.5.2.1.6834.5010.129790817462380794533151446268"
```

Sample Response

```
f9a9afbc6a5295cead66f43a5965080d
```

Modality Values and Counts API

The Modality Values and Counts API returns the modality values plus the subject count for the modality. It optionally takes the following parameters.

- Collection
- BodyPartExamined

Example Modality Values and Counts Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getModalityValuesAndCounts?Collection=VICTRE"
```

The API returns the modalities and their counts.

Sample Response

```
[{"criteria":"MG","count":"2994"}]
```

Restrictions for Simple Search API

The Restrictions on Simple Search API returns whether any series returned by simple search has commercial restrictions.

The API takes the same parameters as the Simple Search GUI.

Example getRestrictionsForSimpleSearch Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getRestrictionsForSimpleSearch" -d
"criteriaType0=ThirdPartyAnalysis&value0=yes&sortField=subject&sortDirection=descending&st
art=0&size=1000000"
```

The API returns "Yes" if there are commercial restrictions and "No" if there are not.

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Series Metadata API

The Series Metadata API allows returns the metadata needed by the client for a set of series as CSV.

The API takes one argument:

- list- Comma-separated list of series to return

Example Series Metadata Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getSeriesMetadata2" -d "list=1.
3.6.1.4.1.14519.5.2.1.6834.5010.322628904903035357840500590726"
```

The API returns ok if successful, and the error if one occurs.

Sample Response

```
"""Subject ID"",""Study UID"",""Study Description"",""Study Date"",""Series ID"",""Series
Description"",""Number of images"",""File Size (Bytes)"",""Collection Name"",""
Modality"",""Manufacturer"",""3rd Party Analysis"",""Data Description URI"",""Series
Number"",""License Name"",""License URL""
""100_HM10395"",""1.3.6.1.4.1.14519.5.2.1.6834.5010.335014117706890137582032169351"",""
p4"",""1997-09-15"",""
1.3.6.1.4.1.14519.5.2.1.6834.5010.322628904903035357840500590726"",""P4^P100^S100^I0,
Gated, 0.0%"",""50"",""26405888"",""4D-Lung"",""CT"",""Varian Imaging Laboratories,
Switzerland"","""",""https://doi.org/10.7937/K9/TCIA.2016.ELN8YGLE"",""500"",""Creative
Commons Attribution 3.0 Unported License"",""http://creativecommons.org/licenses/by/3.0
/"""
```

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Species Tax API

The Species Tax API returns the species taxonomy and takes no parameters.

Example Species Tax Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k https://services.cancerimagingarchive.net/nbia-api/services/getSpeciesTax
```

The API returns the current species taxonomy.

Sample Response


```
[{"speciesCode":"447612001","speciesDescription":"Mus musculus"},{"speciesCode":"448771007","speciesDescription":"Canis lupus familiaris"},{"speciesCode":"337915000","speciesDescription":"Homo sapiens"}]
```


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Species Values And Counts API

The Get Species Values And Counts API returns the values and counts for species and takes the same parameters as the Simple Search GUI.

Example Species Values And Counts Query

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getSpeciesValuesAndCounts"
```

The API returns the values and counts for species.

Sample Response


```
[{"criteria":"337915000","count":"33793"},{"criteria":"447612001","count":"393"},
{"criteria":"448771007","count":"57"}]
```


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Study Drill Down With Series IDs API

The Study Drill Down API provides the functionality in the portal where the user drills down to the studies and series associated with a given user.

The API takes a list of series to query, using the parameter "list," that is repeated for each series instance UIDs you want to retrieve.

Example Study Drill Down With Series IDs Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getStudyDrillDownWithSeriesIds" -d "list=1.
3.6.1.4.1.14519.5.2.1.6834.5010.322628904903035357840500590726"
```

The Study Drill Down With Series Ids API returns JSON with the information to populate the drill down to study screen. There can be multiple studies.

Sample Response


```
[{"studyId":"1.3.6.1.4.1.14519.5.2.1.6834.5010.335014117706890137582032169351","date":
874299600000,"description":"p4","id":221806615,"study_id":null,"excludeCommercial":null,"
seriesList":[{"seriesNumber":"500","seriesUID":"
1.3.6.1.4.1.14519.5.2.1.6834.5010.322628904903035357840500590726","numberImages":50,"
modality":"CT","manufacturer":"Varian Imaging Laboratories, Switzerland","
annotationsFlag":false,"annotationsSize":0,"patientId":"100_HM10395","patientPkId":"
221773824","studyId":"1.3.6.1.4.1.14519.5.2.1.6834.5010.335014117706890137582032169351","
studyPkId":221806615,"totalSizeForAllImagesInSeries":26405888,"project":"4D-Lung","
description":"P4^P100^S100^I0, Gated, 0.0%","dataProvenanceSiteName":null,"
manufacturerModelName":null,"softwareVersion":null,"maxFrameCount":"0","studyDate":null,"
studyDesc":null,"bodyPartExamined":"LUNG","study_id":null,"thirdPartyAnalysis":null,"
descriptionURI":"https://doi.org/10.7937/K9/TCIA.2016.ELN8YGLE","sopClassUID":null,"
licenseName":null,"licenseUrl":null,"commercialRestrictions":false,"seriesId":"
1.3.6.1.4.1.14519.5.2.1.6834.5010.322628904903035357840500590726","studyDateString":"","
seriesPkId":221872172,"exactSize":26405888}]}]
```

Thumbnail API

The Get Thumbnail API returns the DICOM tags and values associated with the image.

- seriesUID
- objectUID

Example Thumbnail Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/getThumbnail" -d "seriesUID=1.
3.6.1.4.1.14519.5.2.1.3023.4024.536949365601910993926257264114&objectUID=1.
3.6.1.4.1.14519.5.2.1.3023.4024.822829852603295162591249163632" --output Thumbnail.jpg
```

The API returns a JPG thumbnail.

Sample Response

```
"  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 13757    0 13608  100   149  13608    149  0:00:01 --:--:--  0:00:01 14435"
```

Text Search API

The text search API is used to run queries for Text Search in the portal. The text search takes an argument, textValue.

Example Text Search Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -X POST "https://services.
cancerimagingarchive.net/nbia-api/services/getTextSearch" -d "textValue=mouse"
```

Note that the returned JSON now includes the "hit" that was found by the Solr search engine.

Sample Response


```
[{"subjectId":"292921-168-R-1404","project":"PDMR-292921-168-R","id":716669003,"
totalNumberOfStudies":4,"totalNumberOfSeries":7,"hit":"<em>seriesDesc</em>: PDM
<strong>Mouse</strong> Overview","studyIdentifiers":[{"seriesIdentifiers":
[716734938,716734939],"seriesAndModality":[],"studyIdentifier":716701807},
{"seriesIdentifiers":[716734940,716734941],"seriesAndModality":[],"studyIdentifier":
716701808},{"seriesIdentifiers":[716734942,716734943],"seriesAndModality":[],"
studyIdentifier":716701809},{"seriesIdentifiers":[716734944],"seriesAndModality":[],"
studyIdentifier":716701810}]},{"subjectId":"292921-168-R-1405","project":"PDMR-292921-168-
R","id":679608323,"totalNumberOfStudies":5,"totalNumberOfSeries":9,"hit":"<em>seriesDesc<
/em>: PDM <strong>Mouse</strong> Overview","studyIdentifiers":[{"seriesIdentifiers":
[679706630,679706631],"seriesAndModality":[],"studyIdentifier":679641091},
{"seriesIdentifiers":[716734890,716734891],"seriesAndModality":[],"studyIdentifier":
716701780},{"seriesIdentifiers":[716734892],"seriesAndModality":[],"studyIdentifier":
716701781},{"seriesIdentifiers":[716734893,716734894],"seriesAndModality":[],"
studyIdentifier":716701782},{"seriesIdentifiers":[716734895,716734896],"
seriesAndModality":[],"studyIdentifier":716701783}]},{"subjectId":"292921-168-R-1406","
project":"PDMR-292921-168-R","id":716668994,"totalNumberOfStudies":4,"
totalNumberOfSeries":7,"hit":"<em>seriesDesc</em>: PDM <strong>Mouse</strong> Overview","
studyIdentifiers":[{"seriesIdentifiers":[716734867],"seriesAndModality":[],"
studyIdentifier":716701766},{"seriesIdentifiers":[716734868,716734869],"
seriesAndModality":[],"studyIdentifier":716701767},{"seriesIdentifiers":
[716734870,716734871],"seriesAndModality":[],"studyIdentifier":716701768},
{"seriesIdentifiers":[716734872,716734873],"seriesAndModality":[],"studyIdentifier":
716701769}]},{"subjectId":"292921-168-R-1407","project":"PDMR-292921-168-R","id":
679608326,"totalNumberOfStudies":5,"totalNumberOfSeries":9,"hit":"<em>seriesDesc</em>:
PDM <strong>Mouse</strong> Overview","studyIdentifiers":[{"seriesIdentifiers":
[679706636,679706637],"seriesAndModality":[],"studyIdentifier":679641094},
{"seriesIdentifiers":[716734966,716734967],"seriesAndModality":[],"studyIdentifier":
716701823},{"seriesIdentifiers":[716734968,716734969],"seriesAndModality":[],"
studyIdentifier":716701824},{"seriesIdentifiers":[716734970,716734971],"
seriesAndModality":[],"studyIdentifier":716701825},{"seriesIdentifiers":[716734972],"
seriesAndModality":[],"studyIdentifier":716701826}]},{"subjectId":"292921-168-R-1408","
project":"PDMR-292921-168-R","id":679608325,"totalNumberOfStudies":5,"
totalNumberOfSeries":9,"hit":"<em>seriesDesc</em>: PDM <strong>Mouse</strong> Overview","
studyIdentifiers":[{"seriesIdentifiers":[679706634,679706635],"seriesAndModality":[],"
studyIdentifier":679641093},{"seriesIdentifiers":[716734981,716734982],"
seriesAndModality":[],"studyIdentifier":716701832},{"seriesIdentifiers":
[716734983,716734984],"seriesAndModality":[],"studyIdentifier":716701833},
{"seriesIdentifiers":[716734985],"seriesAndModality":[],"studyIdentifier":716701834},
```

{"seriesIdentifiers":[716734986,716734987],"seriesAndModality":[],"studyIdentifier":
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Updated Series API

This API returns the series that have been updated since a given date.

The API takes one argument:

- fromDate - the date to get the updates have happened

Example Get Updated Series Query

Sample Call

```
curl -H "Authorization:Bearer YOUR_ACCESS_TOKEN" -k "https://services.
cancerimagingarchive.net/nbia-api/services/v2/getUpdatedSeries?fromDate=08/08/2023"
```

The API returns the updated series.

Sample Response


```
[{"SeriesInstanceUID":"1.3.6.1.4.1.14519.5.2.1.231066926328783978070723153778823810093","
StudyInstanceUID":"1.3.6.1.4.1.14519.5.2.1.560009720575711330360845709081783066 45","
Modality":"CT","ProtocolName":"6.1 ABD W\/O  DR 30%","SeriesDate":"2009-06-30 00:00:
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Collection":"CPTAC-CCRCC","PatientID":"C3L-01960","Manufacturer":"GE MEDICAL SYSTEMS","
ManufacturerModelName":"LightSpeed VCT","ImageCount":157},{"SeriesInstanceUID":"
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ProtocolName":"6.1 ABD W\/O  DR 30%","SeriesDate":"2009-06-30 00:00:00.0","
SeriesDescription":"Sag 2x2","BodyPartExamined":"KIDNEY","SeriesNumber":602,"Collection":"
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Manufacturer":"SIEMENS","ManufacturerModelName":"SOMATOM Definition AS+","
SoftwareVersions":"syngo CT 2012B","ImageCount":105},{"SeriesInstanceUID":"
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SoftwareVersions":"syngo CT 2012B","ImageCount":230},{"SeriesInstanceUID":"
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BodyPartExamined":"ABDOMEN","SeriesNumber":3,"Collection":"CPTAC-UCEC","PatientID":"C3L-
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BodyPartExamined":"KIDNEY","SeriesNumber":2,"Collection":"CPTAC-CCRCC","PatientID":"C3L-
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ProtocolName":"6.1 ABD W\/O DR 30%","SeriesDate":"2009-06-30 00:00:00.0","
SeriesDescription":"SCOUT","BodyPartExamined":"KIDNEY","SeriesNumber":1,"Collection":"
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ProtocolName":"MRI RENAL-KIDNEY","SeriesDate":"2008-11-11 00:00:00.0","
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ManufacturerModelName":"Optima MR450w","SoftwareVersions":"24","ImageCount":30},
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ManufacturerModelName":"Optima MR450w","SoftwareVersions":"24","ImageCount":35},
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ManufacturerModelName":"Optima MR450w","SoftwareVersions":"24","ImageCount":20},
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MEDICAL SYSTEMS","ManufacturerModelName":"Optima MR450w","SoftwareVersions":"24","
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SeriesDate":"2015-03-03 00:00:00.0","SeriesDescription":"Chest\/Abd\/Pel LUNG 3.0 B60f","
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ProtocolName":"COR_T2","SeriesDate":"2011-11-27 00:00:00.0","SeriesDescription":"COR_T2","
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