DCAM 1.0 Data Release Appendix:

File Names and Directory Structure for Dimensional Connectomics of Anxious Misery Project

20 July 2023

Table of Contents

Introduction

This document lists all file names, directories, and subdirectories obtained when downloading available demographic, unprocessed, and structural preprocessed imaging data from an exemplar Dimensional Connectomics of Anxious Misery (DCAM) subject from the DCAM Release 1.0 from the NIMH Data Archive (NDA). DCAM data was collected using protocols similar to HCP-Aging so generally the unprocessed file structure is the same between these projects as they are in the input structure expected by the HCP Pipelines. The purpose of this appendix is to quickly orient you to the structure of a download from the NDA, so that you can point your tools to the HCP-style data hidden in its subdirectories.

NDA Download packages vs. HCP-style Packages

On the [Connectomes Related to Human Disease Featured Datasets query page](#) the user may choose to download the MRI unprocessed data, preprocessed structural data, or both (and the corresponding behavioral data) by downloading premade NDA shared data packages (OPTION ONE) or by creating your own custom NDA package by selecting subsets of the data (OPTION TWO).

The subsets of the data used for the OPTION TWO filters are what we call "HCP Packages" (see table below) and they are analogous to the data packages we offered in ConnectomeDB for HCP-Young Adult. Data files are grouped together across directories into "HCP Packages".

Since subject numbers and data sizes are large, NDA download times are slow, and users with different analysis goals only need parts of the HCP pipeline processing outputs, we took great care to make several different HCP packages available for download. The NDA shared data packages we offer in OPTION ONE (DCAMAllFiles and DCAMImgManifestBeh) were each made with the OPTION TWO filters to make a subset of the data that would be useful to users.

DCAM 1.0 Datasets (HCP Packages) available in OPTION 2:

NDA structure	HCP Package (shortname)	HCP Package Contents
imagingcollection01	UnprocStruc	multi-echo MPRAGE (T1 weighted) and T2-SPACE (T2 weighted) scans (in NIFTI format)
imagingcollection01	UnprocDmri	dMRI scans (in NIFTI format), bval, and bvec files for the two sets of diffusion sensitizing directions ('dir98' and 'dir99')
imagingcollection01	UnprocRfmri	both pairs of resting state fMRI scans (in NIFTI format)
imagingcollection01	UnprocTfmriFACES	fMRI scans for the CARIT task (in NIFTI format; Go/NoGo Conditioned Approach Response Inhibition Task)
imagingcollection01	UnprocTfmriCONFLICT	fMRI scan for the FACEMATCHING task (in NIFTI format; paired-associative memory task)
imagingcollection01	UnprocTfmriGAMBLING	dMRI scans (in NIFTI format), bval, and bvec files for the two sets of diffusion sensitizing directions ('dir98' and 'dir99')
imagingcollection01	UnprocTseHiRes	turbo-spin-echo high spatial resolution hippocampal structural scan (in NIFTI format)

Appendix Definitions

This appendix is organized into sections by HCP Package with file contents detailed within their directory structure for a single subject.

If you create a custom download package that contains more than one HCP Package/filter, the files and directories contained in the selected packages will be combined into a single directory tree per subject in your downloaded data.

imagingcollection01 is an NDA data structure that contains unprocessed imaging data. We map the DCAM data into the same HCP-style directory structure as that of released HCP Lifespan and HCP Young Adult data into this NDA data structure. This makes it possible to maintain compatibility with the expected inputs and outputs of processing through the HCP Pipelines at the individual subject level.

In addition, when an NDA package is created for download, a datastructure_manifest.txt file is created by NDA that lists per file URI pointers to its S3 bucket location and the name of the HCP package to which it "belongs". These URIs can be used to download files using NDA command line tools as described in the Lifespan 2.0 Release Data Access & Download Instructions, Within the URI for each file, the HCP file structure is also preserved, which could be used to create directory trees such as the ones contained in this document. Since this is such a useful file, we have made a shared OPTION ONE package DCAMImgManifestBeh containing the datastructure_manifest.txt for all imaging files and all behavioral *.txt files in a quick download.

Top-level Download Organization

Your downloaded data from the NDA will have, under the imagingcollection01 directory, high level <SubjectID_MR> directories (e.g., NDARBB471NAU_MR).

The package will download to the Save To: location on your file system with the top directory name matching the package number (<Package_{YourPkgNumber}>, or, e.g., Package_1210439).

For example, if your package contains Unprocessed Image Data and Behavioral Data, the high-level <Package_{YourPkgNumber}> directory will contain:

```
<Package_{YourPkgNumber}>/
     dataset_collection.txt          Info on PDC NDA collection
     datastructure_manifest.txt      S3 URIs for every per subject file
     dccs01.txt
     deldisk01.txt
     er4001.txt
     experiments/                    tfMRI and rsfMRI stimuli info and block design
     flanker01.txt
     imagingcollection01/            Unprocessed image data
     imagingcollection01.txt
     lswmt01.txt
     md5_values.txt                  md5 checksums for download verification
     ndar_subject01.txt
     package_info.txt                Info on NDA filters used to create download package
```

```
pcps01.txt
pmat01.txt
psm01.txt
pwmt01.txt
README.pdf                    NDA default README
self_effic01.txt
tlbx_sadness01.txt
tlbx_socwit01.txt
tpvt01.txt
```

Many of these files contain behavioral data in NDA structure format. For more information on the nda_elements (variables) and instruments, please see the DCAM1.0_Crosswalk_Behavioral_Data_Dictionary.xlsx and the other DCAM 1.0 Documentation.

Unprocessed MR Data Directory Structure

Unprocessed data for each DCAM subject is in the

<Package_YourPkgNumber>/imagingcollection01/<SubjectID_MR>/unprocessed/ directory

JSON files (*.json) with the same name as corresponding NIFTI images contain scan level meta data pulled from the DICOM header.

Unprocessed data for exemplar subject NDARBB471NAU_MR has the following directory structure:

```
<Package_YourPkgNumber>/imagingcollection01/NDARBB471NAU_MR/unprocessed/
├── Diffusion/
├── rfMRI_REST1_AP/
├── rfMRI_REST1_PA/
├── rfMRI_REST2_AP/
├── rfMRI_REST2_PA/
├── T1w_MPR/
├── T2w_SPC/
├── tfMRI_CONFLICT1_AP/
├── tfMRI_CONFLICT1_PA/
├── tfMRI_CONFLICT2_AP/
├── tfMRI_CONFLICT2_PA/
├── tfMRI_FACES_AP/
├── tfMRI_FACES_PA/
├── tfMRI_GAMBLING_AP/
├── tfMRI_GAMBLING_PA/
├── TSE_Norm_HiResHp/
```

Unprocessed T1w and T2w Structural

This package contains multi-echo MPRAGE (T1 weighted) and T2-SPACE (T2 weighted) scans (in NIFTI format). The T1w image and the T2w image collected with Siemen's 'Prescan Normalize' feature are recommended. It also includes a session report file that provides an overview of the usable imaging data collected during the participant's visit.

UnprocStruc

```
NDARBB471NAU_MR/unprocessed/T1w_MPR/
├── NDARBB471NAU_MR_T1w_MPR_Norm.json
├── NDARBB471NAU_MR_T1w_MPR_Norm.nii.gz
└── OTHER_FILES
    ├── NDARBB471NAU_MR_SessionBuildingReport.html
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.json
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.nii.gz
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.json
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.nii.gz
    ├── NDARBB471NAU_MR_T1w_MPR.json
    ├── NDARBB471NAU_MR_T1w_MPR.nii.gz
```

```
└── session_report.csv
```
NDARBB471NAU_MR/unprocessed/T2w_SPC_vNav
```
├── NDARBB471NAU_MR_T2w_SPC_Norm.json
├── NDARBB471NAU_MR_T2w_SPC_Norm.nii.gz
└── OTHER_FILES
        ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.json
        ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.nii.gz
        ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.json
        ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.nii.gz
        ├── NDARBB471NAU_MR_T2w_SPC.json
        └── NDARBB471NAU_MR_T2w_SPC.nii.gz
```

Unprocessed High Resolution Hippocampal Structural

This package contains the turbo-spin-echo high spatial resolution hippocampal structural scan (in NIFTI format), reconstructed with Siemens's 'Prescan Normalize', plus SpinEchoFieldMaps.

UnprocTseHires

NDARBB471NAU_MR/unprocessed/TSE_Norm_HiResHp/
```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_TSE_Norm_HiResHp.json
└── NDARBB471NAU_MR_TSE_Norm_HiResHp.nii.gz
```

Unprocessed Resting State rfMRI

This package contains one (patients) or two (controls) pairs of resting state fMRI scans (in NIFTI format), acquired with AP/PA phase encoding, plus SpinEchoFieldMaps, SBRefs, and PsychoPy event timing, and Physio files containing pulse oximetry and respiratory traces.

UnprocRfmri

NDARBB471NAU_MR/unprocessed/
```
├── rfMRI_REST1_AP
│       ├── NDARBB471NAU_MR_rfMRI_REST1_AP.json
│       ├── NDARBB471NAU_MR_rfMRI_REST1_AP.nii.gz
│       ├── NDARBB471NAU_MR_rfMRI_REST1_AP_SBRef.json
│       ├── NDARBB471NAU_MR_rfMRI_REST1_AP_SBRef.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.nii.gz
```

```
│       ├── LINKED_DATA
│       │   └── PHYSIO
│       │       ├── Physio_e1d431dd-6886-4b48-8e91-9359ac976b7d_PULS.tsv
│       │       └── Physio_e1d431dd-6886-4b48-8e91-9359ac976b7d_RESP.tsv
│       └── OTHER_FILES
│           └── NDARBB471NAU_MR_rfMRI_REST1_AP_InitialFrames.nii.gz
├── rfMRI_REST1_PA
│       ├── NDARBB471NAU_MR_rfMRI_REST1_PA.json
│       ├── NDARBB471NAU_MR_rfMRI_REST1_PA.nii.gz
│       ├── NDARBB471NAU_MR_rfMRI_REST1_PA_SBRef.json
│       ├── NDARBB471NAU_MR_rfMRI_REST1_PA_SBRef.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.nii.gz
│       ├── LINKED_DATA
│       │   └── PHYSIO
│       │       ├── Physio_f5b3e6c0-58df-447a-983f-30b013c0cb7c_PULS.tsv
│       │       └── Physio_f5b3e6c0-58df-447a-983f-30b013c0cb7c_RESP.tsv
│       └── OTHER_FILES
│           └── NDARBB471NAU_MR_rfMRI_REST1_PA_InitialFrames.nii.gz
├── rfMRI_REST2_AP
│       ├── NDARBB471NAU_MR_rfMRI_REST2_AP.json
│       ├── NDARBB471NAU_MR_rfMRI_REST2_AP.nii.gz
│       ├── NDARBB471NAU_MR_rfMRI_REST2_AP_SBRef.json
│       ├── NDARBB471NAU_MR_rfMRI_REST2_AP_SBRef.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
│       ├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
│       ├── LINKED_DATA
│       │   └── PHYSIO
│       │       ├── Physio_f704acb7-7e43-4937-a10f-5e94e26b605b_PULS.tsv
│       │       └── Physio_f704acb7-7e43-4937-a10f-5e94e26b605b_RESP.tsv
│       └── OTHER_FILES
│           └── NDARBB471NAU_MR_rfMRI_REST2_AP_InitialFrames.nii.gz
└── rfMRI_REST2_PA
        ├── NDARBB471NAU_MR_rfMRI_REST2_PA.json
        ├── NDARBB471NAU_MR_rfMRI_REST2_PA.nii.gz
        ├── NDARBB471NAU_MR_rfMRI_REST2_PA_SBRef.json
        ├── NDARBB471NAU_MR_rfMRI_REST2_PA_SBRef.nii.gz
        ├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
        ├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
        ├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
        ├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
        ├── LINKED_DATA
```

```
│   └── PHYSIO
│   │       ├── Physio_7de13af2-149c-4353-b29c-7ebbb78efda9_PULS.tsv
│   │       └── Physio_7de13af2-149c-4353-b29c-7ebbb78efda9_RESP.tsv
└── OTHER_FILES
        └── NDARBB471NAU_MR_rfMRI_REST2_PA_InitialFrames.nii.gz
```

Unprocessed tfMRI FACES

This package contains the fMRI scans for the FACES task (in NIFTI format; Emotion Processing task), acquired with AP/PA phase encoding, plus SpinEchoFieldMaps, SBRefs, PsychoPy event timing and task modeling files, and Physio files containing pulse oximetry and respiratory traces for each run.

UnprocTfmriFACES

NDARBB471NAU_MR/unprocessed/tfMRI_FACES_AP
```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_FACES_AP.json
├── NDARBB471NAU_MR_tfMRI_FACES_AP.nii.gz
├── NDARBB471NAU_MR_tfMRI_FACES_AP_SBRef.json
├── NDARBB471NAU_MR_tfMRI_FACES_AP_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_d448a77a-fc78-4590-82d8-d302f51829ba_PULS.tsv
│   │   └── Physio_d448a77a-fc78-4590-82d8-d302f51829ba_RESP.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-face_fearful.txt
│           ├── task-face_happy.txt
│           ├── task-face_neutral.txt
│           └── task-face_object.txt
└── OTHER_FILES
        └── NDARBB471NAU_MR_tfMRI_FACES_AP_InitialFrames.nii.gz
```

NDARBB471NAU_MR/unprocessed/tfMRI_FACES_PA
```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_FACES_PA.json
├── NDARBB471NAU_MR_tfMRI_FACES_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_FACES_PA_SBRef.json
├── NDARBB471NAU_MR_tfMRI_FACES_PA_SBRef.nii.gz
├── LINKED_DATA
```

```
│   ├── PHYSIO
│   │   ├── Physio_c5712613-f56a-4bb7-9b78-c340f276a03c_PULS.tsv
│   │   └── Physio_c5712613-f56a-4bb7-9b78-c340f276a03c_RESP.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-face_fearful.txt
│           ├── task-face_happy.txt
│           ├── task-face_neutral.txt
│           └── task-face_object.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_FACES_PA_InitialFrames.nii.gz
```

Unprocessed tfMRI CONFLICT

This package contains the fMRI scan for the CONFLICT Emotional Interference Task (in NIFTI format), acquired with AP/PA phase encoding, plus SpinEchoFieldMaps, SBRef, PsychoPy event timing and task modeling files, and Physio files containing pulse oximetry and respiratory traces.

UnprocTfmriCONFLICT

NDARBB471NAU_MR/unprocessed/tfMRI_CONFLICT1_AP
```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_AP.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_AP.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_AP_SBRef.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_AP_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_36c23b24-01b1-432b-8999-34e1ae95f91e_PULS.tsv
│   │   └── Physio_36c23b24-01b1-432b-8999-34e1ae95f91e_PULS.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-conflict_faces_fearful.txt
│           ├── task-conflict_faces_neutral.txt
│           ├── task-conflict_houses_fearful.txt
│           └── task-conflict_houses_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_CONFLICT1_AP_InitialFrames.nii.gz
```

NDARBB471NAU_MR/unprocessed/tfMRI_CONFLICT1_PA
```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
```

```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_PA.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_PA_SBRef.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT1_PA_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_20160d5f-cb72-4b2a-b9d4-6147f8c212a5_PULS.tsv
│   │   └── Physio_20160d5f-cb72-4b2a-b9d4-6147f8c212a5_PULS.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-conflict_faces_fearful.txt
│           ├── task-conflict_faces_neutral.txt
│           ├── task-conflict_houses_fearful.txt
│           └── task-conflict_houses_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_CONFLICT1_PA_InitialFrames.nii.gz
```

NDARBB471NAU_MR/unprocessed/tfMRI_CONFLICT2_AP

```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_AP.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_AP.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_AP_SBRef.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_AP_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_d5a125b6-b9d0-4d8e-ad1a-2eebf353084c_PULS.tsv
│   │   └── Physio_d5a125b6-b9d0-4d8e-ad1a-2eebf353084c_PULS.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-conflict_faces_fearful.txt
│           ├── task-conflict_faces_neutral.txt
│           ├── task-conflict_houses_fearful.txt
│           └── task-conflict_houses_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_CONFLICT2_AP_InitialFrames.nii.gz
```

NDARBB471NAU_MR/unprocessed/tfMRI_CONFLICT2_PA

```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_PA.json
```

```
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_PA_SBRef.json
├── NDARBB471NAU_MR_tfMRI_CONFLICT2_PA_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_2de00551-a834-4f04-accb-887e7905d660_PULS.tsv
│   │   └── Physio_2de00551-a834-4f04-accb-887e7905d660_PULS.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-conflict_faces_fearful.txt
│           ├── task-conflict_faces_neutral.txt
│           ├── task-conflict_houses_fearful.txt
│           └── task-conflict_houses_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_CONFLICT2_PA_InitialFrames.nii.gz
```

Unprocessed tfMRI GAMBLING

This package contains the fMRI scans for the GAMBLING task (in NIFTI format), acquired with AP/PA phase encoding, plus SpinEchoFieldMaps, SBRefs, PsychoPy event timing and task modeling files, and Physio files containing pulse oximetry and respiratory traces for each run.

UnprocTfmriGAMBLING

NDARBB471NAU_MR/unprocessed/tfMRI_GAMBLING_AP

```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_GAMBLING_AP.json
├── NDARBB471NAU_MR_tfMRI_GAMBLING_AP.nii.gz
├── NDARBB471NAU_MR_tfMRI_GAMBLING_AP_SBRef.json
├── NDARBB471NAU_MR_tfMRI_GAMBLING_AP_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_54c36fd0-d4c9-4b7a-bc3a-e3e1a13cc3a9_PULS.tsv
│   │   └── Physio_54c36fd0-d4c9-4b7a-bc3a-e3e1a13cc3a9_RESP.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-gambling_gain.txt
│           ├── task-gambling_loss.txt
│           └── task-gambling_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_GAMBLING_AP_InitialFrames.nii.gz
```

NDARBB471NAU_MR/unprocessed/tfMRI_GAMBLING_PA

```
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_AP.nii.gz
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.json
├── NDARBB471NAU_MR_SpinEchoFieldMap2_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_GAMBLING_PA.json
├── NDARBB471NAU_MR_tfMRI_GAMBLING_PA.nii.gz
├── NDARBB471NAU_MR_tfMRI_GAMBLING_PA_SBRef.json
├── NDARBB471NAU_MR_tfMRI_GAMBLING_PA_SBRef.nii.gz
├── LINKED_DATA
│   ├── PHYSIO
│   │   ├── Physio_99bac17f-6eff-4b45-b967-ca3f3d41c698_PULS.tsv
│   │   └── Physio_99bac17f-6eff-4b45-b967-ca3f3d41c698_PULS.tsv
│   └── TASK_TIMING
│       └── EVs
│           ├── task-gambling_gain.txt
│           ├── task-gambling_loss.txt
│           └── task-gambling_neutral.txt
└── OTHER_FILES
    └── NDARBB471NAU_MR_tfMRI_GAMBLING_PA_InitialFrames.nii.gz
```

Unprocessed Diffusion

This package contains the dMRI scans (in NIFTI format), bval, and bvec files for the two sets of diffusion sensitizing directions ('dir98' and 'dir99'), each acquired with AP/PA phase encoding, plus SpinEchoFieldMaps and SBRefs.

UnprocDmri

NDARBB471NAU_MR/unprocessed/Diffusion/
```
├── NDARBB471NAU_MR_dMRI_dir98_AP.bval
├── NDARBB471NAU_MR_dMRI_dir98_AP.bvec
├── NDARBB471NAU_MR_dMRI_dir98_AP.json
├── NDARBB471NAU_MR_dMRI_dir98_AP.nii.gz
├── NDARBB471NAU_MR_dMRI_dir98_AP_SBRef.json
├── NDARBB471NAU_MR_dMRI_dir98_AP_SBRef.nii.gz
├── NDARBB471NAU_MR_dMRI_dir98_PA.bval
├── NDARBB471NAU_MR_dMRI_dir98_PA.bvec
├── NDARBB471NAU_MR_dMRI_dir98_PA.json
├── NDARBB471NAU_MR_dMRI_dir98_PA.nii.gz
├── NDARBB471NAU_MR_dMRI_dir98_PA_SBRef.json
├── NDARBB471NAU_MR_dMRI_dir98_PA_SBRef.nii.gz
├── NDARBB471NAU_MR_dMRI_dir99_AP.bval
├── NDARBB471NAU_MR_dMRI_dir99_AP.bvec
├── NDARBB471NAU_MR_dMRI_dir99_AP.json
├── NDARBB471NAU_MR_dMRI_dir99_AP.nii.gz
├── NDARBB471NAU_MR_dMRI_dir99_AP_SBRef.json
```

```
├── NDARBB471NAU_MR_dMRI_dir99_AP_SBRef.nii.gz
├── NDARBB471NAU_MR_dMRI_dir99_PA.bval
├── NDARBB471NAU_MR_dMRI_dir99_PA.bvec
├── NDARBB471NAU_MR_dMRI_dir99_PA.json
├── NDARBB471NAU_MR_dMRI_dir99_PA.nii.gz
├── NDARBB471NAU_MR_dMRI_dir99_PA_SBRef.json
├── NDARBB471NAU_MR_dMRI_dir99_PA_SBRef.nii.gz
└── OTHER_FILES
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.json
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_AP.nii.gz
    ├── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.json
    └── NDARBB471NAU_MR_SpinEchoFieldMap1_PA.nii.gz
```