



IDA ADNI Image Analysis

User Testing Report

Methods

User testing was conducted with a total of four researchers at the Laboratory of Neuro Imaging at USC to improve the accessibility of ADNI MR image analysis data on the Image and Data Archive (IDA). Users were tasked with finding ASL, DTI or fMRI image analysis data for ADNI on: (1) the current ADNI IDA page, (2) mockup Option A which categorizes MR image analysis results by modality, and (3) mockup option B which categorizes all MR image analysis modalities into one category. All mockups are included in the User Interface Mockups section of this document.

Results

Most users initially looked through the current IDA ADNI page and scrolled to look for analysis data. Then, they used Command + F on the keyboard to search the page for keywords like "ASL", "DTI" or "fMRI." Only one of four users saw the search box on the top of the page and used it to perform a search for keywords.

After being asked how they would perform the same task on mockup Option A and Option B, all four users preferred Option A. Feedback suggested that it was helpful to see the analysis data broken up by modality, and it made it easier to find the image analysis data for the modality they were looking for. The categorization in Option B was not as clear as A, and users said it would be more helpful if the analysis data are further categorized into modalities.




Recommendations

Based on user feedback, the following updates are recommended and are reflected in the Final Mockup:

- Restructuring the categorization of MR image analysis data by modality.
- Increasing the size of the search area and search button to make it easier for users to search for available data.

User Interface Mockups

Final Mockup



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 - MR Image Quality
 - DTI Analysis
 - fMRI Analysis
 - SMRI Analysis
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 - PET Imaging
 - Medical History
 - Neuropathology
 - Study Info
 - Subject Characteristics
 - Test Data
 - _Archive
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MR Imaging: ALL

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MR Image Acquisition

- All MR Image Acquisition
 - 1.5T MRI Scan Information [ADNI1.GQ.2.3] Version: 2018-03-20
 - 3T MRI Scan Information [ADNI1.GQ.2.3] Version: 2018-03-20
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 - ADNI 3 Diffusion Gradient Table information for Philips Version: 2018-03-20
 - ADNI 3 Diffusion Gradient Table information for Siemens Version: 2018-03-20
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Current IDA Mockup







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- ALL**

- Select ALL tabular data (csv format)
- Select ALL documents and zip files [431.0 GB]
- Assessments
 - ALL Diagnosis
 - Diagnosis and Symptoms Checklist [ADNI1.GO.2]
 - Diagnostic Summary - Baseline Changes [ADNI1.GO.2.3]
 - Diagnostic Summary [ADNI1.GO.2.3]
 - ALL Neuropsychological
 - ADAS Sub-Scores and Total Scores [ADNI1]
 - Alzheimer's Disease Assessment Scale (ADAS) [ADNI1]
 - Alzheimer's Disease Assessment Scale (ADAS) [ADNIGO.2.3]
 - Clinical Dementia Rating Scale (CDR) [ADNI1.GO.2.3]
 - Cognitive Change Index [ADNIG.3]
 - Cogstate Battery Results [ADNIG.3]
 - Cogstate Brief Battery [ADNIG.3] Version: 2016-05-27
 - Everyday Cognition - Participant Self Report [ADNIGO.2.3]
 - Everyday Cognition - Study Partner Report [ADNIGO.2.3]
 - Financial Capacity Instrument Short Form (FCI-SF) [ADNIG.3]
 - Functional Activities Questionnaire (FAQ) [ADNI1.GO.2.3]
 - Geriatric Depression Scale (GDS) [ADNI1.GO.2.3]
 - Item Level Data (ADAS-Cog, ANART, MMSE, etc) [ADNI1]
 - Item Level Data Dictionary (ADAS-Cog, ANART, MMSE, etc) [ADNI1]
 - Mini-Mental State Examination (MMSE) [ADNI1.GO.2.3]
 - Modified Hachinski Ischemia Scale [ADNI1.GO.2.3]
 - Montreal Cognitive Assessment (MoCA) [ADNIGO.2.3]
 - Neuropsychiatric Inventory (NPI) [ADNIG.3]
 - Neuropsychiatric Inventory Questionnaire (NPI-Q) [ADNI1.GO.2.3]
 - Neuropsychological Battery [ADNI1.GO.2.3]
 - UW - Neuropsych Summary Scores Dictionary [ADNI1.GO.2] Version: 2017-02-22
 - UW - Neuropsych Summary Scores Methods: 12 Jan 2016 (PDF) Version: 2016-05-10
 - UW - Neuropsych Summary Scores [ADNI1.GO.2.3] Version: 2019-03-07
 - ALL Non-clinical Assessments
 - BHR Data Dictionary [ADNIG.3]
 - Brain Health Registry: BASELINE QUESTIONNAIRE [ADNIG.3]
 - Brain Health Registry: EVERYDAY COGNITION [ADNIG.3]
 - Brain Health Registry: LONGITUDINAL QUESTIONNAIRE [ADNIG.3]
 - Brain Health Registry: Overview (PDF) Version: 2018-04-05
 - Brain Health Registry: STUDY PARTNER ADL [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER CAREGIVER BURDEN [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER EVERYDAY COGNITION [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER FAQ [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER INITIAL [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER RELATIONSHIP [ADNIG.3]
 - Brain Health Registry: STUDY PARTNER STUDY CONFIRMATION [ADNIG.3]
- Biospecimen
 - ALL Biosample Inventory
 - Aliquot Count in the LDMS Database [ADNI1.GO.2.3] Version: 2019-07-09
 - CSF Aliquot Inventory (PDF) [ADNI1.GO.2] Version: 2016-01-28
 - Plasma Aliquot Inventory (PDF) [ADNI1.GO.2] Version: 2016-01-28
 - Residual Aliquot Count in the LDMS Database Dictionary [ADNIGO.2] Version: 2016-05-10
 - Residual Aliquot Count in the LDMS Database Document [ADNIGO.2] Version: 2016-05-09
 - Residual Aliquot Count in the LDMS Database [ADNIGO.2] Version: 2016-05-10
 - ALL Biospecimen Results
 - AD Metabolomics Consortium Barcelona Purines Version: 2015-12-03
 - AD Metabolomics Consortium Barcelona Purines Dictionary Version: 2015-11-18
 - AD Metabolomics Consortium Barcelona Purines Methods Version: 2015-11-13
 - AD Metabolomics Consortium Bile Acids - Post Processed Data Dictionary [ADNI1.GO.2] Version: 2018-06-28
 - AD Metabolomics Consortium Bile Acids - Post Processed Data [ADNI1.GO.2] Version: 2018-06-28
 - AD Metabolomics Consortium Bile Acids Dictionary [ADNI1] Version: 2016-01-21
 - AD Metabolomics Consortium Bile Acids Methods (PDF) Version: 2016-01-21
 - AD Metabolomics Consortium Bile Acids [ADNI1] Version: 2016-01-21
 - AD Metabolomics Consortium Lipidomics Methods (PDF) Version: 2016-08-16
 - ADMC About the Metabolomics Data Version: 2015-01-15
 - ADMC Duke ADNI1 Baseline Drug Classes Version: 2016-08-29
 - ADMC Duke ADNIG.2.3 Drug Classes Version: 2017-05-12
 - ADMC Duke Biocrates P180 K4 Flow injection analysis Dictionary [ADNI1] Version: 2015-08-13
 - ADMC Duke Biocrates P180 K4 Flow injection analysis Dictionary [ADNIGO.2] Version: 2017-04-12
 - ADMC Duke Biocrates P180 K4 Flow injection analysis [ADNI1] Version: 2016-01-15
 - ADMC Duke Biocrates P180 K4 Flow injection analysis [ADNIGO.2] Version: 2017-04-12
 - ADMC Duke Biocrates P180 K4 Ultra Performance Liquid Chromatography Dictionary Version: 2015-08-13
 - ADMC Duke Biocrates P180 K4 Ultra Performance Liquid Chromatography Methods (PDF) Version: 2015-08-14
 - ADMC Duke Biocrates P180 K4 Ultra Performance Liquid Chromatography [ADNI1] Version: 2016-01-15
 - ADMC Duke Clinical Variables Version: 2016-05-16
 - ADMC Duke P180 Flow injection analysis - Post Processed Data Version: 2016-08-29
 - ADMC Duke P180 Flow injection analysis Raw Spectra Version: 2017-03-07
 - ADMC Duke P180 Mass Spec Workflow Files Version: 2017-03-07
 - ADMC Duke P180 Supplementary Files [ADNIGO.2] Version: 2017-04-10
 - ADMC Duke P180 Ultra Performance Liquid Chromatography - Post Processed Data Version: 2016-08-29
 - ADMC Duke P180 Ultra Performance Liquid Chromatography Dictionary [ADNIGO.2] Version: 2017-04-12
 - ADMC Duke P180 Ultra Performance Liquid Chromatography Raw Spectra Version: 2017-03-07
 - ADMC Duke P180 Ultra Performance Liquid Chromatography [ADNIGO.2] Version: 2017-04-12
 - ADMC Duke P180 Workflow Raw File Mapping Data Dictionary Version: 2017-03-07
 - ADMC Lipidomics Extracted Ion Chromatograms [ADNI1] Version: 2017-08-09
 - ADMC Lipidomics Measured Lipid Molecules Data (ISA-lab) [ADNI1] Version: 2018-07-03
 - ADMC Lipidomics Measured Lipid Molecules Data Dictionary [ADNI1] Version: 2017-08-09
 - ADMC Lipidomics Measured Lipid Molecules Data Matrix [ADNI1] Version: 2017-08-05
 - ADMC Lipidomics MetLife Lab Baseline Data Matrix Dictionary [ADNI1] Version: 2018-05-18
 - ADMC Lipidomics MetLife Lab Baseline Data Matrix Methods (PDF) Version: 2018-03-14
 - ADMC Lipidomics MetLife Lab Baseline Data Matrix Version History (PDF) Version: 2019-03-14
 - ADMC Lipidomics MetLife Lab Baseline Data Matrix [ADNI1] Version: 2019-03-05
 - ADMC Lipidomics Raw LDMS data files ESI negative modes [ADNI1] Version: 2017-08-09
 - ADMC Lipidomics Raw LDMS data files ESI positive modes [ADNI1] Version: 2017-08-09
 - ADMC Lipidomics Sample Prep and Analysis Methods [ADNIG.3] Version: 2017-08-06
 - ADMC Lipidomics Sample Prep and Analysis Methods [ADNIGO.3] Version: 2018-10-29
 - ADMC Lipidomics Sample Prep and Analysis Methods [ADNIGO.3] Version: 2019-03-14
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Option A Mockup



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 - SMRI Analysis
 - ALL
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- Neuropathology
- Study Info
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- UCLA - DTI ROI Summary Measures Methods (PDF) Version: 2018-03-20
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SMRI Analysis

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- Lorem ipsum dolor sit amet, consectetur adipiscing elit [ADNI1.GO.2.3] Version: 2018-03-20
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