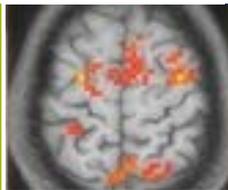




# NDAR Webinar | NDAR Data Submission – Clinical Assessments Data



# Agenda

- NDAR Overview
- NDAR Data Submission Preparedness
- NDAR Clinical Assessments Data Submission
- Questions and Answers

# NDAR Overview

# NDAR Overview

- The NDAR research portal is a secure bioinformatics platform for scientific collaboration and data sharing for Autism Spectrum Disorder (ASD) investigators

*"Open access to data from many people and many studies is paramount in ASD research because of the tremendous range of symptom type and severity among those affected."*

—Thomas R. Insel, M.D.,  
Director, National Institute of Mental Health (NIMH)

# NDAR Overview

- The NDAR research portal is a secure bioinformatics platform for scientific collaboration and data sharing for Autism Spectrum Disorder (ASD) investigators
  - Facilitates data sharing and scientific collaboration
  - Provides bioinformatics solutions to address community-wide needs
  - Enables the effective communication of detailed research data, tools, information, and results

# NDAR Overview

## ■ NIH Funding Organizations

- National Institute of Mental Health (NIMH)
- Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
- National Institute of Neurological Disorders and Stroke (NINDS)
- National Institute of Environmental Health Sciences (NIEHS)

## ■ NIH Contributing Organizations

- Center for Information Technology (CIT)

## ■ NIH Advisory Groups

- NDAR Governance Board
- NDAR Implementation Team (NIT)
- Autism Coordinating Committee (ACC)

# NDAR Team

- Mike Huerta, PhD – Director
- Anne Sperling, PhD – Policy Analyst
- Dan Hall – Manager
- Matt McAuliffe, PhD – Technical Manager, Imaging Lead
- Gretchen Navidi – Principal Analyst, Clinical Assessments
- Eric Stanton – ARRA Web Programming

# NDAR Implementation

NDAR core capabilities link data in a meaningful way:

- **Global Unique Identifier (GUID)** – universal subject ID
- **Data Dictionary** – flexible framework for harmonizing data across studies and institutions
- **Federation** – linkage to other relevant data repositories
  - NIH NIMH Genetics Repository
  - NIH NIMH Transcriptional Atlas of Human Brain Development
  - NIH Pediatric MRI Data Repository
  - Autism Genetic Resource Exchange (AGRE)
  - Interactive Autism Network (IAN)

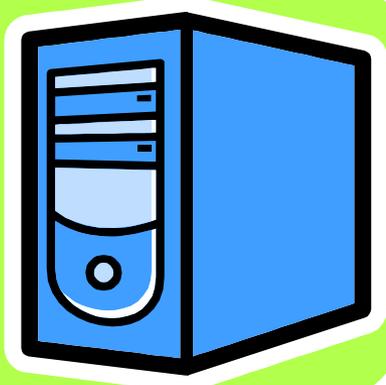
# NDAR Data Submission Preparedness

# Data Submission Preparedness

1. Request an Account on the NDAR Portal  
<http://ndar.nih.gov/ndarpublicweb/policies.go#sop1>
2. Request Data Submission Privileges  
<http://ndar.nih.gov/ndarpublicweb/policies.go#sop2>
3. Create an NDAR Collection  
<http://ndarportal.nih.gov>
4. Generate GUIDs  
<http://ndar.nih.gov/ndarpublicweb/policies.go#sop8>

# NDAR Clinical Assessments Data Submission

# NDAR Data Process



Researcher

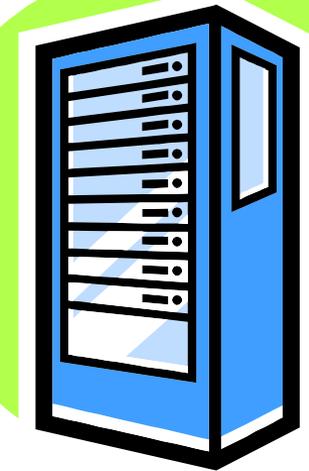
Format

Collect

Validate

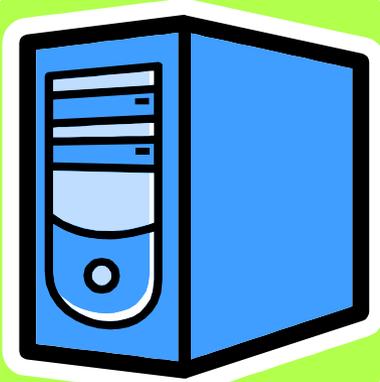
Submit

Share



NDAR

# NDAR Data Process



Researcher

Format

Collect

Validate

Submit

Share



NDAR

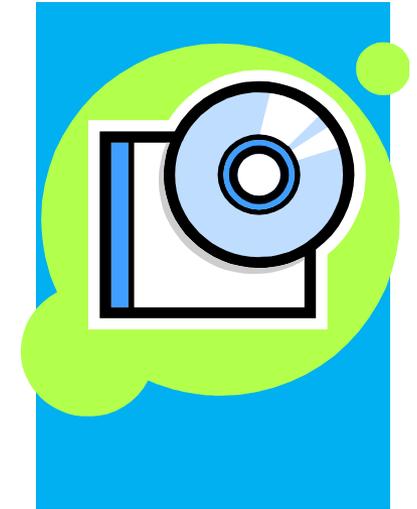
# Format Data

## ■ Data Dictionary

- Standards and conventions for data-sharing within the ASD research community
- Define, refine, and standardize data definition for autism research

## ■ Data Types Supported

- Clinical Assessments
- Imaging
- Genomics
- Other



# Data Dictionary – Clinical Assessments

- Over 175 Clinical Assessments have been defined
  - <http://ndar.nih.gov/ndarpublicweb/DataStructures.go>
- Community continues to define additional Clinical Assessments



# Data Dictionary – Clinical Assessments

Aberrant Behavior Checklist - Community	Peabody Picture Vocabulary Test, Fourth Edition-Form A
Autism Diagnostic Interview - R (ADI-R) - (2003)	Peabody Picture Vocabulary Test, Fourth Edition-Form B
Autism Diagnostic Observation Schedule - Module 1	Peabody Picture Vocabulary Test, Third Edition (Form A)
Autism Diagnostic Observation Schedule - Module 2	Peabody Picture Vocabulary Test, Third Edition (Form B)
Autism Diagnostic Observation Schedule - Module 3	Preschool Language Scale, Fourth Edition (PLS-4) 2002
Autism Diagnostic Observation Schedule - Module 4	Pupillary Light Reflex PLR/Heart Rate Variability HRV
Autism Quotient Adult (2000)	Sensory Profile (1994)
CELF Preschool 2 (2004)	Social Communication Questionnaire (SCQ) - Current
CELF-4 Clinical Evaluation of Lang Fundamentals 4th Ed	Social Communication Questionnaire (SCQ) - Lifetime
CHARGE Family Characteristics Questionnaire	Social Responsiveness Scale (2005)
CHARGE Medical History (May 2007)	Social Responsiveness Scale-Adult Research Version 2005
CHARGE Physical Exam (rev July 2007)	Vineland II -Parent and Caregiver Rating (2005)
Child's Sleep Habits Questionnaire (CSHQ)	Vineland II -Survey Form (2005)
DAS-II: Differential Ability Scales 2nd Ed. School Age	Water Jar Task 1991
DAS-II:Differential Ability Scales 2nd Ed. Early Years	Wechsler Abbreviated Scale of Intelligence
Demographics	Wechsler Adult Intelligence Scale [part 1]
Diagnoses Neurology	Wechsler Adult Intelligence Scale [part 2]
Differential Ability Scales- School Age Record [part 1]	Wechsler Intelligence Scale for Children - IV [part 1]
Differential Ability Scales- School Age Record [part 2]	Wechsler Intelligence Scale for Children - IV [part 2]
Differential Ability Scales-Preschool Record Form	Wechsler Intelligence Scale for Children - IV [part 3]
EOWPVT Expressive One-Word Picture Vocabulary Test 2000	Wechsler Intelligence Scale for Children - IV [part 4]
Fever Assessment	
FXS Demographics	
Judgement of Line Orientation Test - Form H	
Karyotype	
M-CHAT	
Medication Profile	
Modified CHARGE Family Medical History (rev July 2007)	
Mullen - Scales of Early Learning	
NIMH Medical History Questionnaire (draft 2.8.07)	



# Data Dictionary – Clinical Assessments (cont'd)

ABC 1994		BRIEF Adult Version (Informant Report)
ADI 2003	MCI Gestures	BRIEF Adult Version (Self Report)
ADI-R 1993 Short	MCI Sentences	BRIEF Parent Form
ADI-R 1995 Long	Merill Palmer	Brief Telephone Screening Interview
ADI-R 1995 Short	Mullen	BSID II Behavior Rating Scale
ADI-R 1996 Short	P-DAS	BSID II Mental Scale
ADI-R 1997 Long	PDDBI	BSID II Motor Scale
ADI-R 1997 Short	PLS_4	California Verbal Learning Test for Children
ADI-R 1998 Long	PPVT Version 3	California Verbal Learning Test, 2nd ed.
ADI-R 1999 Short	Reynell	CANTAB
ADI-R 2000	S-DAS	Carey Temperament Scales, BSQ (3 to 7 years)
ADI_R 1998 Short	SCQ	Carey Temperament Scales, EITQ (1 to 4 months)
ADOS G Module 1	Sensory Profile 3 to 10 Years	Carey Temperament Scales, RITQ (4 to 11 months)
ADOS G Module 2	Sensory Profile 7 - 36 Months	Carey Temperament Scales, TTS (1 to 2 years)
ADOS G Module 3	SRS	CDISC4 Parent Version
ADOS G Module 4	Stanford Binet 4th Edition	Child Behavior Checklist
ADOS WPS Module 1	Stanford Binet 5th Edition	Demographics
ADOS WPS Module 2	TELD 3	Differential Ability Scales
ADOS WPS Module 3	TOAL 3	Disc Predictive Scales
ADOS WPS Module 4	TOLD I:2	Family Biographical History Form (0:0 - 4:5 y:m)
Bayley Scales for Infant Development	TOLD I:3	FIGS Family History Int. Genetic Studies Yr1
CBCL 1.5 to 5	TOLD P:2	FIGS Family History Int. Genetic Studies Yr3
CBCL 6 to 18	TOLD P:3	Full Telephone Screening Interview - Version 1
CELF	Vineland I	Full Telephone Screening Interview - Version 2
CTOPP Ages 5 to 6	Vineland II	Handedness (1:0 to 2:11 y:m)
CTOPP Ages 7 to 24	WAIS 3	Handedness (3:0 to 5:11 y:m) - Part 1
CYBOCS 1999	WASI	Handedness (3:0 to 5:11 y:m) - Part 2
EVT	WIPPSI 2y6m to 3y11m	Handedness (6:0+ y:m)
Expressive One Word Pic Vocab Test	WIPPSI 4y0m to 7y3m	JTCI Parent Report
General Variables	WISC 3	JTCI Self Report
Leiter Scales	WISC 4	MRI Child History Form (4:6+ y:m)
		NEPSY Verbal Fluency (Semantic and Phonemic)

# Data Structures – Location

- Go to <http://ndar.nih.gov>. Click on the “Tools” tab in the menu.



 **NDAR** National Database  
for Autism Research  
Serving the autism research community

Home About NDAR Data Sharing Standards **Tools** Policy & Procedures Training FAQs

## Welcome to the NDAR research portal.

NDAR is a secure bioinformatics platform for scientific collaboration and data-sharing for Autism Spectrum Disorder (ASD) investigators.

**NEW >>>** [April 29, 2010 Technical Update for ASD Investigators and Data Managers](#)

- Search multiple data sources with a [single query](#).
- Access [genetic, imaging and phenotypic](#) research data (Spring 2010).
- [Store your research data](#) in NDAR.
- [Collaborate with ASD investigators](#) on research studies.

### ASD Research Community

- [REGISTER for NDAR Webinars](#)
- [SUBSCRIBE to Listservs](#)
- [Access data in NDAR](#)
- [Submit data to NDAR](#)
- [Collaborate through NDAR](#)
- [Request an Account](#)

# Data Structures – Location

- Click on the “Data Structures” link under Data Dictionary Tool.



 **NDAR** National Database  
for Autism Research  
Serving the autism research community

Home About NDAR Data Sharing Standards **Tools** Policy & Procedures Training FAQs

Back to: [Home](#) > Tools

## Tools

[Data Dictionary Tool](#) | [Query Tool](#) | [GUID Tool](#) | [Data Validation Tool](#) | [MIPAV](#)

The NIH offers bioinformatics and data management tools for the autism research community to facilitate data sharing and scientific collaboration.

### Data Dictionary Tool

- [NDAR Data Structures](#)
- [NDAR Data Structure Mapping Instructions](#) [ PPT 900 KB ] *Last updated: May 6, 2010*
- [NDAR Data Structure Definition Template](#) [ XLS 80 KB ] *Last updated: Apr 29, 2010*

#### Test Data for NDAR

- This test data generator provides properly formatted phenotypic data that you can use to practice validating data with your NDAR Demo account (<http://ndardemo.nih.gov>). Simply save a file to your desktop, log in to your NDAR Demo account, launch the NDAR Validation Tool and browse to select the file for validation.

Select Form Type:

# Data Structures – Location



**Back to:** [Home](#) > [Tools](#)

## Published Data Structures

Short Name	Full Name	Version
<a href="#">abc_community</a>	Aberrant Behavior Checklist - Community	01
<a href="#">adi_2003</a>	Autism Diagnostic Interview - R (ADI-R) - (2003)	01
<a href="#">ados1_2001</a>	Autism Diagnostic Observation Schedule - Module 1	01
<a href="#">ados2_2001</a>	Autism Diagnostic Observation Schedule - Module 2	01
<a href="#">ados3_2001</a>	Autism Diagnostic Observation Schedule - Module 3	01
<a href="#">ados4_2001</a>	Autism Diagnostic Observation Schedule - Module 4	01
<a href="#">charge_family_char_ques</a>	CHARGE Family Characteristics Questionnaire	02
<a href="#">charge_medical_history</a>	CHARGE Medical History (May 2007)	01
<a href="#">charge_physicalexam</a>	CHARGE Physical Exam (rev July 2007)	01
<a href="#">cs_abc_1994</a>	CPEA STAART ABC 1994	01
<a href="#">cs_adi_r_wps_2003</a>	CPEA STAART ADI 2003	01

The NDAR Data Dictionary Tool is an important mechanism for individual researchers to define and address the local differences associated with research data acquisition.

### Test Data for NDAR

- This test data generator provides properly formatted phenotypic data that you can use to practice validating data with your NDAR Demo account (<http://ndardemo.nih.gov>). Simply save a file to your desktop, log in to your NDAR Demo account, launch the NDAR Validation Tool and browse to select the file for validation.

Select Form Type:

ABC Community

# Data Dictionary – Data Element Names

- **What If.....We have not yet created a data dictionary?**
  - If the clinical assessment is already defined by NDAR
    - Use the data structure from NDAR

# Data Structure – Sample

Back to: [Home](#) > [Data Structures](#)

## Aberrant Behavior Checklist - Community

[Download CSV](#)

**Short Name:** abc\_community

**Version:** 01

ElementName	Data Type	Size	Required	ElementDescription	ValueRange	Aliases
subjectkey	GUID	20	Required	The NDAR Global Unique Identifier (GUID) for subjects which identifies a subject in NDAR	NDAR*	
src_subject_id	String	20	Recommended	The site's subject identification		ABC_Comm_SRC_Subject_ID;
interview_date	DATE		Required	Date on which the interview or test was completed	MM/yyyy;MM/dd/yyyy	ABC_Comm_interview_date;
interview_age	Integer		Required	age in months at the time of the interview/test.	0 to 1200	ABC_Comm_interview_age;
comments_misc	String	255	Optional	"Miscellaneous comments on study, interview, methodology relevant to this form data "		ABC_Comm_comments_misc;
inter_relationparent	String	50	Recommended	Relationship to client - Parent	Yes;No	ABC_Comm_inter_relationparent;
inter_relatioteacher	String	50	Recommended	Relationship to client - Teacher	Yes;No	ABC_Comm_inter_relatioteacher;
inter_relationtrainer	String	50	Recommended	Relationship to client - Trainer/Supervisor	Yes;No	ABC_Comm_inter_relationtrainer;

## Data Dictionary – Data Element Names

- **What If.....We have already created a data structure and our data element names are different from NDAR?**
  - Rename your data elements  
OR
  - Create a Mapping File
  
- **NDAR Data Structure Mapping Instructions:**  
[http://ndar.nih.gov/ndarpublicweb/Documents/NDAR\\_Data\\_Structure\\_Mapping\\_Instructions.ppt](http://ndar.nih.gov/ndarpublicweb/Documents/NDAR_Data_Structure_Mapping_Instructions.ppt)

# Data Dictionary – Mapping File

- **Maps locally used data element names to data element names used by NDAR**
  - Structure Name – Data Structure short name and version number
  - Alias – data element name used locally
  - NDAR – data element name used by NDAR

```
<?xml version="1.0" ?>
<map_file>
  <map_structure name="abc_community01">
    <map_element alias="ID" ndar="src_subject_id" />
    <map_element alias="test_date" ndar="interview_date" />
    <map_element alias="subject_age" ndar="interview_age" />
    <map_element alias="notes" ndar="comments_misc" />
  </map_structure>
</map_file>
```

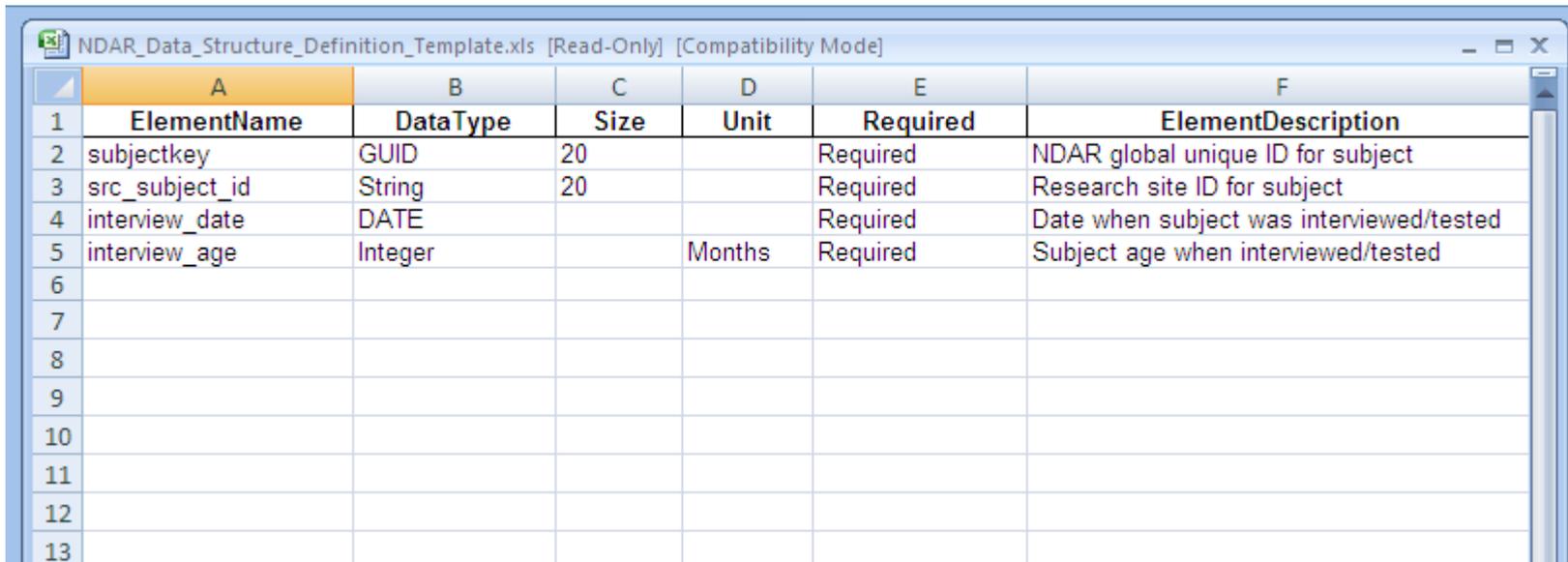
# Data Dictionary – Data Element Names

- **What If.....We have not yet created a data dictionary?**
  - If the clinical assessment is NOT already defined by NDAR
    - Create your own data structure using NDAR formatting standards
    - Provide your data structure to NDAR to be uploaded into the NDAR data dictionary

# New Data Structure Definition – Template

- NDAR Data Structure Definition Template – to create a new data structure

[http://ndar.nih.gov/ndarpublicweb/Documents/NDAR\\_Data\\_Structure\\_Definition\\_Template.xls](http://ndar.nih.gov/ndarpublicweb/Documents/NDAR_Data_Structure_Definition_Template.xls)



	A	B	C	D	E	F
1	ElementName	DataType	Size	Unit	Required	ElementDescription
2	subjectkey	GUID	20		Required	NDAR global unique ID for subject
3	src_subject_id	String	20		Required	Research site ID for subject
4	interview_date	DATE			Required	Date when subject was interviewed/tested
5	interview_age	Integer		Months	Required	Subject age when interviewed/tested
6						
7						
8						
9						
10						
11						
12						
13						

## NDAR Data Elements – Data Types

- Integer - a whole number (not a fractional number) that can be positive, negative, or zero
- Float – a number that contains a floating decimal point
- String - a string is a contiguous sequence of symbols or values, such as a character string (a sequence of characters) or a binary digit string (a sequence of binary values)
- Date - a date ranging from January 1, 0001 through December 31, 9999
  - Format = MM/yyyy;MM/dd/YYYY

## NDAR Data Elements – Data Types

- GUID – contains a prefix, GUID pattern, & check character
  - Prefix = NDAR (Valid GUID) or NDAR\_INV (Pseudo GUID)
  - GUID pattern is AANNNA, where A represents alphabetic and N represents numerical characters
  - Check character can be numerical or alphabetic.
- File – file(s) linked to data being submitted
  - Multiple files can be submitted separated by semi-colon
  - A zip file is allowed
- Accession – can be used to indicate other rows of data, such as Protocols, already uploaded into NDAR
  - Generated by the system

# NDAR Data Elements – Required Levels

- Required Data Elements
  - GUID
  - Subject ID
  - Interview Date
  - Age
- Optional Data Elements
  - Comments
  - Notes
- Recommended
  - Item Level Detail
  - Summary Scores



## NDAR Data Elements – Value Range

- Value Range – acceptable values for the data element
  - Multiple values must be separated by a semicolon
    - Example = 1;3;7
  - Ranges of values should be separated with the word “to”
    - Example = 0 to 1200
  - Valid value must match the data type of the data element.
    - Example = If the data element is specified as an integer, it is not appropriate to have a value range of 1;3;NK as the integer type accepts only numbers

## Data Entry Tips

- Age Range Standard
  - Months: 0 to 1200
  - A response of “since birth” should be recorded as 0
  - A calculated age can be accepted when based on information provided by the respondent
  - Unknown age = 999



# NDAR Data Process



Researcher

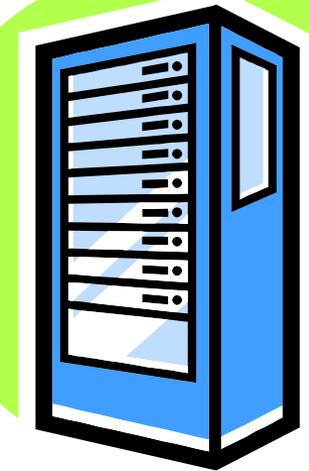
Format

Collect

Validate

Submit

Share

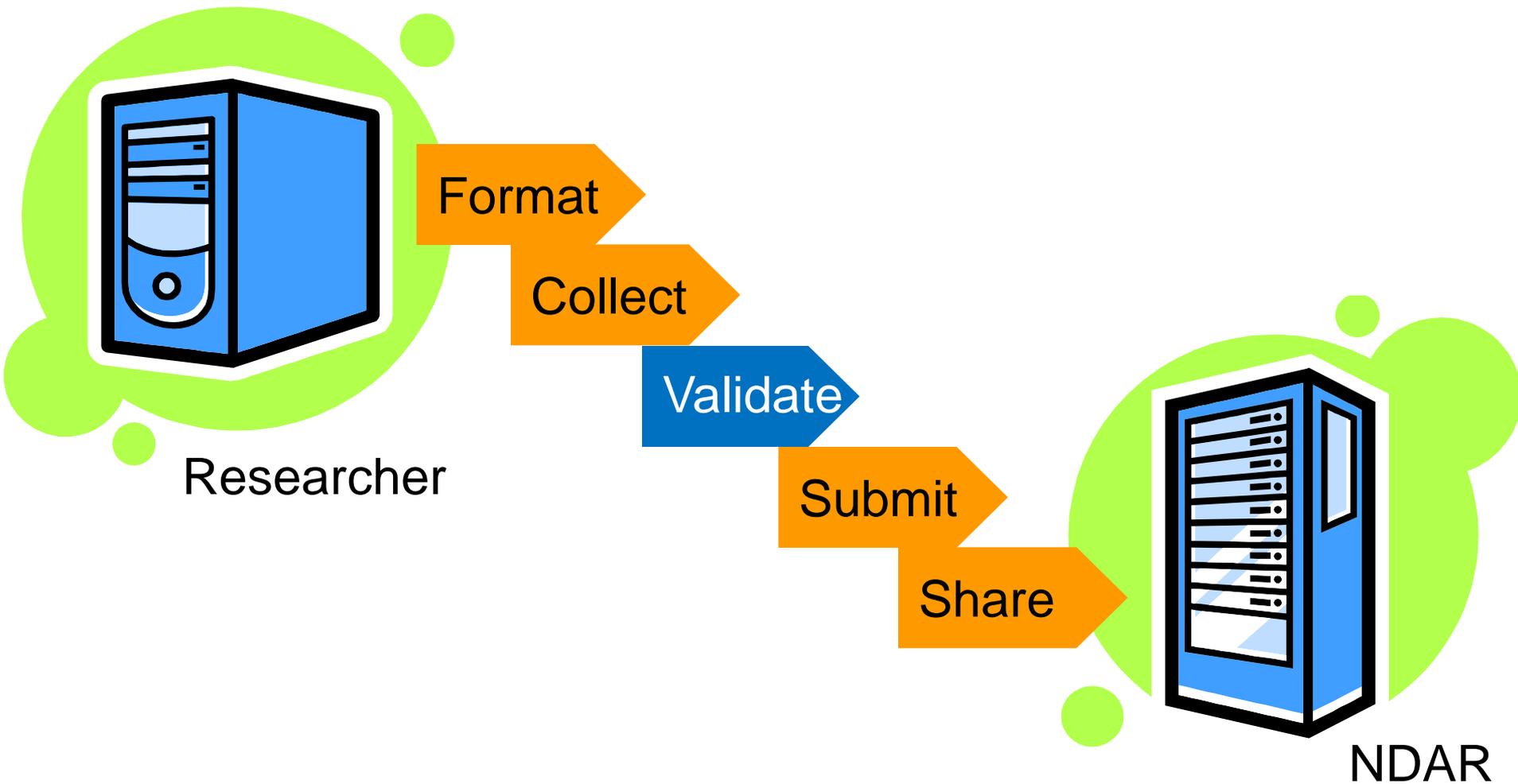


NDAR

# Data Set - Sample

	A	B	C	D	E	F	G	H	I	J	K	
		Charge_medicalhist_SRC_Subject_ID	Charge_medicalhist_interview_date	Charge_medicalhist_comments_mimsc	Charge_medicalhist_diag_aofc	Charge_medicalhist_diag_g_aofc	Charge_medicalhist_diag_ag_fconcer	Charge_medicalhist_diag_st_diag_d	Charge_medicalhist_diag_st_diag_a	Charge_medicalhist_diag_ageatd	Charge_medicalhist_diag_st_diag_d	Charge_medicalhist_diag_madeby
1	SubjectKey											
2	NDARDEMOZY465AYN	6410000	11/29/2008	Take home	13		Self Stimula	Aspergers		13		Psychologi
3	NDARDEMOZY069TN6	6480002	11/29/2008	Completed o	36		Delayed Spe	FragileX		36		Other
4	NDARDEMOZV577NGG	6550005	11/29/2008	Take home	60		Deafness	Downs Syr		60		Physician
5	NDARDEMOZR719MCB	6410000	11/29/2008	Completed o	13		Self Stimula	PDD		13		Psychologi
6	NDARDEMOZP984JFH	6480002	11/29/2008	Take home	36		Delayed Spe	Aspergers		36		Other
7	NDARDEMOZM905KH3	6550005	11/29/2008	Completed o	60		Deafness	FragileX		60		Physician
8	NDARDEMOZH938JT4	6410000	11/29/2008	Take home	13		Self Stimula	Downs Syr		13		Psychologi
9	NDARDEMOZE657YGY	6480002	11/29/2008	Completed o	36		Delayed Spe	PDD		36		Other
10	NDARDEMOZC697MZN	6550005	11/29/2008	Take home	60		Deafness	Aspergers		60		Physician
11	NDARDEMOZC077NEY	6410000	11/29/2008	Completed o	13		Self Stimula	FragileX		13		Psychologi
12	NDARDEMOYZ244TJ5	6480002	11/29/2008	Take home	36		Delayed Spe	Downs Syr		36		Other

# NDAR Data Process

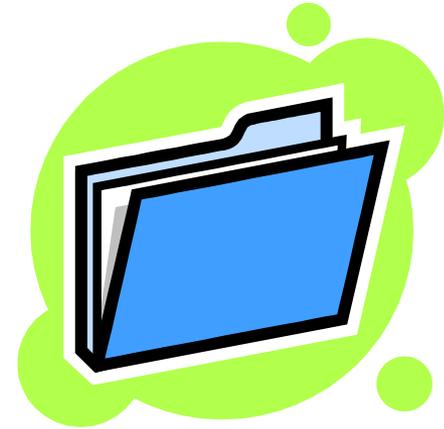


## Validation Tool - Overview

- Verifies that submitted data conform to the required format and range values defined in the NDAR Data Dictionary
- Imports the NDAR Data Dictionary and validates the metadata associated with the files identified by the NDAR user for submission against the data dictionary
- Provides a report of any data discrepancies and warnings
- Creates a submission package
- Uses a Java Web Start application that runs locally on a user's computer
  - Requires the installation of the Java runtime environment

# Validation Tool - Preparation

- Convert raw, locally maintained data to supported file type
- File Types Supported
  - Comma Separated Value
  - Tab Delimited
  - XML(CDISC)
- Create New Folder
- Save all files for submission in one folder

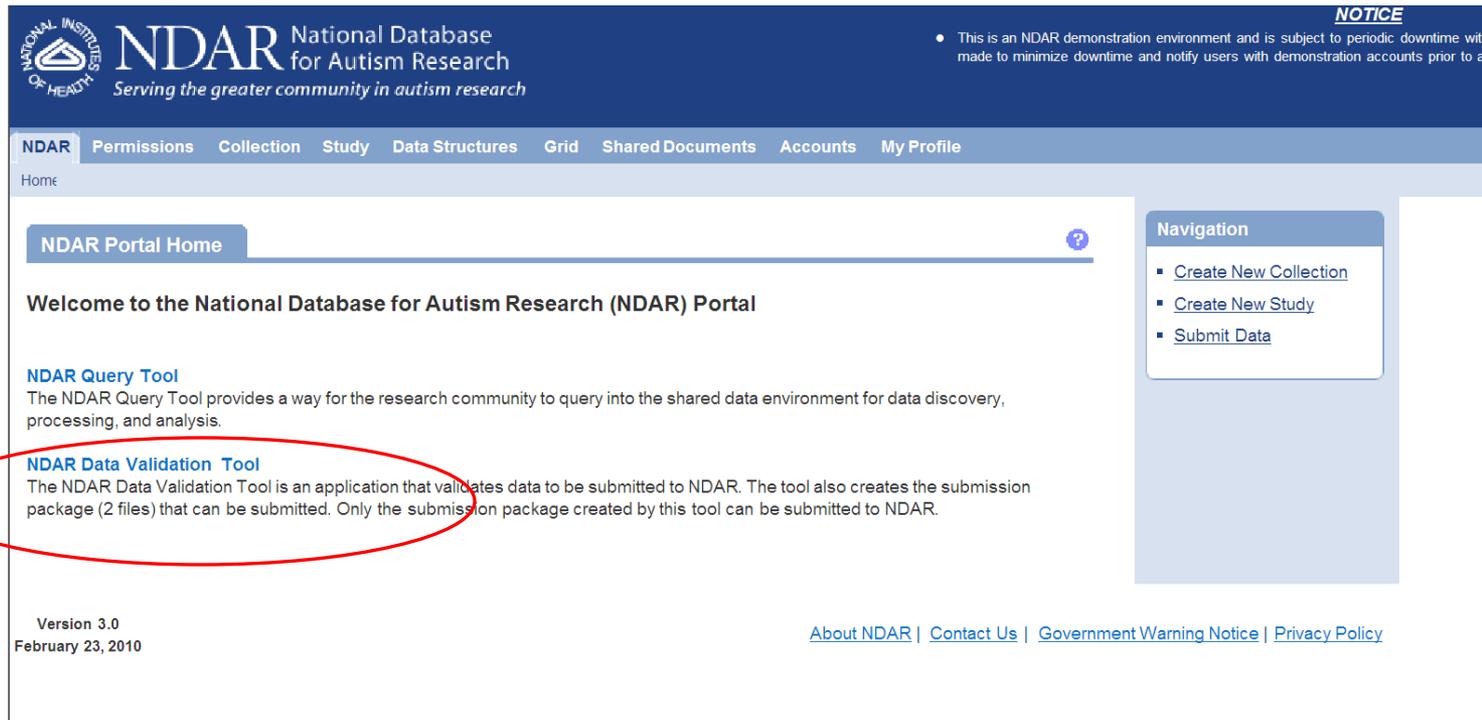


## Validation Tool - Steps

- Open Validation Tool from NDAR Portal
- Browse to folder that contains data files
- Click ‘Load Files’ button
- Exclude files as necessary
- Validate Files
- Fix Errors
  - Errors – Prevent user from continuing with process; Must be fixed
  - Warnings – Do not prevent user from continuing with process
- Validate again, if necessary
- Create Submission Package



# Validation Tool – Access Tool on Portal



**NDAR** National Database for Autism Research  
Serving the greater community in autism research

**NOTICE**

- This is an NDAR demonstration environment and is subject to periodic downtime with made to minimize downtime and notify users with demonstration accounts prior to an

NDAR | Permissions | Collection | Study | Data Structures | Grid | Shared Documents | Accounts | My Profile

Home

NDAR Portal Home

## Welcome to the National Database for Autism Research (NDAR) Portal

**NDAR Query Tool**  
The NDAR Query Tool provides a way for the research community to query into the shared data environment for data discovery, processing, and analysis.

**NDAR Data Validation Tool**  
The NDAR Data Validation Tool is an application that validates data to be submitted to NDAR. The tool also creates the submission package (2 files) that can be submitted. Only the submission package created by this tool can be submitted to NDAR.

**Navigation**

- Create New Collection
- Create New Study
- Submit Data

Version 3.0  
February 23, 2010

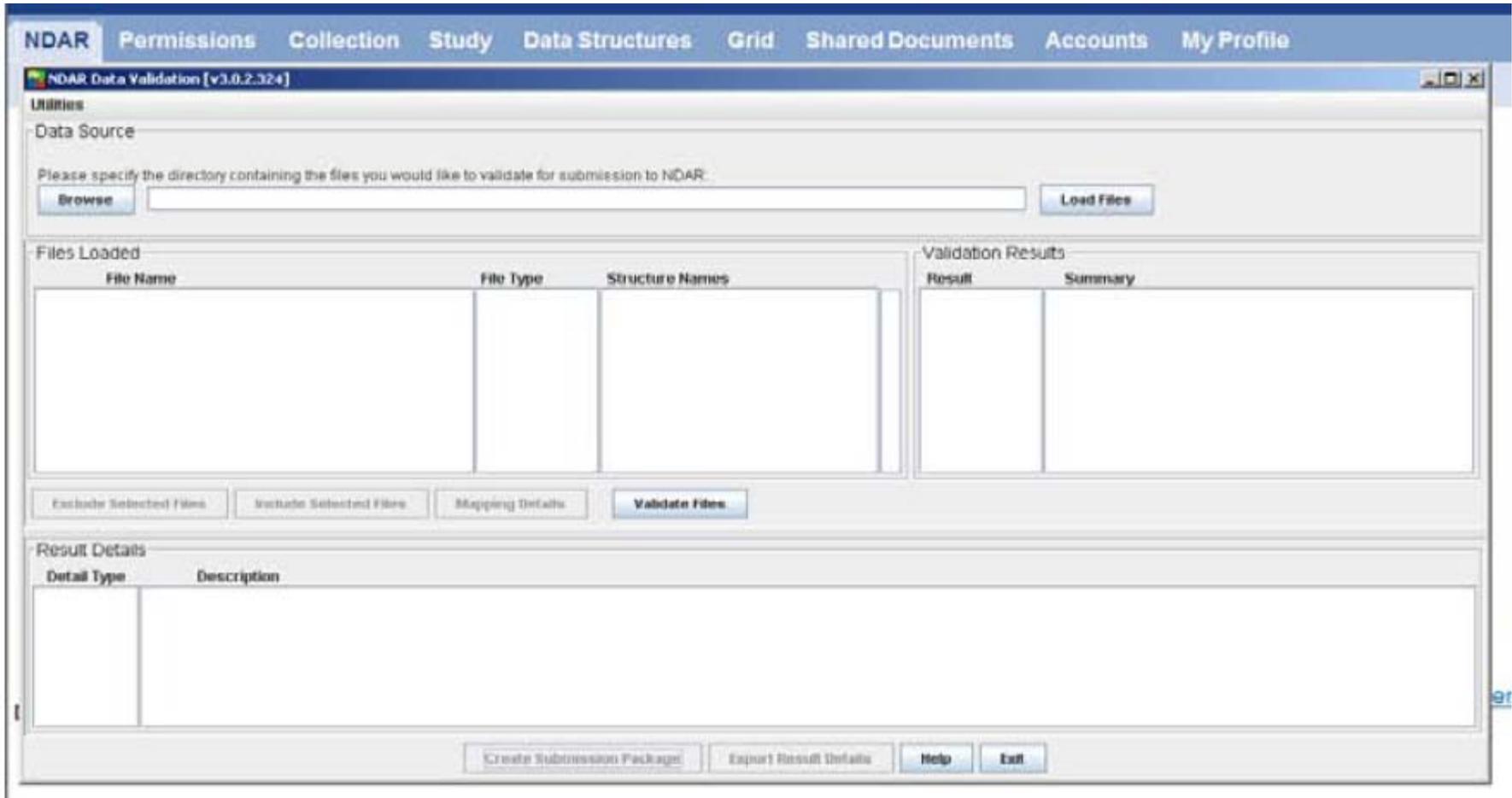
[About NDAR](#) | [Contact Us](#) | [Government Warning Notice](#) | [Privacy Policy](#)

# Validation Tool – Access Tool on Portal



The screenshot shows the NDAR Portal Home page. At the top left is the NDAR logo with the text "National Database for Autism Research" and "Serving the greater community in autism research". To the right, a notice states "This is an NDAR demonstration made to minimize downtime". Below the logo is a navigation menu with links: NDAR, Permissions, Collection, Study, Data Structures, Grid, Shared Documents, Accounts, and My Profile. A "Home" link is also present. The main content area features a "NDAR Portal Home" header with a question mark icon. Below this is a welcome message: "Welcome to the National Database for Autism Research (NDAR) Portal". Two tool descriptions are visible: "NDAR Query Tool" and "NDAR Data Validation Tool". The "NDAR Data Validation Tool" description includes a Java 6 logo and the Sun logo. The text for the validation tool states: "The NDAR Data Validation Tool is an application that validates data to be submitted to NDAR. The tool also creates the submission package (2 files) that can be submitted. Only the submission package created by this tool can be submitted to NDAR."

# Validation Tool – Access Tool on Portal



The screenshot shows the NDAR Data Validation tool interface. At the top, there is a navigation bar with the following tabs: NDAR, Permissions, Collection, Study, Data Structures, Grid, Shared Documents, Accounts, and My Profile. The main window title is "NDAR Data Validation [v3.0.2.324]".

**Utilities**

**Data Source**

Please specify the directory containing the files you would like to validate for submission to NDAR.

**Files Loaded**

File Name	File Type	Structure Names

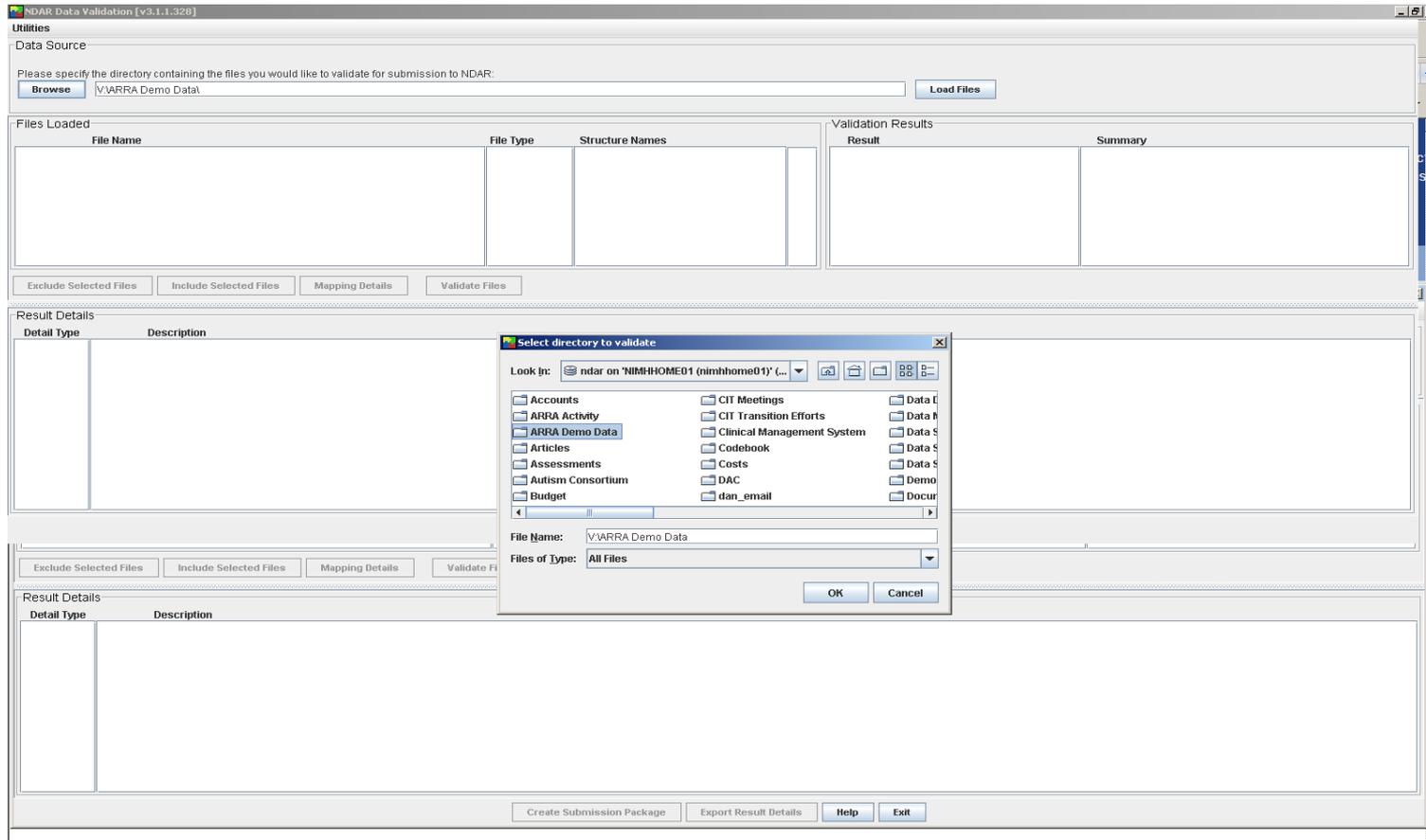
**Validation Results**

Result	Summary

**Result Details**

Detail Type	Description

# Validation Tool – Browse to Data File Folder



NDAR Data Validation [v3.1.1.328]

**Utilities**

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

VARRA Demo Data

Files Loaded			Validation Results	
File Name	File Type	Structure Names	Result	Summary

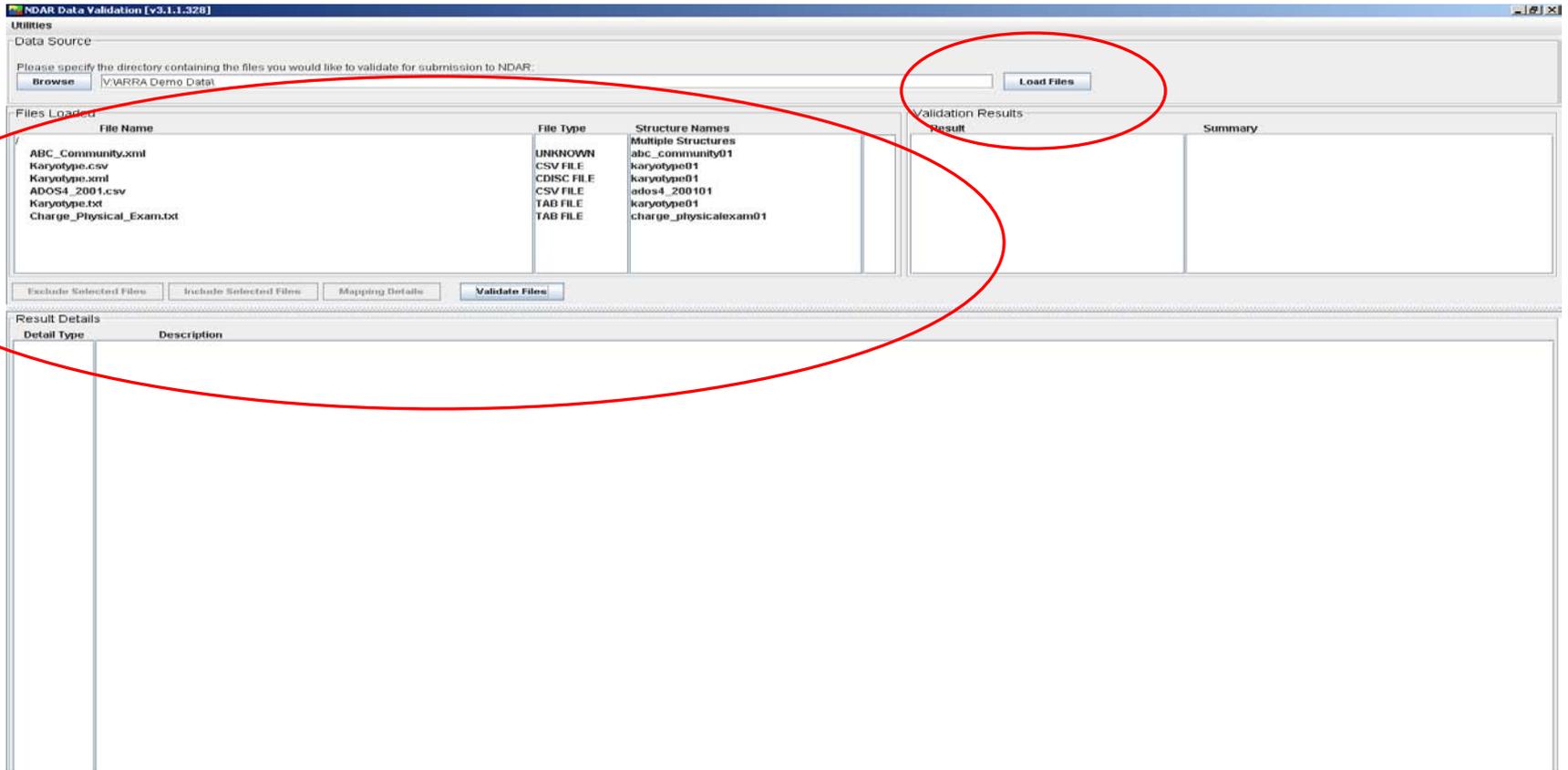
**Result Details**

Detail Type	Description

**Result Details**

Detail Type	Description

# Validation Tool – Load Files



NDAR Data Validation [v3.1.1.328]

Utilities

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

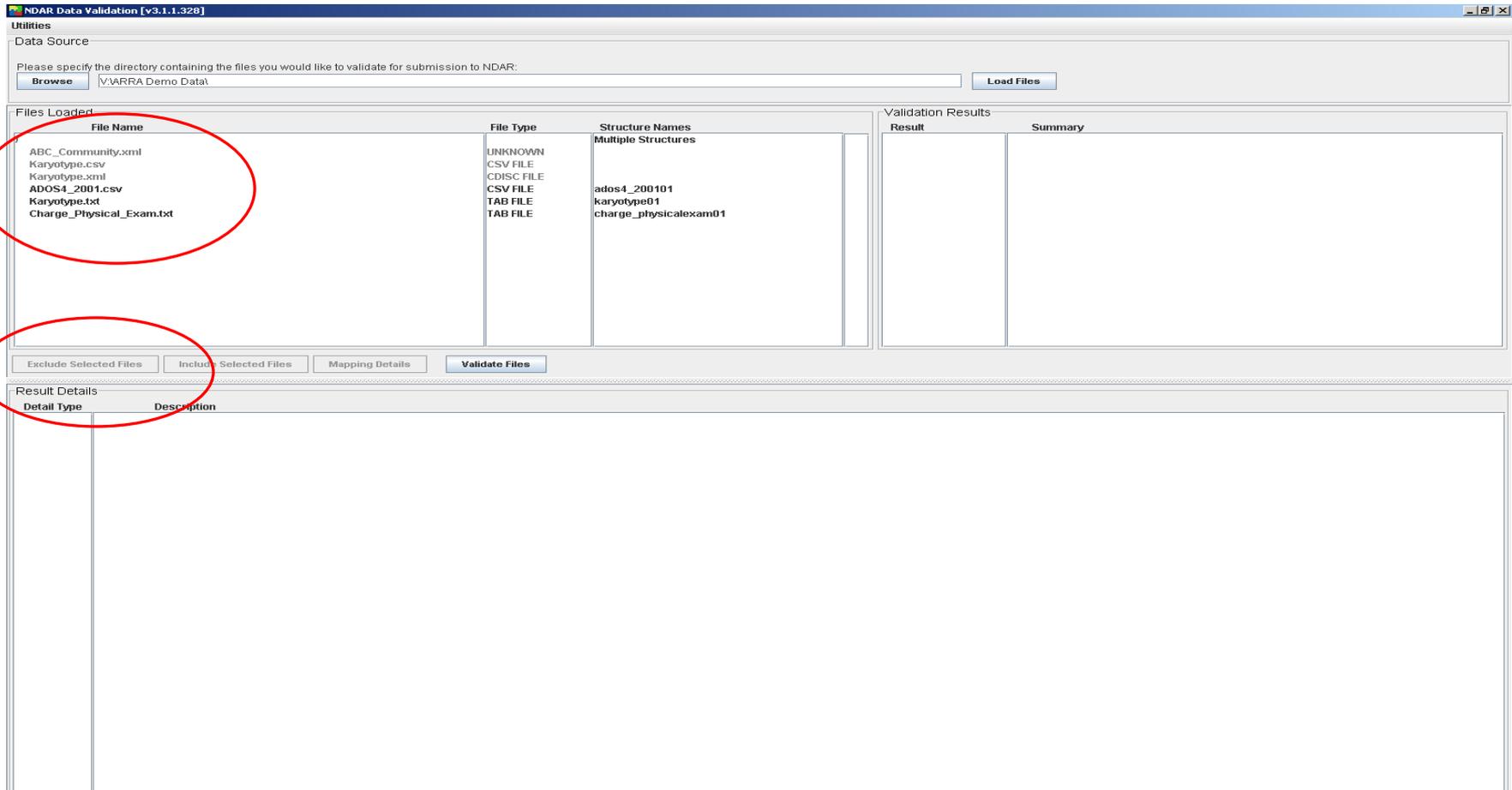
| \\\ARRA Demo Data

File Name	File Type	Structure Names	Validation Results	Summary
ABC_Community.xml	UNKNOWN	Multiple Structures abc_community01		
Karyotype.csv	CSV FILE	karyotype01		
Karyotype.xml	CDISC FILE	karyotype01		
ADOS4_2001.csv	CSV FILE	ados4_200101		
Karyotype.txt	TAB FILE	karyotype01		
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01		

Result Details

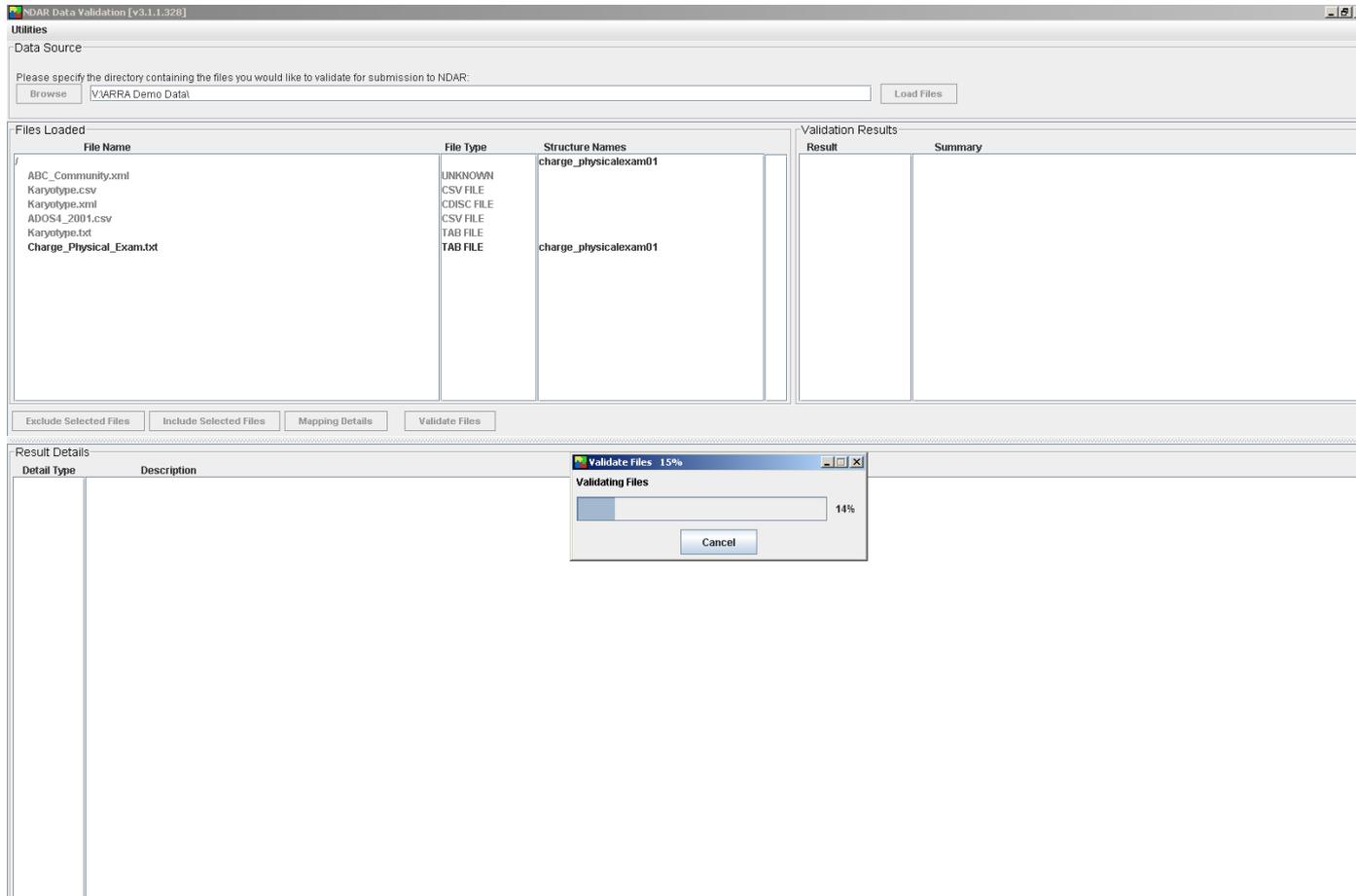
Detail Type	Description
-------------	-------------

# Validation Tool – Exclude Files


 The screenshot shows the NDAR Data Validation interface. At the top, there's a 'Data Source' section with a 'Browse' button and a text field containing 'V:\ARRA Demo Data', and a 'Load Files' button. Below this is a table titled 'Files Loaded' with columns for 'File Name', 'File Type', and 'Structure Names'. The table contains five rows of data. A red circle highlights the first row of the table. Below the table, there are buttons for 'Exclude Selected Files', 'Include Selected Files', 'Mapping Details', and 'Validate Files'. A second red circle highlights the 'Exclude Selected Files' button. At the bottom, there is a 'Result Details' section with columns for 'Detail Type' and 'Description', which is currently empty.

File Name	File Type	Structure Names
ABC_Community.xml	UNKNOWN	Multiple Structures
Karyotype.csv	CSV FILE	
Karyotype.xml	CDISC FILE	
ADOS4_2001.csv	CSV FILE	ados4_200101
Karyotype.txt	TAB FILE	karyotype01
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01

# Validation Tool – Validate Files



NDAR Data Validation [v3.1.1.328]

**Utilities**  
 Data Source  
 Please specify the directory containing the files you would like to validate for submission to NDAR:  
 Browse  Load Files

File Name	File Type	Structure Names
ADC_Community.xml	UNKNOWN	charge_physicalexam01
Karyotype.csv	CSV FILE	
Karyotype.xml	CDISC FILE	
ADOS4_2001.csv	CSV FILE	
Karyotype.txt	TAB FILE	
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01

Validation Results  

Result	Summary

Exclude Selected Files   Include Selected Files   Mapping Details   Validate Files

**Result Details**  

Detail Type	Description

Validate Files 15%  
 Validating Files  
 14%  
 Cancel

# Validation Tool – Validation Output with Errors

NDAR Data Validation [v3.1.1.328]

**Utilities**

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

N:\ARRA Demo Data\

---

**Files Loaded**

File Name	File Type	Structure Names	Validation Results
ABC_Community.xml	UNKNOWN	Multiple Structures	<b>Failed</b>
Karyotype.csv	CSV FILE		
Karyotype.xml	CDISC FILE		
ADOS4_2001.csv	CSV FILE		<b>Valid</b>
Karyotype.txt	TAB FILE	karyotype01	
<b>Charge_Physical_Exam.txt</b>	<b>TAB FILE</b>	charge_physicalexam01	<b>Failed</b>

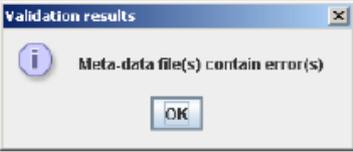
Validation Results Summary

Result	Summary
<b>Failed</b>	[3 errors + 1190 warnings]
<b>Valid</b>	
<b>Failed</b>	[3 errors + 1190 warnings]

---

**Result Details**

Detail Type	Description



Validation results dialog box showing: Meta-data file(s) contain error(s) [OK]

# Validation Tool – Read and Fix Errors

Files Loaded			Validation Results	
File Name	File Type	Structure Names	Result	Summary
ABC_Community.xml	UNKNOWN	Multiple Structures	Failed	[3 errors + 1190 warnings]
Karyotype.csv	CSV FILE			
Karyotype.xml	CDISC FILE			
ADOS4_2001.csv	CSV FILE			
Karyotype.txt	TAB FILE	karyotype01	Valid	
<b>Charge_Physical_Exam.txt</b>	<b>TAB FILE</b>	<b>charge_physicalexam01</b>	<b>Failed</b>	<b>[3 errors + 1190 warnings]</b>

Result Details	
Detail Type	Description
▲ Error	Rules: src_subject_id Data Element is missing and required
■ Error	Rules: Meta-data field "head_occiput" has an invalid value of "Nrmal" with an expected value range of "Flat;Normal;Prominent;NE"
■ Error	Rules: Meta-data field "skin_hair" has an invalid value of "Course" with an expected value range of "Fine;Coarse;Thick;Fragile;Kinky;Curly"
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
■ Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
■ Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.

# Validation Tool – Read and Fix Errors

## Result Details

Detail Type	Description
<b>Error</b>	Rules: src_subject_id Data Element is missing and required
<b>Error</b>	Rules: Meta-data field "head_occiput" has an invalid value of "Nrmal" with an expected value range of "Flat;Normal;Prominent;NE"
<b>Error</b>	Rules: Meta-data field "skin_hair" has an invalid value of "Course" with an expected value range of "Fine;Coarse;Thick;Fragile;Kinky;Curly"
Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.
Warning	You did not provide an entry for "weight_met" element. NDAR best practices recommend that you provide a value for this field.
Warning	You did not provide an entry for "weight_std" element. NDAR best practices recommend that you provide a value for this field.
Warning	No rule exists for Data Element Charge_physicalexam_eyes_irispattern
Warning	You did not provide an entry for "height_met" element. NDAR best practices recommend that you provide a value for this field.
Warning	You did not provide an entry for "height_std" element. NDAR best practices recommend that you provide a value for this field.



# Validation Tool – Read and Fix Errors

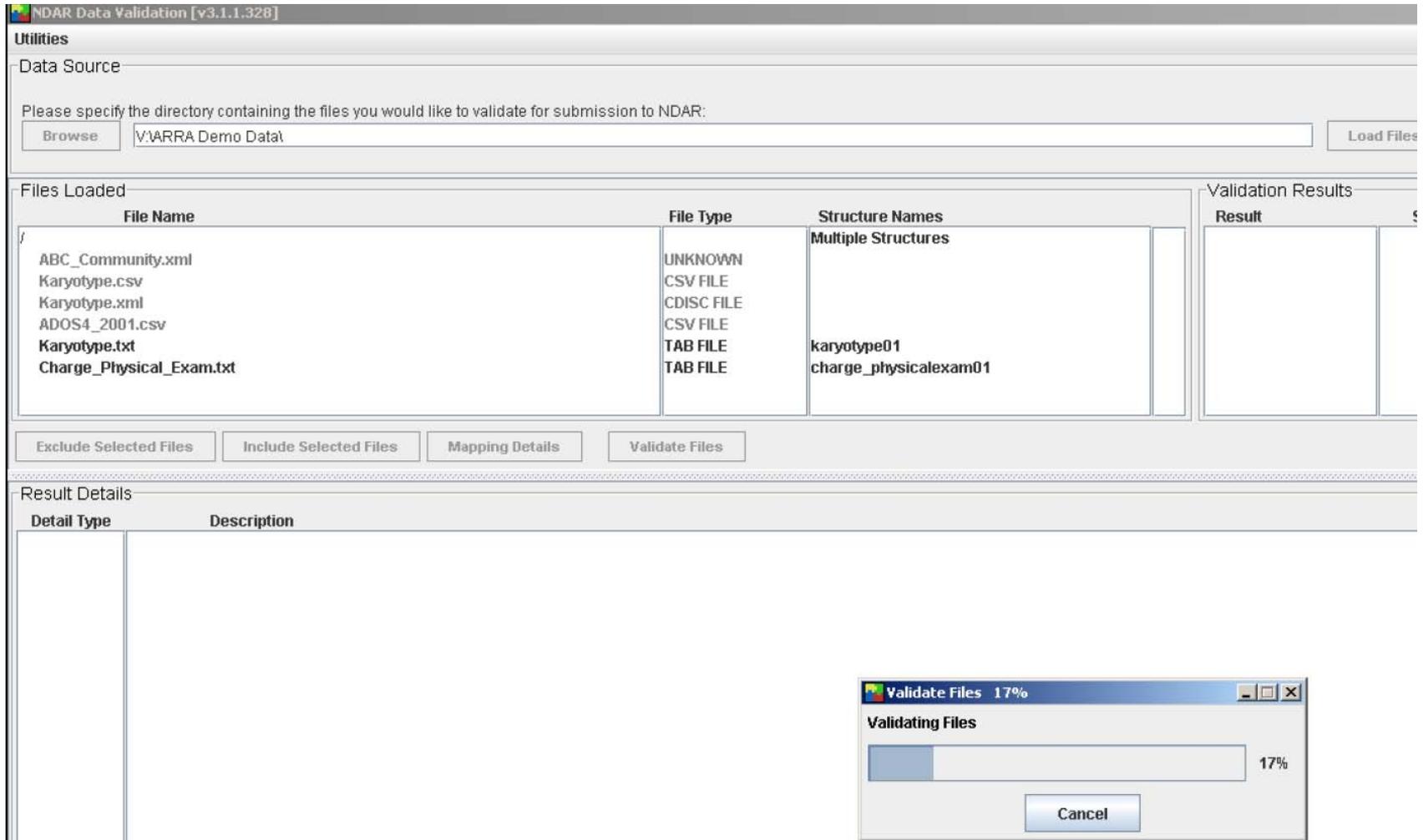
The screenshot shows a Notepad window with a list of clinical assessment data. A red circle highlights a row where the 'head\_occiput' field contains the value 'Nrmal'. A red arrow points from the number '#2' to this row. A second window on the right shows a zoomed-in view of the data, with the word 'Normal' highlighted in blue, indicating the correct expected value for that field.

#2

1. Rules: src\_subject\_id Data Element is missing and required
2. Rules: Meta-data field "head\_occiput" has an invalid value of "Nrmal" with an expected value range of "Flat;Normal;Prominent;NE"
3. Rules: Meta-data field "skin\_hair" has an invalid value of "Course" with an expected value range of "Fine;Coarse;Thick;Fragile;Kinky;Curly"



# Validation Tool – Validate Again



NDAR Data Validation [v3.1.1.328]

**Utilities**

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

Browse V:\ARRA Demo Data Load Files

**Files Loaded**

File Name	File Type	Structure Names	Validation Results
ABC_Community.xml	UNKNOWN	Multiple Structures	
Karyotype.csv	CSV FILE		
Karyotype.xml	CDISC FILE		
ADOS4_2001.csv	CSV FILE		
Karyotype.txt	TAB FILE	karyotype01	
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01	

Exclude Selected Files Include Selected Files Mapping Details Validate Files

**Result Details**

Detail Type	Description

**Validate Files 17%**

Validating Files

17%

Cancel

# Validation Tool – Validation Output with Warnings

**NDAR Data Validation [v3.1.1.328]**

**Utilities**

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

V:\ARRA Demo Data\

---

**Files Loaded**

File Name	File Type	Structure Names	Validation Results	Summary
ABC_Community.xml	UNKNOWN	Multiple Structures	Valid	[1190 warning]
Karyotype.csv	CSV FILE			
Karyotype.xml	CDISC FILE			
ADOS4_2001.csv	CSV FILE			
Karyotype.txt	TAB FILE	karyotype01	Valid	
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01	Valid	[1190 warning]

---

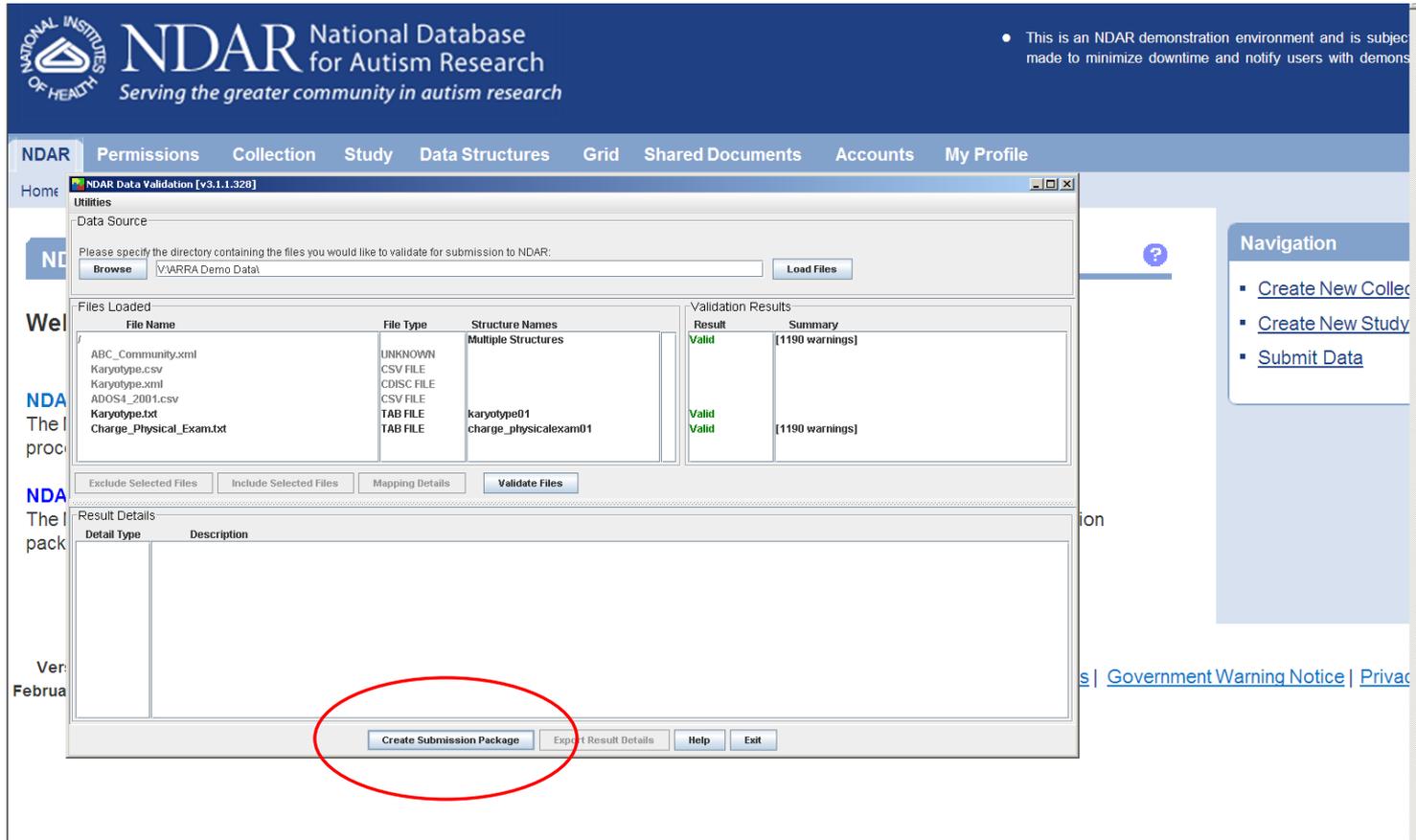
**Result Details**

Detail Type	Description

**Validation results** x

 All meta-data files valid

# Validation Tool – Create Submission Package



NDAR National Database for Autism Research  
 Serving the greater community in autism research

• This is an NDAR demonstration environment and is subject to change without notice. NDAR is made to minimize downtime and notify users with demonstrations.

NDAR | Permissions | Collection | Study | Data Structures | Grid | Shared Documents | Accounts | My Profile

Home | NDAR Data Validation [v3.1.1.328]

Utilities  
 Data Source  
 Please specify the directory containing the files you would like to validate for submission to NDAR:  
 Browse | VIARRA Demo Data | Load Files

Files Loaded			Validation Results	
File Name	File Type	Structure Names	Result	Summary
ABC_Community.xml	UNKNOWN	Multiple Structures	Valid	[1190 warnings]
Karyotype.csv	CSV FILE			
Karyotype.xml	CDISC FILE			
ADOS4_2001.csv	CSV FILE			
Karyotype.txt	TAB FILE	karyotype01	Valid	
Charge_Physical_Exam.txt	TAB FILE	charge_physicalexam01	Valid	[1190 warnings]

Exclude Selected Files | Include Selected Files | Mapping Details | Validate Files

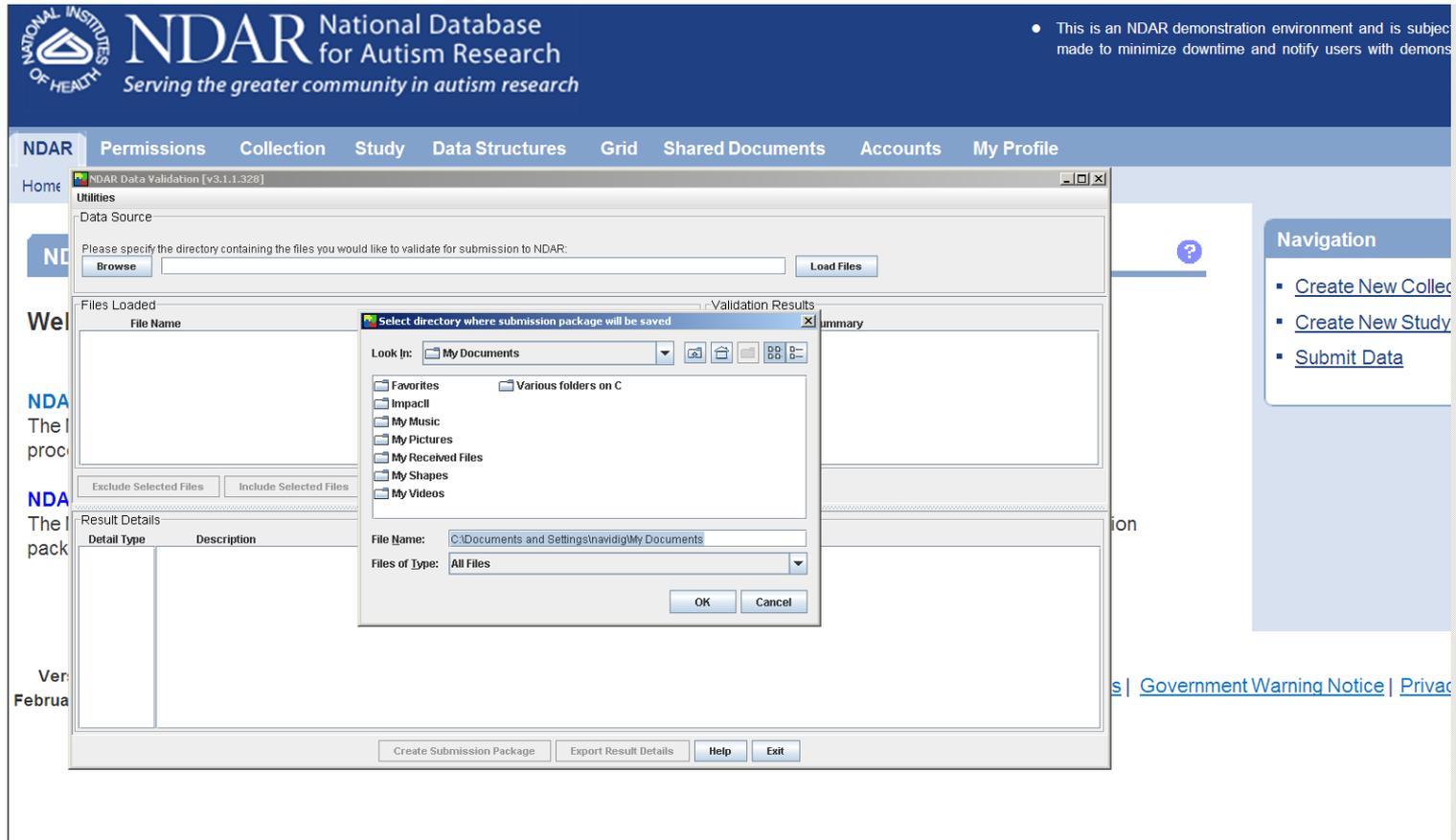
Result Details  
 Detail Type | Description

Create Submission Package | Export Result Details | Help | Exit

Navigation  
 Create New Collection  
 Create New Study  
 Submit Data

[Government Warning Notice](#) | [Privacy Policy](#)

# Validation Tool – Create Submission Package



This is an NDAR demonstration environment and is subject to change without notice. We are made to minimize downtime and notify users with demonstrations.

NDAR Data Validation [v3.1.1.328]

Utilities

Data Source

Please specify the directory containing the files you would like to validate for submission to NDAR:

Files Loaded

File Name	Description
-----------	-------------

Result Details

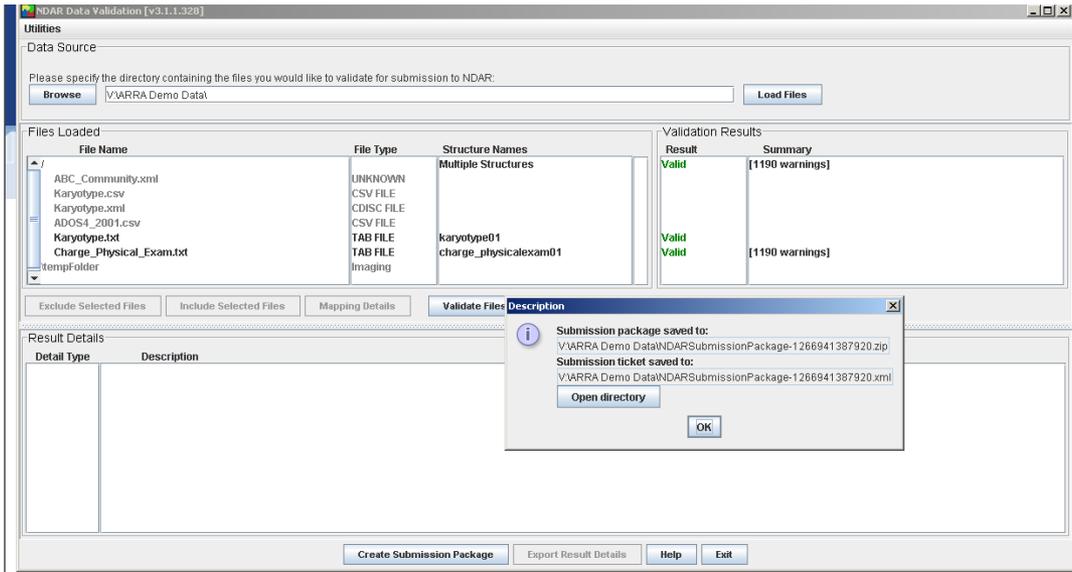
Detail Type	Description
-------------	-------------

Navigation

- [Create New Collection](#)
- [Create New Study](#)
- [Submit Data](#)

[Government Warning Notice](#) | [Privacy Policy](#)

# Validation Tool – Submission Package Created



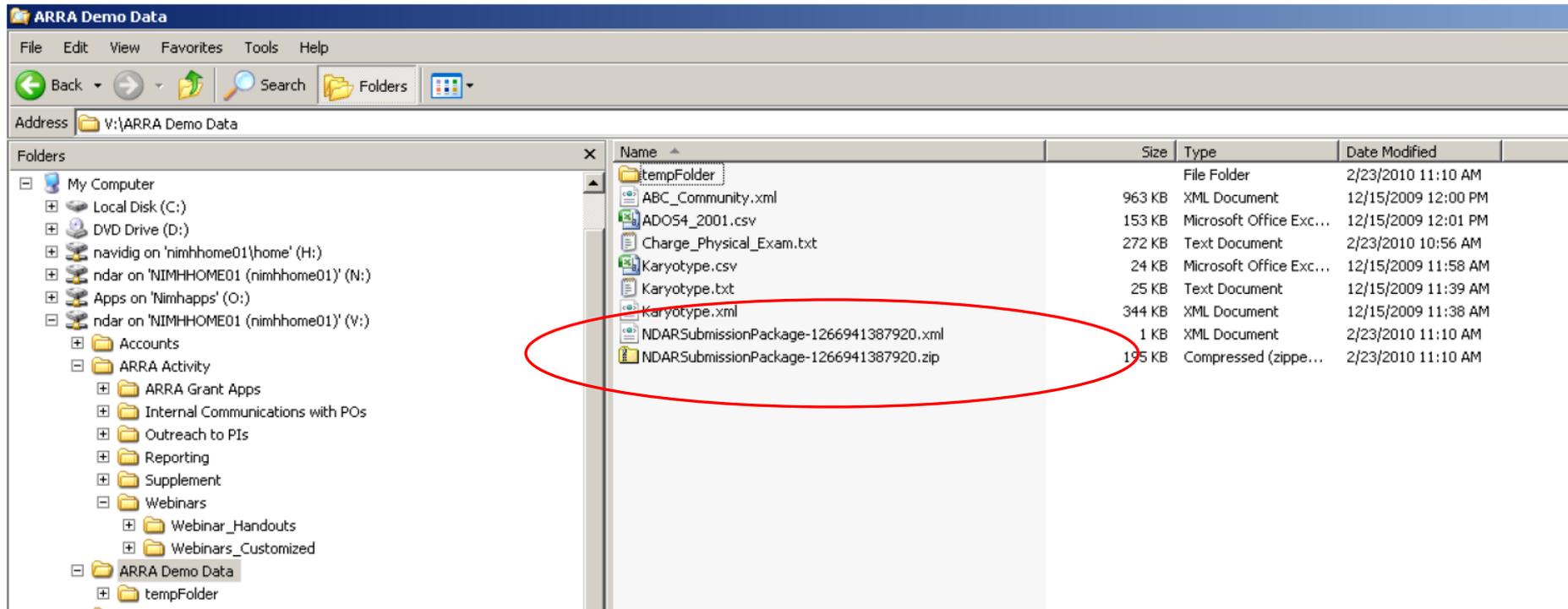
NDAR demonstration environment and is subject to change without notice. Please contact the NDAR support team to minimize downtime and notify users with demonstrations.

**Navigation**

- [Create New Collection](#)
- [Create New Study](#)
- [Submit Data](#)

# Validation Tool – Submission Package

- Submission Package process creates two files
  - Data for Submission
  - Ticket file for authentication of data validation



# NDAR Data Process



Researcher

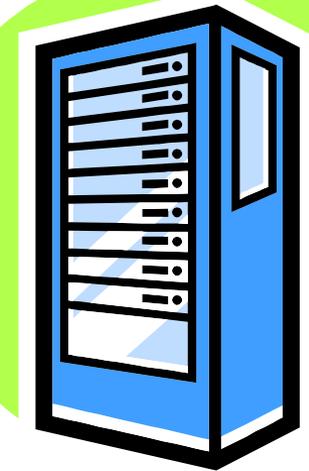
Format

Collect

Validate

Submit

Share



NDAR

# Submission Process – Navigate to Collection

**NOTICE**  
This is an NDAR demonstration environment and is subject to periodic downtime with little or no warning. All efforts will be made to minimize downtime and notify users with demonstration accounts prior to any system change.

Welcome, **Gretchen Navidi** | [Logout](#)

[NDAR](#) | [Permissions](#) | **[Collection](#)** | [Study](#) | [Data Structures](#) | [Grid](#) | [Shared Documents](#) | [Accounts](#) | [My Profile](#)

My Collections

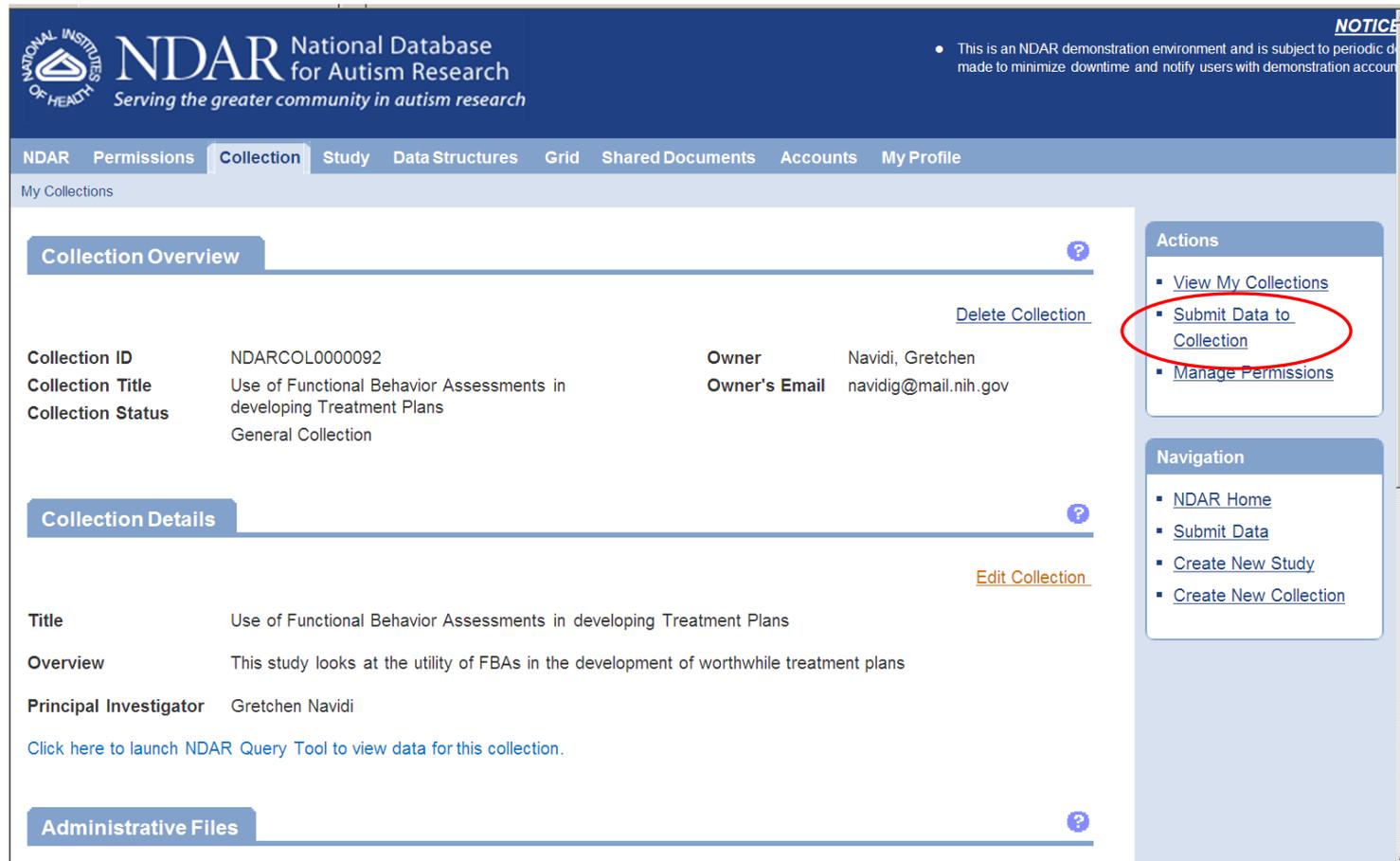
**My Collections** ?

ID	Collection Title	Owner	Institution	Data	Permission
NDARCOL0000089	<a href="#">AGRE_Test_Collection1</a>	Berzins, Reinis	AUTISM SPEAKS, INC.	<b>C</b>	Query
NDARCOL0000087	<a href="#">Regressive Autism in 3 to 5 Year Old Boys</a>	Hall, Dan	UNIVERSITY OF CALIFORNIA DAVIS	<b>C</b>	Query
NDARCOL0000094	<a href="#">Test Collection to Explore Workflow</a>	Mead, Kristin			Query
NDARCOL0000086	<a href="#">Test Collections</a>	Data Drop, NDAR		<b>CI</b>	Query
NDARCOL0000071	<a href="#">CPEA/STAART Data warehouse</a>	Robinson, Fay			Query
NDARCOL0000092	<a href="#">Use of Functional Behavior Assessments in developing Treatment Plans</a>	Navidi, Gretchen			Administrator
NDARCOL0000088	<a href="#">IAN_Test_Collection</a>	Nestle, Jay			Query
NDARCOL0000090	<a href="#">Mapping autism risk loci using genetic linkage</a>	Mead, Kristin			Query
NDARCOL0000093	<a href="#">Genomics</a>			<b>G</b>	Query
NDARCOL0000095	<a href="#">newtest</a>	Nestle, Jay			Query
NDARCOL0000070	<a href="#">CPEA/STAART Data Warehouse</a>	Robinson, Fay		<b>C</b>	Query
NDARCOL0000091	<a href="#">Early intervention study with ESDM</a>	Mead, Kristin			Query

**Navigation**

- [NDAR Home](#)
- [Submit Data](#)
- [Create New Study](#)
- [Create New Collec](#)

# Submission Process – Submit Data to Collection



**NDAR** National Database for Autism Research  
Serving the greater community in autism research

**NOTICE**  
• This is an NDAR demonstration environment and is subject to periodic downtime made to minimize downtime and notify users with demonstration account

NDAR Permissions **Collection** Study Data Structures Grid Shared Documents Accounts My Profile

My Collections

**Collection Overview**

[Delete Collection](#)

<b>Collection ID</b>	NDARCOL0000092	<b>Owner</b>	Navidi, Gretchen
<b>Collection Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans	<b>Owner's Email</b>	navidig@mail.nih.gov
<b>Collection Status</b>	General Collection		

**Collection Details**

[Edit Collection](#)

<b>Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans
<b>Overview</b>	This study looks at the utility of FBAs in the development of worthwhile treatment plans
<b>Principal Investigator</b>	Gretchen Navidi

[Click here to launch NDAR Query Tool to view data for this collection.](#)

**Administrative Files**

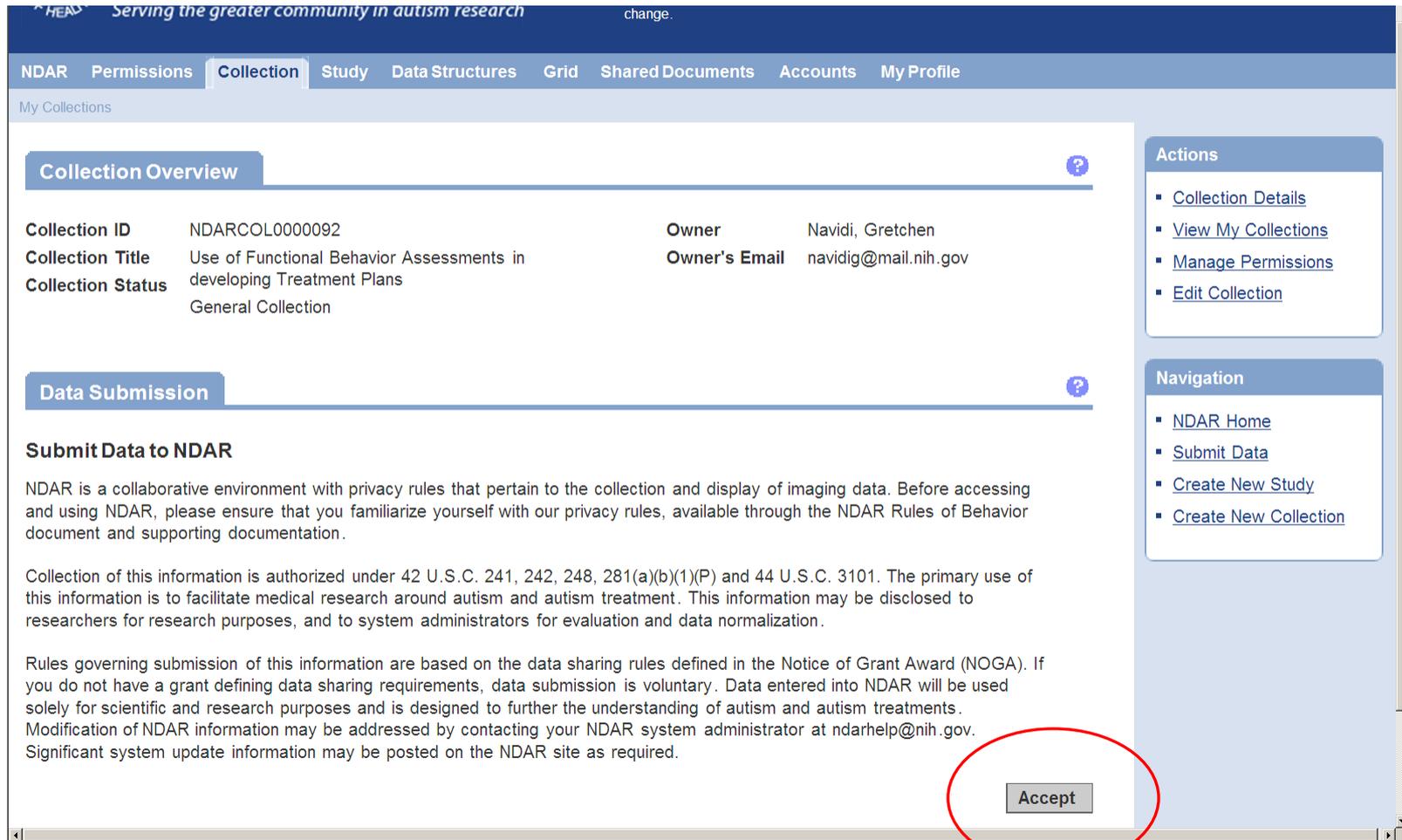
**Actions**

- [View My Collections](#)
- [Submit Data to Collection](#)
- [Manage Permissions](#)

**Navigation**

- [NDAR Home](#)
- [Submit Data](#)
- [Create New Study](#)
- [Create New Collection](#)

# Submission Process – Accept Submission Rules



Serving the greater community in autism research

change.

NDAR Permissions **Collection** Study Data Structures Grid Shared Documents Accounts My Profile

My Collections

**Collection Overview**

<b>Collection ID</b>	NDARCOL0000092	<b>Owner</b>	Navidi, Gretchen
<b>Collection Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans	<b>Owner's Email</b>	navidig@mail.nih.gov
<b>Collection Status</b>	General Collection		

**Data Submission**

**Submit Data to NDAR**

NDAR is a collaborative environment with privacy rules that pertain to the collection and display of imaging data. Before accessing and using NDAR, please ensure that you familiarize yourself with our privacy rules, available through the NDAR Rules of Behavior document and supporting documentation.

Collection of this information is authorized under 42 U.S.C. 241, 242, 248, 281(a)(b)(1)(P) and 44 U.S.C. 3101. The primary use of this information is to facilitate medical research around autism and autism treatment. This information may be disclosed to researchers for research purposes, and to system administrators for evaluation and data normalization.

Rules governing submission of this information are based on the data sharing rules defined in the Notice of Grant Award (NOGA). If you do not have a grant defining data sharing requirements, data submission is voluntary. Data entered into NDAR will be used solely for scientific and research purposes and is designed to further the understanding of autism and autism treatments. Modification of NDAR information may be addressed by contacting your NDAR system administrator at ndarhelp@nih.gov. Significant system update information may be posted on the NDAR site as required.

**Accept**

**Actions**

- Collection Details
- View My Collections
- Manage Permissions
- Edit Collection

**Navigation**

- NDAR Home
- Submit Data
- Create New Study
- Create New Collection

# Submission Process – Data Submission Details

this information is to facilitate medical research around autism and autism treatment. This information may be disclosed to researchers for research purposes, and to system administrators for evaluation and data normalization.

Rules governing submission of this information are based on the data sharing rules defined in the Notice of Grant Award (NOGA). If you do not have a grant defining data sharing requirements, data submission is voluntary. Data entered into NDAR will be used solely for scientific and research purposes and is designed to further the understanding of autism and autism treatments. Modification of NDAR information may be addressed by contacting your NDAR system administrator at [ndarhelp@nih.gov](mailto:ndarhelp@nih.gov). Significant system update information may be posted on the NDAR site as required.

Accept

## Data Submission Details

Please enter the following information. Fields marked with an asterisk (\*) are required.

Please upload the Submission **Ticket** file\*

Please upload the Submission **Zip** file\*

Title

Abstract

[Cancel](#)

Version 3.0  
February 23, 2010

[About NDAR](#) | [Contact Us](#) | [Government Warning Notice](#) | [Privacy Policy](#)



# Submission Process – Browse for Files

## Hint

- Ticket File = .xml
- Zip File = .zip

### Data Submission Details

Please enter the following information. Fields marked with an asterisk (\*) are required.

Please upload the Submission **Ticket file\***

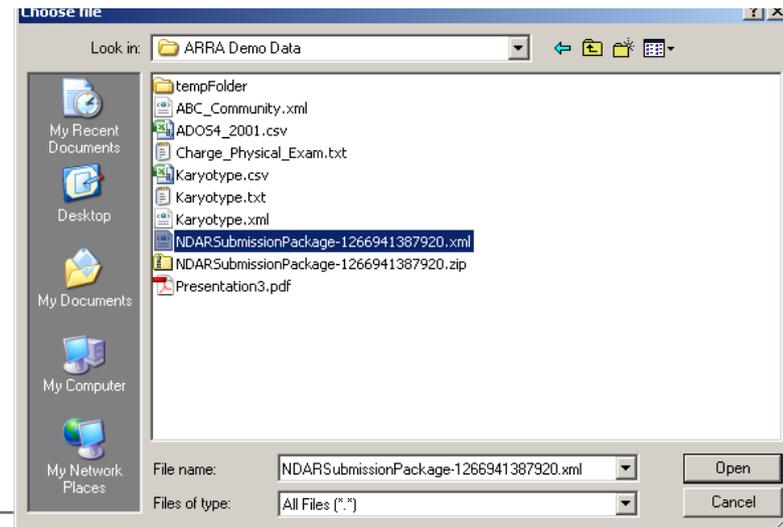
 

Please upload the Submission **Zip file\***

**Title**

**Abstract**



# Submission Process – Add Details and Submit

This information is to facilitate medical research around autism and autism treatment. This information may be disclosed to researchers for research purposes, and to system administrators for evaluation and data normalization.

Rules governing submission of this information are based on the data sharing rules defined in the Notice of Grant Award (NOGA). If you do not have a grant defining data sharing requirements, data submission is voluntary. Data entered into NDAR will be used solely for scientific and research purposes and is designed to further the understanding of autism and autism treatments. Modification of NDAR information may be addressed by contacting your NDAR system administrator at [ndarhelp@nih.gov](mailto:ndarhelp@nih.gov). Significant system update information may be posted on the NDAR site as required.

Accept

## Data Submission Details

Please enter the following information. Fields marked with an asterisk (\*) are required.

Please upload the Submission **Ticket** file\*

V:\ARRA Demo Data\ND

Please upload the Submission **Zip** file\*

V:\ARRA Demo Data\ND

**Title**

**Abstract**

[Cancel](#)

Version 3.0  
February 23, 2010

[About NDAR](#) | [Contact Us](#) | [Government Warning Notice](#) | [Privacy Policy](#)



# Submission Process – Successful Submission


**NDAR** National Database for Autism Research  
 Serving the greater community in autism research

• This is an NDAR demonstration environment and is subject to periodic downtime made to minimize downtime and notify users with demonstration account

[NDAR](#) [Permissions](#) **Collection** [Study](#) [Data Structures](#) [Grid](#) [Shared Documents](#) [Accounts](#) [My Profile](#)

My Collections

✔ The data has been submitted successfully. It will be available for querying in approximately 2 hours.

**Collection Overview**

<b>Collection ID</b>	NDARCOL0000092	<b>Owner</b>	Navidi, Gretchen
<b>Collection Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans	<b>Owner's Email</b>	navidig@mail.nih.gov
<b>Collection Status</b>	General Collection		

**Data Submission**

<b>Title</b>	CHARGE Physical Exam Submission Jan 2010
<b>Abstract</b>	Submission of extensive set of data on over 250 subjects from the CHARGE Physical Exam form. Submitted Jan 2010.
<b>Clinical Assessments</b>	186

**Submission Files**

<b>Validated NDAR Files</b>	<b>Other Submitted Files</b>
data\Charge_Physical_Exam.txt	
data\Karyotype.txt	

**Actions**

- [Collection Details](#)
- [View My Collections](#)
- [Manage Permissions](#)
- [Edit Collection](#)

**Navigation**

- [NDAR Home](#)
- [Submit Data](#)
- [Create New Study](#)
- [Create New Collection](#)

# Submission Process – Checking the Submission

This is an NDAR demonstration environment and is subject to periodic downtime with little or no warning. All efforts will be made to minimize downtime and notify users with demonstration accounts prior to any system change.

Welcome, **Gretchen Navidi** | Logout

[NDAR](#) | [Permissions](#) | **Collection** | [Study](#) | [Data Structures](#) | [Grid](#) | [Shared Documents](#) | [Accounts](#) | [My Profile](#)

My Collections

**My Collections** ?

ID	Collection Title	Owner	Institution	Data	Permission
NDARCOL0000089	<a href="#">AGRE_Test_Collection1</a>	Berzins, Reinis	AUTISM SPEAKS, INC.	<b>C</b>	Query
NDARCOL0000087	<a href="#">Regressive Autism in 3 to 5 Year Old Boys</a>	Hall, Dan	UNIVERSITY OF CALIFORNIA DAVIS	<b>C</b>	Query
NDARCOL0000094	<a href="#">Test Collection to Explore Workflow</a>	Mead, Kristin			Query
NDARCOL0000086	<a href="#">Test Collections</a>	Data Drop, NDAR		<b>CI</b>	Query
NDARCOL0000071	<a href="#">CPEA/STAART Data Warehouse</a>	Robinson, Fay			Query
NDARCOL0000092	<a href="#">Use of Functional Behavior Assessments in developing Treatment Plans</a>	Navidi, Gretchen		<b>C</b>	Administrator
NDARCOL0000088	<a href="#">IAN_Test_Collection</a>	Nestle, Jay			Query
NDARCOL0000090	<a href="#">Mapping autism risk loci using genetic linkage</a>	Mead, Kristin			Query
NDARCOL0000093	<a href="#">Genomics</a>			<b>G</b>	Query
NDARCOL0000095	<a href="#">newtest</a>	Nestle, Jay			Query
NDARCOL0000070	<a href="#">CPEA/STAART Data Warehouse</a>	Robinson, Fay		<b>C</b>	Query
NDARCOL0000091	<a href="#">Early intervention study with ESDM</a>	Mead, Kristin			Query

**Navigation**

- [NDAR Home](#)
- [Submit Data](#)
- [Create New Study](#)
- [Create New Collection](#)

Version 3.0  
Februarv 23, 2010

[About NDAR](#) | [Contact Us](#) | [Government Warning Notice](#) | [Privacy Policy](#)





# Submission Process – Checking the Submission



**NDAR** National Database for Autism Research  
Serving the greater community in autism research

**NOTICE**

- This is an NDAR demonstration environment and is subject to periodic downtime with little or no warning. All efforts will be made to minimize downtime and notify users with demonstration accounts prior to any system change.

Welcome, **Gretchen Navidi** | [Logout](#)

[NDAR](#) [Permissions](#) **[Collection](#)** [Study](#) [Data Structures](#) [Grid](#) [Shared Documents](#) [Accounts](#) [My Profile](#)

My Collections

Collection Overview

?

<b>Collection ID</b>	NDARCOL0000092	<b>Owner</b>	Navidi, Gretchen
<b>Collection Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans	<b>Owner's Email</b>	navidig@mail.nih.gov
<b>Collection Status</b>	General Collection		

Collection Details

?

[Edit Collection](#)

<b>Title</b>	Use of Functional Behavior Assessments in developing Treatment Plans
<b>Overview</b>	This study looks at the utility of FBAs in the development of worthwhile treatment plans
<b>Principal Investigator</b>	Gretchen Navidi

Click here to launch NDAR Query Tool to view data for this collection.

Administrative Files

?

Actions

- [View My Collections](#)
- [Submit Data to Collection](#)
- [Manage Permissions](#)

Navigation

- [NDAR Home](#)
- [Submit Data](#)
- [Create New Study](#)
- [Create New Collection](#)

# Submission Process – Checking the Submission



[Click here to launch NDAR Query Tool to view data for this collection.](#)

## Administrative Files



[Edit Collection](#)

File Name	File Type	Expiration Date
<a href="#">ics test template.pdf</a>	Data Submission Agreement	31-Dec-2010

## Supporting Documentation



[Edit Collection](#)

File Name	File Type	File Description
To add files, please upload one or more files by clicking on Edit Collection.		

## Submissions



[Submit Data](#)

Dataset ID	Dataset Title	Dataset Type	Dataset Status	Submission Date	Submission ID
186	<a href="#">CHARGE Physical Exam Submission Jan 2010</a>	Clinical Assessments	Private	23-Feb-2010	162

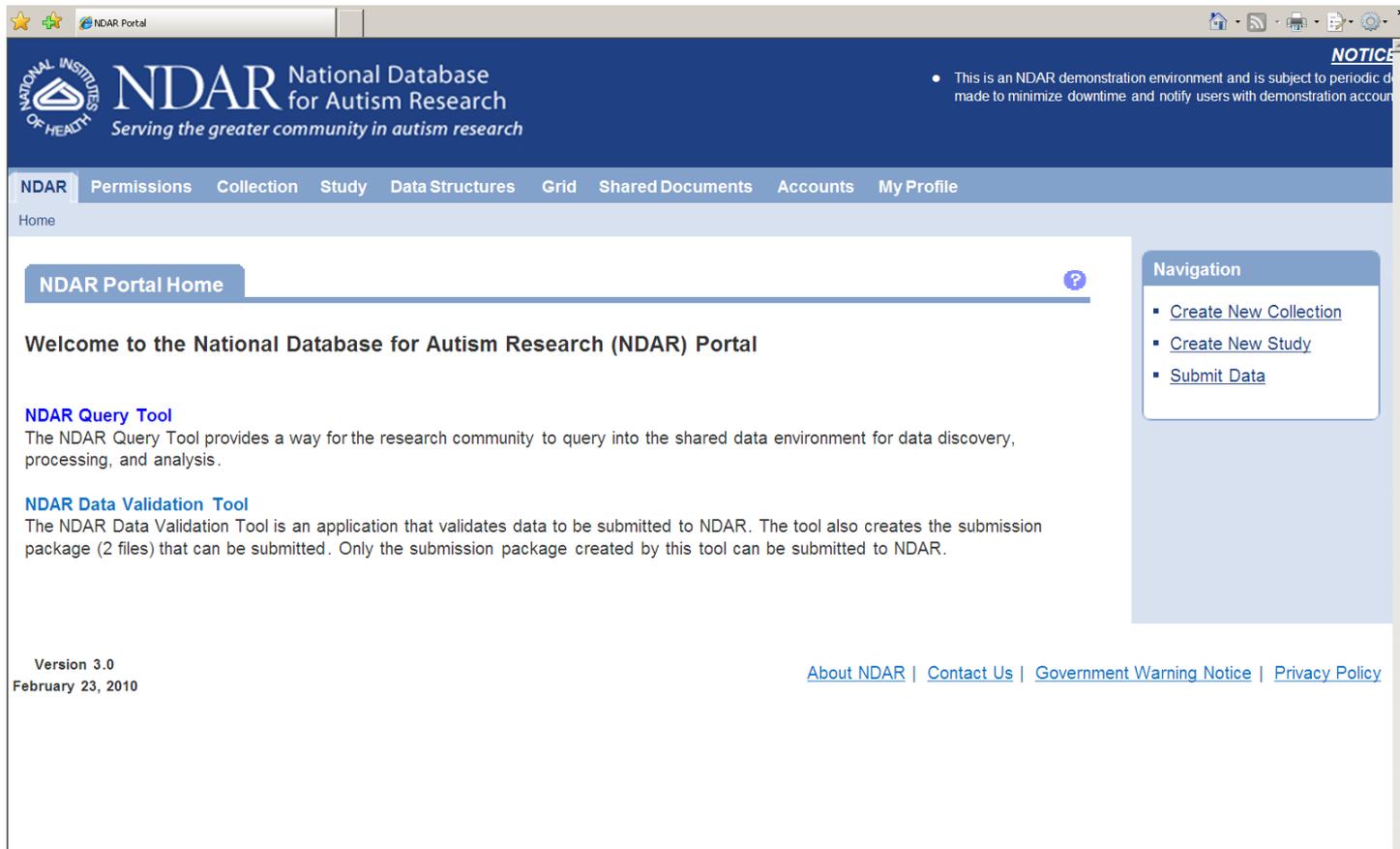


Version 3.0  
February 23, 2010

[About NDAR](#) | [Contact Us](#) | [Government Warning Notice](#) | [Privacy Policy](#)

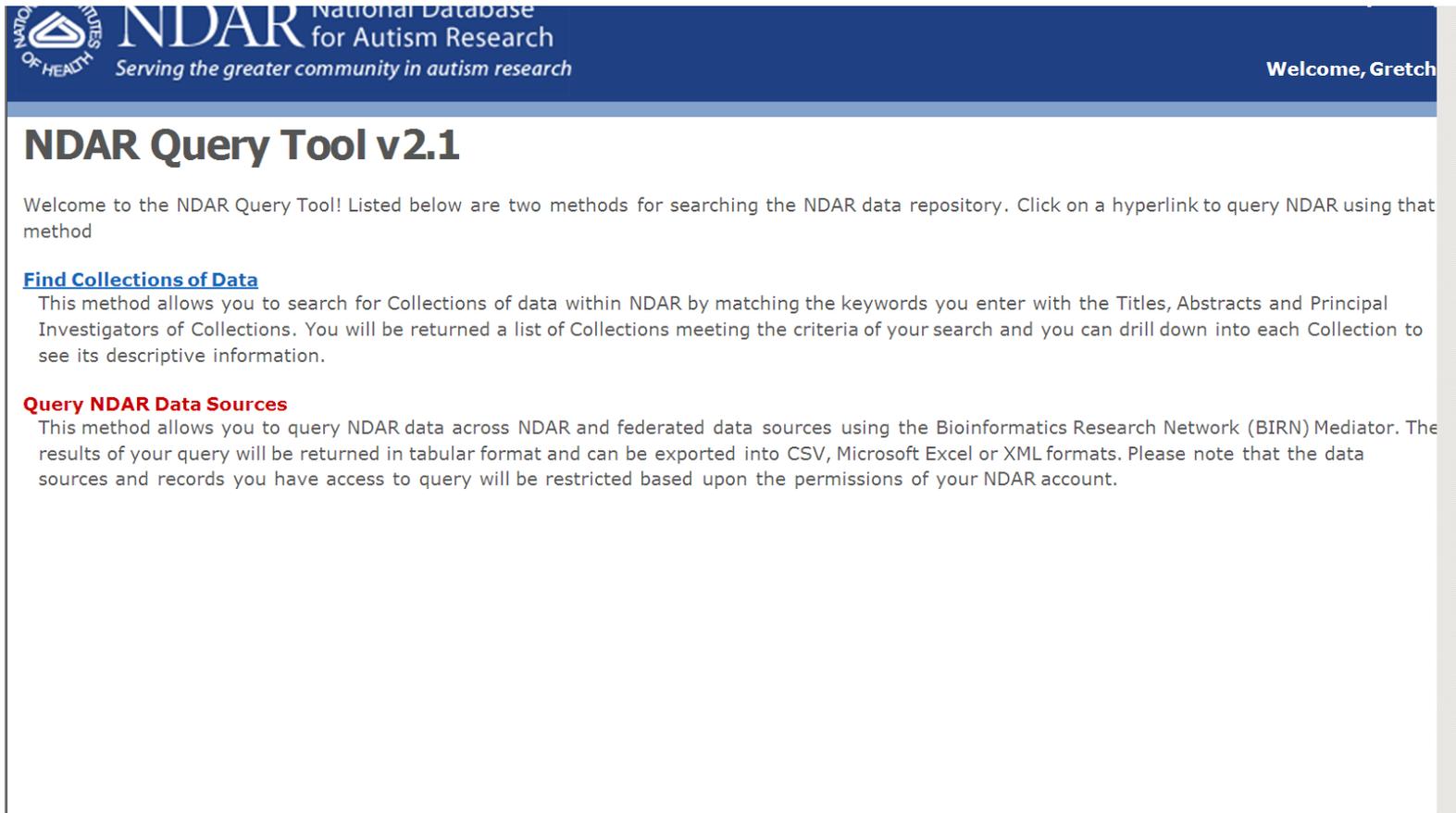


# Submission Process – Checking the Submission



The screenshot shows the NDAR Portal Home page. At the top left is the NIH logo and the text "NDAR National Database for Autism Research". A navigation bar contains links for "Permissions", "Collection", "Study", "Data Structures", "Grid", "Shared Documents", "Accounts", and "My Profile". A "NOTICE" box in the top right corner states: "This is an NDAR demonstration environment and is subject to periodic downtime made to minimize downtime and notify users with demonstration account". The main content area features a "Welcome to the National Database for Autism Research (NDAR) Portal" message. Below this are two sections: "NDAR Query Tool" and "NDAR Data Validation Tool", each with a brief description of their functions. A "Navigation" sidebar on the right lists "Create New Collection", "Create New Study", and "Submit Data". At the bottom left, it says "Version 3.0 February 23, 2010". At the bottom right, there are links for "About NDAR", "Contact Us", "Government Warning Notice", and "Privacy Policy".

# Submission Process – Checking the Submission



The screenshot shows the NDAR Query Tool v2.1 interface. At the top left is the NDAR logo with the text 'National Database for Autism Research' and 'Serving the greater community in autism research'. At the top right, it says 'Welcome, Gretch'. The main heading is 'NDAR Query Tool v2.1'. Below this, a welcome message states: 'Welcome to the NDAR Query Tool! Listed below are two methods for searching the NDAR data repository. Click on a hyperlink to query NDAR using that method'. There are two sections: 'Find Collections of Data' (underlined in blue) and 'Query NDAR Data Sources' (bolded in red). The 'Find Collections of Data' section explains that it allows searching for data collections by keywords and provides a list of results to drill down into. The 'Query NDAR Data Sources' section explains that it allows querying NDAR and federated data sources using the BIRN Mediator, with results returned in tabular format and exportable to CSV, Excel, or XML.

# Submission Process – Checking the Submission



## 1. Select Data Sources ?

The NDAR data query tool provides a mechanism to access data stored within the NDAR shared data repository. Select the fields, and inclusion/exclusion criteria to obtain a set of results matching the input parameters.

**Note:** Query execution may take several minutes. Please do not click the [Submit Query] button more than once.

[Load Query From File](#)

[Query by Collection](#) | [Query by Type](#) | [Query by Study](#) ?

### Data Source

### Description

- AGRE\_Test\_Collection1
- Genomics
- Regressive Autism in 3 to 5 Year Old Boys
- Test Collections
- Use of Functional Behavior Assessments in developing Treatment Plans
  - Clinical Assessments
    - 186 - CHARGE Physical Exam Submission Jan 2010

# Submission Process – Checking the Submission

## 2. Select Output Fields and Criteria ?

Output Field	Type	Description <span style="color: blue;">?</span>
<input checked="" type="checkbox"/> Karyotype (V1.0)		
<input checked="" type="checkbox"/> DATASET_ID	number	DATASET_ID
<input checked="" type="checkbox"/> subjectkey	string	The NDAR Global Unique Identifier (GUID) for subjects which identifies a subject in NDAR
<input checked="" type="checkbox"/> src_subject_id	string	The site's subject identification
<input checked="" type="checkbox"/> interview_age	number	Interview Age
<input checked="" type="checkbox"/> comments_misc	string	"Miscellaneous comments on study, interview, methodology relevant to this form data "
<input checked="" type="checkbox"/> genetic_test	string	Genetic Testing Performed
<input checked="" type="checkbox"/> genetic_result	string	Any abnormal result
<input checked="" type="checkbox"/> karyo_test	string	KaryoType performed
<input checked="" type="checkbox"/> karyo_result	string	Karyotype result
<input checked="" type="checkbox"/> karyo_comment	string	Comment
<input checked="" type="checkbox"/> fragile_test	string	Fragile X testing performed
<input checked="" type="checkbox"/> fragile_result	string	Fragile X result
<input checked="" type="checkbox"/> fragile_comment	string	Comment
<input checked="" type="checkbox"/> dup_test	string	15Q Duplication testing
<input checked="" type="checkbox"/> dup_result	string	15Q Duplication testing result
<input checked="" type="checkbox"/> dup_comment	string	Comment
<input checked="" type="checkbox"/> mecpc_analysis	string	MECP2 Mutation analysis
<input checked="" type="checkbox"/> mecpc_result	string	MECP2 Result
<input checked="" type="checkbox"/> other_test	string	Other testing performed
<input checked="" type="checkbox"/> other_comment	string	Comment

Cl

# Submission Process – Checking the Submission

## 3. Query Results ?

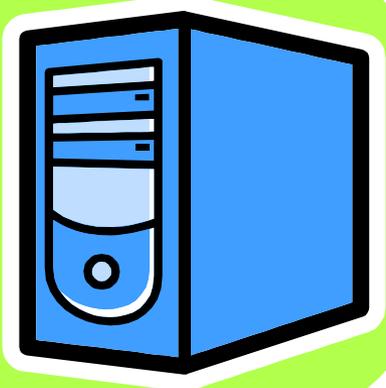
**Note:** When attempting to add subjects to a study, the system will not allow the addition of any subjects unless all study members have access to all associated data sets. Study members are users with "Read-Only" or "Administrator" access to the study.

238 items found, displaying 1 to 20. [First/Prev] 1, 2, 3, 4, 5, 6, 7, 8 [Next/Last]

<< Back
Start Over

<input type="checkbox"/>	ndarx_ca_karyotype01.DATASET_ID DATASET_ID	ndarx_ca_karyotype01.subjectkey The NDAR Global Unique Identifier (GUID) for subjects which identifies a subject in NDAR	ndarx_ca_karyotype01.src_subject_id The site's subject identification	ndarx_ca_karyotype01.interview_age Interview Age
<input type="checkbox"/>	186	NDARDEMONA437NZR	6416975	79
<input type="checkbox"/>	186	NDARDEMOHC886YRY	6413698	12
<input type="checkbox"/>	186	NDARDEMOTU644MR4	6415292	52
<input type="checkbox"/>	186	NDARDEMOLT801KV5	6414965	20
<input type="checkbox"/>	186	NDARDEMOJN414URE	6419368	35
<input type="checkbox"/>	186	NDARDEMOHE505JLD	6415177	57
<input type="checkbox"/>	186	NDARDEMOBE179EUK	6416446	13
<input type="checkbox"/>	186	NDARDEMOPF645FC8	6416980	31
<input type="checkbox"/>	186	NDARDEMOLL178WN1	6415439	18
<input type="checkbox"/>	...	.....	.....	--

# NDAR Data Process



Researcher

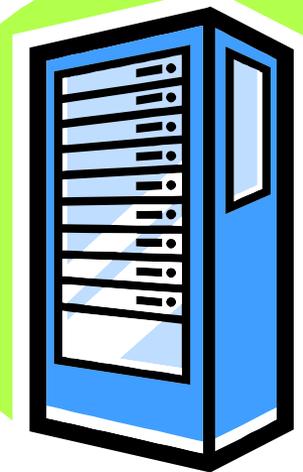
Format

Collect

Validate

Submit

Share



NDAR

# Webinars – Pre and Post Submission

## ■ Data Submission Planning

- Consenting participants for data-sharing with NDAR
- Generating Global Unique IDentifiers (GUIDs) for research participants
- Review of [NDAR Data-Sharing Checklist](#) [ PDF 180 KB ]

## ■ Data Formatting and Validation

- Introduction to NDAR data structures and codebooks
- Demonstration of the NDAR Data Validation Tool

## ■ Data-Sharing and Collaboration

- Making research data and supporting documentation available to the NDAR community
- Overview of NDAR's Ongoing Study capability

# Webinars - Submit Data to NDAR

## ■ Data Submission – Genomics Data

- Step-by-step procedures for submitting Genomics data
- Demonstration of the NDAR Data Validation Tool

## ■ Data Submission – Clinical Assessment Data

- Step-by-step procedures for submitting Clinical Assessment data
- Demonstration of the NDAR Data Validation Tool

## ■ Data Submission – Imaging Data

- Step-by-step procedures for submitting Imaging data
- Demonstration of the NDAR Data Validation Tool

# NDAR Technical Assistance

- E-mail: [ndarhelp@mail.nih.gov](mailto:ndarhelp@mail.nih.gov)
- Web site: <http://ndar.nih.gov>
  - Standard Operating Procedures (Policy & Procedures page)
  - Webinars (Training page)
  - Online Tutorials (Training page, Spring 2010)
- Listservs: <http://ndar.nih.gov/ndarpublicweb/Listserv.go>
  - **NDAR General:** System enhancements, Web updates, training schedules, meetings and special events
  - **NDAR Data:** Updates to Data Dictionary and codebooks
- Demonstration Environment: <http://ndardemo.nih.gov>
  - Request an Account
  - Practice setting up data structures and submitting data