

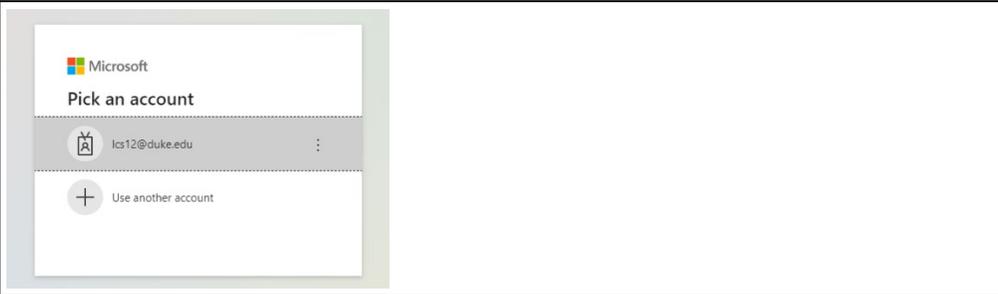
COVID Integrated Data Repository (IDR) Navigation Guide

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Log In

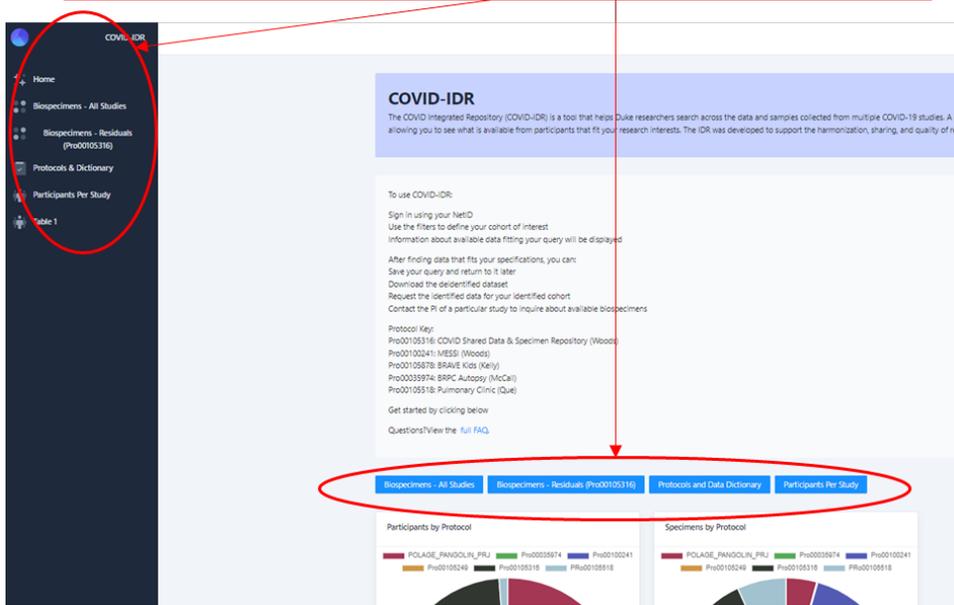
Any Duke faculty or staff member may submit a request via email to CovidIDRandSpecimensRequest@duke.edu to obtain access to the COVID-19 IDR dashboard. Once the request is processed, follow the steps below.

1	Navigate to https://covididr.duhs.duke.edu	
2	Click the Login button	
3	Click Sign in with Azure Active Directory	
4	Select or type in your Duke NetID email address	
5	Log in using your Duke NetID credentials (including MFA if needed)	

Homepage

Navigate to desired areas via (1) left sidebar or (2) tabs in center of screen

Navigate with left sidebar or tabs in center of screen



View Options for Data Searches

<p>1 Users may select 1 of 3 views to search for data</p>	<p style="text-align: center;">Three views to search for data</p>
<p>2 Select “Biospecimens – All Studies” to identify patients or specimens across all studies included in the COVID-19 IDR.</p> <p>The graph displays specimen types.</p>	

2 Select “Biospecimens-Residuals (Pro00105316)” to limit your search to the SOM COVID-19 Residual Sample Biorepository.

Note: The “Biospecimens-Residuals (Pro00105316)” is identical to the other two views, except it does not include the “Research Protocol” filter.

COVID-19 Residual Data Repository Biospecimen Inventory

Filters

COVID Test Result:

Gender:

Race:

Ethnicity:

Minimum Age:

Maximum Age:

Tissue Type:

Condition Groups:

Condition:

Minimum Collected Date:

Maximum Collected Date:

Zip Code:

Genbank Seq:

Biospecimens

Patients: 4507 Specimens: 36474

3 Select “Participants Per Study” to identify patients or specimens across all studies included in the COVID-19 IDR.

The graph displays counts of specimens per protocols.

Participants by Biospecimen Type and Protocol

Filters

COVID Test Result:

Gender:

Race:

Ethnicity:

Minimum Age:

Maximum Age:

Tissue Type:

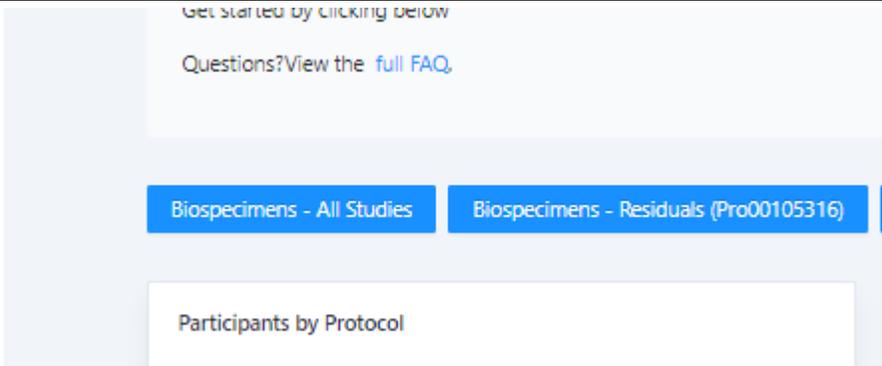
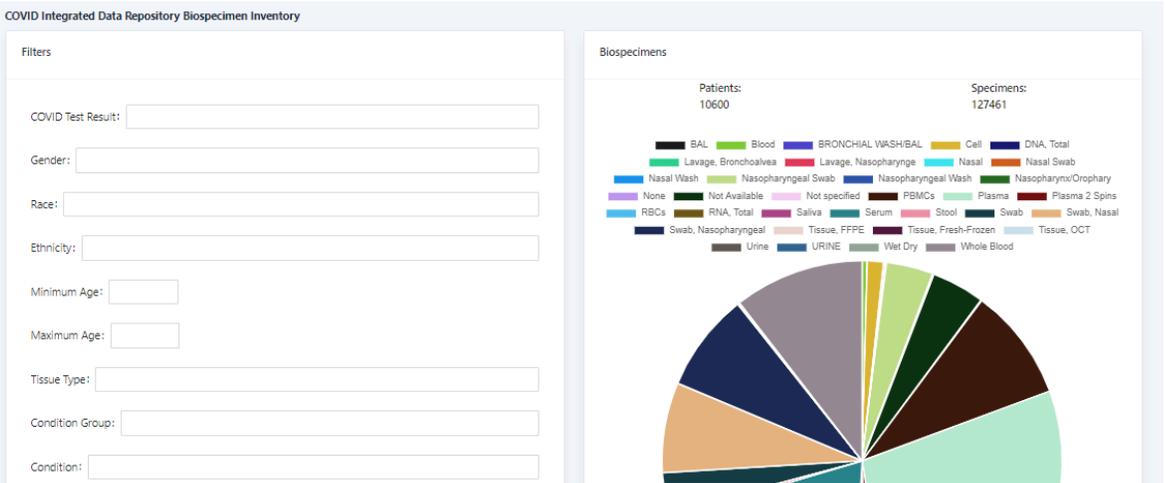
Condition Groups:

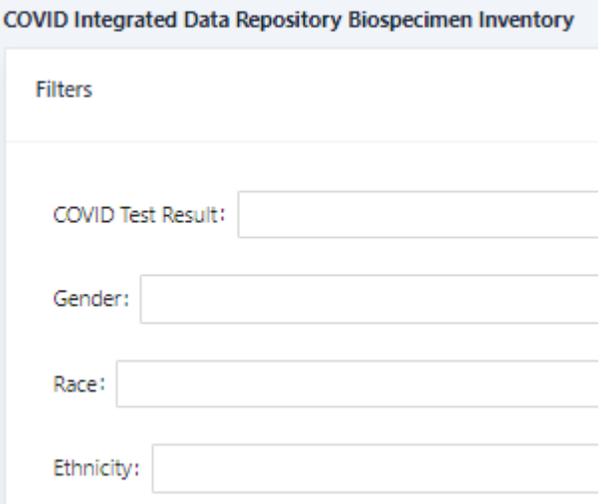
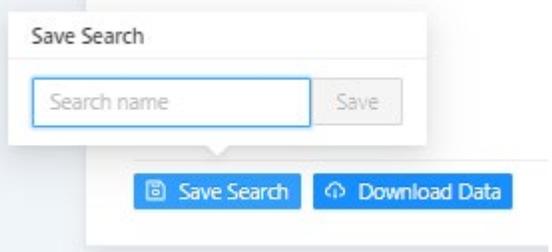
Condition:

Biospecimens

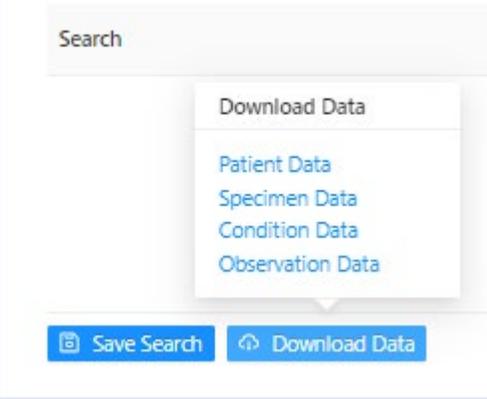
Patients: 10600 Specimens: 127461

Identify a Cohort

<p>1</p> <p>Select “Biospecimens – All Studies” to identify patients or specimens across all studies included in the COVID-19 IDR.</p> <p>Select “Biospecimens-Residuals (Pro00105316)” to limit your search to the SOM COVID-19 Residual Sample Biorepository.</p>	
<p>2</p> <p>Users will see this view to begin their search in “Biospecimens – All Studies”.</p> <p>Note: The “Biospecimens-Residuals (Pro00105316)” is identical, except it does not include the “Research Protocol” filter.</p>	

3	Use the filters to narrow your search to patients and/or specimens of interest.																															
4a	Filter – COVID Test Result.	<p>COVID test results are pulled from the electronic health record (EHR). Individuals may have multiple test results over a period of time. Users may filter for</p> <ul style="list-style-type: none"> • Any positive test result • Any negative test result • No positive test result (i.e. only results in Duke data are negative) • No negative test result (i.e. only results in Duke data are positive) <p>There is no direct connection between a specimen and a positive/negative test result.</p>																														
4b	Filter - Tissue Type	Users may specify tissue type for specimens of interest. “None” reflects that the field was blank (data issue).																														
4c	Filters – Condition and Condition Group	Users may type conditions of interest and potential matches will populate for selection.																														
4d	Filter – Research Protocols	Users may select a protocol to search for specimens only associated with protocols of interest.																														
5	Data Preview	<p>As filters are applied, the graph updates automatically. Depending on your level of access, some minimal de-identified data may be available for preview.</p> <table border="1" data-bbox="365 1386 1404 1585"> <thead> <tr> <th>Patient ID</th> <th>Specimen ID</th> <th>Age</th> <th>Race</th> <th>Sex</th> <th>Tissue Type</th> </tr> </thead> <tbody> <tr> <td>cd208f0a74f9e2dd09ab80edc0...</td> <td>001d982b93c3d2390e2c2a913ac...</td> <td>64</td> <td>BLACK OR AFRICAN AMERICAN</td> <td>male</td> <td>Whole Blood</td> </tr> <tr> <td>b298c1b95d58c2d37e7756e956d...</td> <td>001f00ee27e75b434559797c0fa...</td> <td>62</td> <td>CAUCASIAN/WHITE</td> <td>female</td> <td>Swab, Nasopharyngeal</td> </tr> <tr> <td>074e3a2dc51afcb05532372696a...</td> <td>0021c972e4c3f4ed14a9bb92546...</td> <td>33</td> <td>CAUCASIAN/WHITE</td> <td>male</td> <td>Plasma</td> </tr> <tr> <td>c22831bc62fe67d76e1a2b090eb...</td> <td>00257c64715f42680033d078cfc...</td> <td>57</td> <td>CAUCASIAN/WHITE</td> <td>male</td> <td>Plasma</td> </tr> </tbody> </table>	Patient ID	Specimen ID	Age	Race	Sex	Tissue Type	cd208f0a74f9e2dd09ab80edc0...	001d982b93c3d2390e2c2a913ac...	64	BLACK OR AFRICAN AMERICAN	male	Whole Blood	b298c1b95d58c2d37e7756e956d...	001f00ee27e75b434559797c0fa...	62	CAUCASIAN/WHITE	female	Swab, Nasopharyngeal	074e3a2dc51afcb05532372696a...	0021c972e4c3f4ed14a9bb92546...	33	CAUCASIAN/WHITE	male	Plasma	c22831bc62fe67d76e1a2b090eb...	00257c64715f42680033d078cfc...	57	CAUCASIAN/WHITE	male	Plasma
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6	Save Search – You may save a search to execute again in the future.																															

Get the Data – For Users with Approved IRB Protocol

1	Download Data – You may download deidentified data from your search in .csv format	
2	Patient Data	<p>The following fields are available:</p> <ul style="list-style-type: none"> • "id","birth_date","gender","zip","ethnicity","race" • "Birth date" is not the exact date, it has been "jittered"
3	Specimen Data	<p>The following fields are available:</p> <ul style="list-style-type: none"> • "id","subject","type","protocol","collected_date" • "id" is de-identified specimen ID. Each one will be unique. • "subject" is de-identified version of medical record number (MRN). You may see multiple results with this ID if the patient has more than one specimen
4	Condition Data	<p>The following fields are available:</p> <ul style="list-style-type: none"> • "id","subject","icd10","icd9","condition" • "id" is condition ID. Each one will be unique. • "subject" is de-identified version of medical record number (MRN). You may see multiple results with this ID if the patient has more than one condition • Examples of conditions are
5	Observation Data	<p>The following fields are available:</p> <ul style="list-style-type: none"> • "id","subject","type","value" • "id" is observation ID. Each one will be unique. • "subject" is de-identified version of medical record number (MRN). You may see multiple results with this ID if the patient has more than one condition • Examples of observation types are BMI, smoking status, etc. Lab values should also be included here.
6	All Data	<p>Users with IRB approval may send an email to mailto:CovidIDRandSpecimensRequest@dm.duke.edu to request more de-identified data and/or in a different format (e.g. FHIR) or identified data via an Honest Broker and delivered to PACE.</p>

Protocol Information and Data Dictionary

Provides a list of protocols included in the IDR with a brief description of each. Users may download a PDF version of the information.

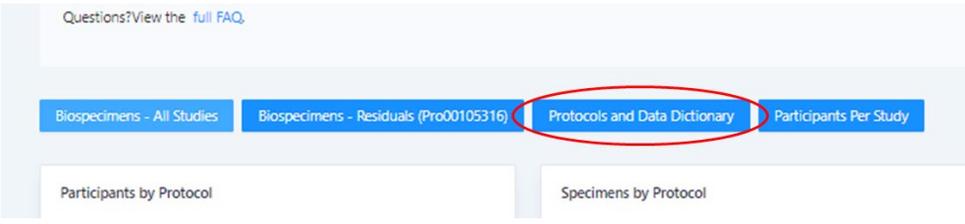
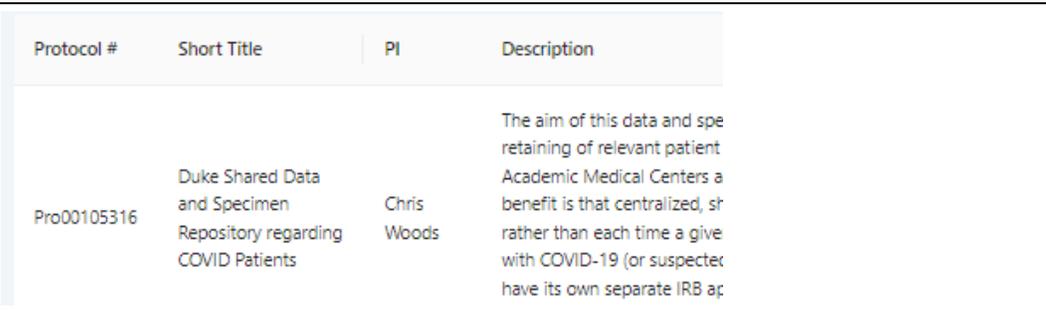
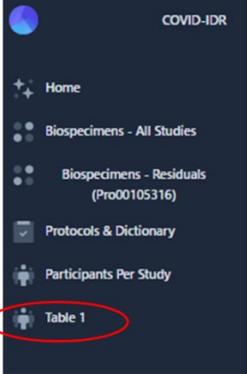
1	Select "Protocols & Dictionary".	 <p>Questions?View the full FAQ.</p> <p>Biospecimens - All Studies Biospecimens - Residuals (Pro00105316) Protocols and Data Dictionary Participants Per Study</p> <p>Participants by Protocol Specimens by Protocol</p>																		
2	This view provides a list of protocols included in the IDR with a brief description of each.	 <table border="1"> <thead> <tr> <th>Protocol #</th> <th>Short Title</th> <th>PI</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Pro00105316</td> <td>Duke Shared Data and Specimen Repository regarding COVID Patients</td> <td>Chris Woods</td> <td>The aim of this data and spe retaining of relevant patient Academic Medical Centers a benefit is that centralized, sr rather than each time a give with COVID-19 (or suspectec have its own separate IRB ap</td> </tr> </tbody> </table>	Protocol #	Short Title	PI	Description	Pro00105316	Duke Shared Data and Specimen Repository regarding COVID Patients	Chris Woods	The aim of this data and spe retaining of relevant patient Academic Medical Centers a benefit is that centralized, sr rather than each time a give with COVID-19 (or suspectec have its own separate IRB ap										
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3	<p>Scroll down the page to view the data dictionary.</p> <p>Users may download a PDF version of the full data dictionary.</p> <p>Users may also search for specific terms in the data dictionary</p>	 <p>Download PDF  <input type="text" value="Search the data dictionary"/></p> <table border="1"> <thead> <tr> <th>Category</th> <th>Data Field</th> <th>Data Label</th> <th>FHIR Resource</th> <th>FHIR Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Demographics</td> <td>MRN</td> <td></td> <td>Patient</td> <td>identifiervalue</td> <td>The unique ID of the patient's Duke IV</td> </tr> <tr> <td>Demographics</td> <td>PAT_ID</td> <td></td> <td>Patient</td> <td>identifiervalue</td> <td>The unique EPIC ID of the patient</td> </tr> </tbody> </table>	Category	Data Field	Data Label	FHIR Resource	FHIR Value	Description	Demographics	MRN		Patient	identifiervalue	The unique ID of the patient's Duke IV	Demographics	PAT_ID		Patient	identifiervalue	The unique EPIC ID of the patient
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Table 1

1	Select "Table 1" from left navigation menu	 <p>The screenshot shows a dark-themed navigation menu for COVID-IDR. The menu items are: Home, Biospecimens - All Studies, Biospecimens - Residuals (Pro00105316), Protocols & Dictionary, Participants Per Study, and Table 1. The 'Table 1' item is circled in red.</p>																
2	This view provides a "Table 1" to summarize all data across all protocols.	 <p>The screenshot displays the 'Table 1' data view. It contains two main sections: a summary table and a 'Specimen Types' table.</p> <table border="1" data-bbox="574 617 1516 737"> <thead> <tr> <th colspan="2">Table 1</th> </tr> </thead> <tbody> <tr> <td>Specimens</td> <td>94,104</td> </tr> <tr> <td>Patients</td> <td>5,231</td> </tr> </tbody> </table> <table border="1" data-bbox="574 751 1516 1018"> <thead> <tr> <th colspan="2">Specimen Types</th> </tr> </thead> <tbody> <tr> <td>RNA, Total</td> <td>74</td> </tr> <tr> <td>Plasma</td> <td>26,012</td> </tr> <tr> <td>Tissue, OCT</td> <td>63</td> </tr> <tr> <td>Saliva</td> <td>437</td> </tr> </tbody> </table>	Table 1		Specimens	94,104	Patients	5,231	Specimen Types		RNA, Total	74	Plasma	26,012	Tissue, OCT	63	Saliva	437
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Permissions

Researchers may send an email to <mailto:CovidIDRandSpecimensRequest@dm.duke.edu> to request access to the IDR.

Researchers will only be granted access to view aggregated data unless they provide an RPR or protocol information. The staff will review the RPR or the protocol information in iRIS to confirm the appropriate authorization prior to adding to the IDR. Users will see the following based on their authorization level.

Role	Authorizations
Any faculty or staff having a valid Duke Net ID (excludes affiliate accounts)	<ul style="list-style-type: none"> View aggregated data with counts of participants and specimens by protocol Define a cohort based on specific de-identified clinical parameters such as labs, diagnoses, and demographics; save cohort; view aggregated counts
Research Preparatory to Research (RPR)	All authorizations listed above plus <ul style="list-style-type: none"> View columns of de-identified data (no download capabilities)
Researcher with IRB Protocol Determined Exempt or Approved	All authorization listed above plus <ul style="list-style-type: none"> View and download de-identified data for individual participants
Researcher with Approved IRB Protocol	All authorization listed above plus <ul style="list-style-type: none"> View fully identified data Receive download of fully identified data with Honest Broker assistance
Application Administrator	Full access to data for support to the user community and the application
Honest Broker	Full access to support the needs of the data management
Governance Committee	Elevated access to allow access to datasets subject to review by the committee