Why would I need this script?

* Do your exported DICOM folders look like **Figure 1** below??? Then this script is for you!!!
* Do you exported DICOM folders look like **Figure 3** below??? You’re perfect and don’t need this script, congrats!

What does this script do?

* **UF\_pilot\_anon** loops through participants (if necessary) and through scan types, anonymizes the DICOMs, sets up UCSD-approved folder structures, and zips the resulting folder for the HBCD pilot data transfer

How should the folders be structured?

**IMPORTANT: UCSD transfer hub wants all scans in individual folders, so ensure you export DICOMs separately rather than all at once**

|  |  |  |
| --- | --- | --- |
| input folder | **hbcd\_pilot\_anonymizer.py** output | **UF\_pilot\_anon** output |
| Graphical user interface, application  Description automatically generated  **Figure 1**: Input folder structure at UF site | Table  Description automatically generated with medium confidence  **Figure 2**: hbcd\_pilot\_anonymizer.py output structure given Figure 1 input structure | Table  Description automatically generated with medium confidence  **Figure 3:** Correct folder structure & output following UF\_pilot\_anon |

* Currently, this script is written so the input folder is hbcdID/scan-type given Figure 1 folder structure. **hbcd\_pilot\_anonymizer.py**’s output is all anonymized DICOMs under the scan/DICOM folder (Figure 2)
* This is not the proper folder structure for UCSD, so:
  + line 32 moves anonymized DICOM images from hbcdID/scan/DICOM folder to hbcdID/scan folder
  + line 33 removes the empty DICOM folder and the DICOMDIR folder
* If your folder structure already looks like Figure 3, you don’t need this looping script! Instead, just run **hbcd\_pilot\_anonymizer.py** with your input as the hbcdID folder containing scan-type subfolders

What are the inputs?

* This script pulls information like HBCD ID naming convention and infant age from the **subInfo.txt** file
  + It’s done this way (instead of hard coding it in the script) so the script can loop over participants if it’s ever needed AND modifying a text file is way less intimidating than a code-based script
  + In **subInfo.txt**, hbcd ID and age are separated by a “z” such that before the z is the HBCD fID and after is the age of the baby
    - If the hbcd ID is TIUFL0000\_000000\_V02 and the infant’s age is 1 week, subInfo.txt for that baby is TIUFL0000\_000000\_V02z001W
  + In the event you have more than one participant to anonymize, enter the baby 2’s info on the next line of the text file:

TIUFL0001\_010101\_V02z001W

TIUFL0002\_123456\_V02z003W

* Hardcoded in the script are the scan types (line 11). These should be the *exact* names of the folders containing the DICOMs of each scan type so the script can loop through the scans.

What must be changed per site?

* Information in subInfo.txt
* Line 11
  + scan-type folder naming convention. Make sure it matches your folders!
* Line 28
  + location of hbcd\_pilot\_anonymizer.py
  + Input & output directory locations for the hbcd\_pilot\_anonymizer.py function
* Lines 32 & 33
  + Directory locations for moving DICOM files and removing empty folders
* Line 36
  + Currently, ending = <study instance uid> from Transfer SOP (i.e., \_pilot\_test)
  + I imagine this will eventually become \_pilot when we start running real pilots
* Line 38
  + Directory locations for to-be-zipped anonymized folder
  + Location for zipped folder to be saved

How to run this script:

* Save UF\_pilot\_anon and subInfo.txt in your home directory (i.e., the default directory when you open terminal)
  + If not, navigate to the folder that houses this script and the subject info text file
* Once you have set your directories in the script, the only thing to modify per pilot baby is the subInfo.txt
* In terminal, type ./UF\_pilot\_anon and the script will run. Next step: data transfer!

Notes

* This script was developed using macOS v 12.2.1 and the Terminal app
* Comments, questions, concerns? Email Maeve Boylan at [mboylan@ufl.edu](mailto:mboylan@ufl.edu)