

User Guide (release version 2)

This document details how to use the Precision Aging Network database pandb.org through data download to a .csv file. Data are stored in data tables, all coming from Projects and Cores, with many coming from different groups and labs with Project and Cores. If you have any questions or issues with the database, please email help@pandb.org. Someone will respond within 24 hours on a business day.

We describe the database functionality in four broad steps:

1. Merging (also called “joining”) data tables, as an exemplar we show how to combine three data tables: Healthy Minds for Life (HML, Project 2) Demographics data + AD Plasma Biomarkers (from Core G, Moghekar Lab) + Upper Extremity Frailty Assessment (UEF Frailty, from Core F, Najafi Lab). The HML ID is the primary ID that is used to index all of these data tables.
2. Select variables from the combined dataset that you wish to use. First, we show how to view the data dictionary and then how to select from the variables that are included in each data table. For this example, we will select the variables below

Data Table	Variables
HML Demographics	Hml Id, Site, Sex, Age
AD Plasma Biomarkers	Abeta_40, Abeta_42, Ab42_40, Gfap, Nf Light, Ptau 181
UEF Frailty	Dt Fi, St Fi

3. Keep a permanent link for future reference, this will allow you to modify your dataset in the future, either to add variables, or update your dataset when new data are released (every six months).
4. Download a .csv file that you can use for any statistical program you wish to use.

Section 1: Select and Merge 3 Data Tables

Step 1: Scroll through tables and find the HML Demographics table

Step 2: Choose HML ID as the index used to merge the data tables

Step 3: Scroll through tables and find AD Plasma Biomarkers table

Step 4: Hit blue “add table” button

Precision Aging[®] Network

Table options

Primary table
HML Demographics

Join additional tables on
hml_id

Additional tables
AD Plasma Biomarkers

Add table button

Choose index ID. Note: HML ID is standard, MindCrowd is useful when analyzing data from the entire MindCrowd

Step 5: Add UEF Frailty table in the same manner as steps 3 and 4

Precision Aging[®] Network

Table options

Primary table
HML Demographics

Join additional tables on
hml_id

Additional tables
UEF Frailty

Active tables

HML Demographics

AD Plasma Biomarkers

After completing these steps button you will have 3 data tables chosen for your dataset

Which tables have been merged

Active tables

HML Demographics AD Plasma Biomarkers UEF Frailty

Section 2: Select which variables to keep for your dataset

Step 1: Look at data dictionary for the tables you have joined by hitting on the data dictionary button

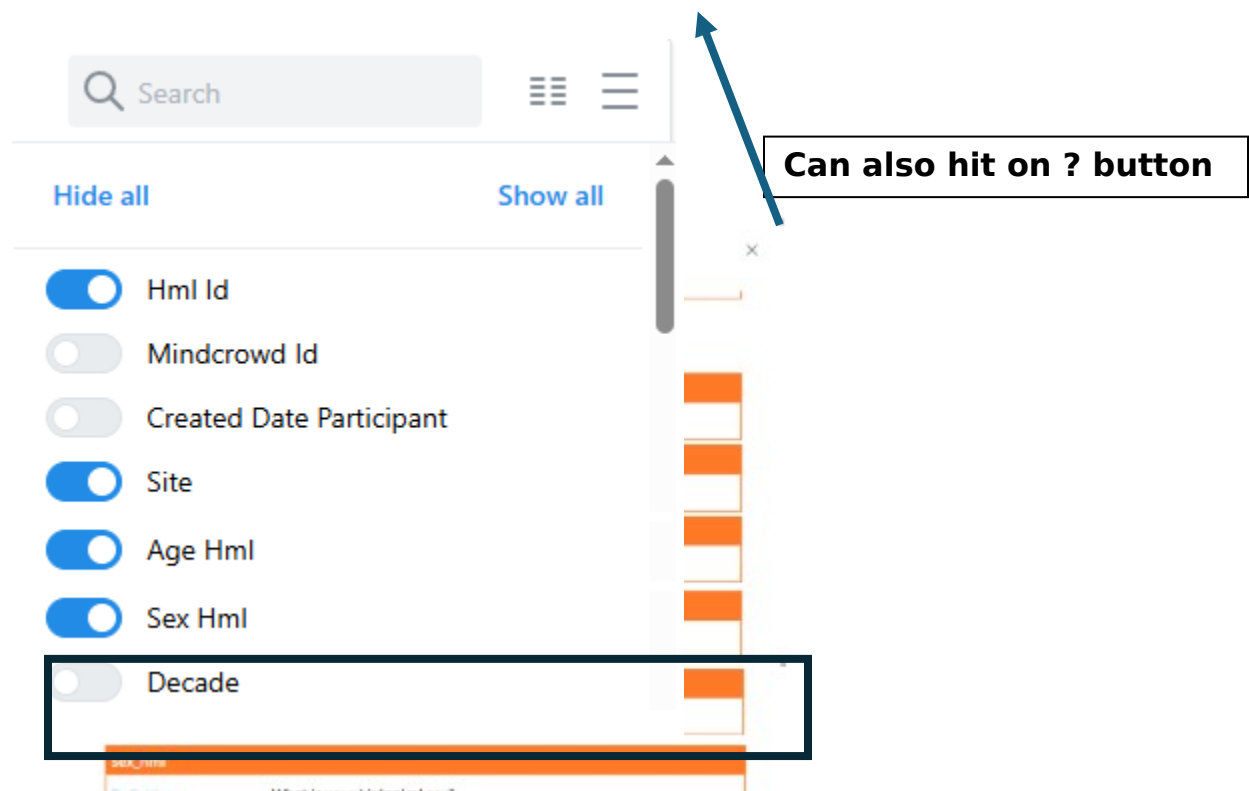
Data dictionary for all three data tables that have been merged

Data dictionary Download .csv Get Permanent Link

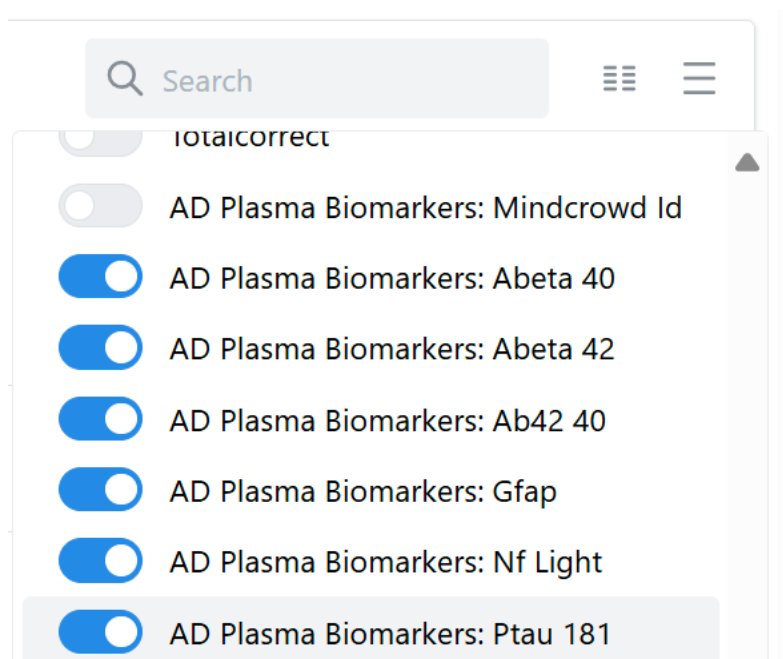
What is your current age?

Hml Id	Mindcrowd Id	Created Date Participant	Site	Age Hml	AD Plasma Biomarkers: Mindcrowd Id	AD Plasma Biomarkers: Abeta 40	AD Plasma Biomarkers: Abeta 42
HML0135	0035e000015HlkgAAC	2023-07-22 19:38:00	Baltimore	56.0000	0035e000015HlkgAAC	115.6365	6.0062
HML0031	0035e000015HI36AAG	2023-07-19 23:52:55	Baltimore	64.0000	0035e000015HI36AAG	68.1007	9.9499
HML0136	0035e000015HKK0AAO	2023-07-20 03:13:25	Baltimore	59.0000	0035e000015HKK0AAO	140.0463	8.0196

Select variables from HML Demographics data table



Select variables from the AD Plasma Biomarkers data table



Select variables from the UEF Frailty data table

The image displays two side-by-side screenshots of a software interface for configuring 'UEF Frailty' settings. Each screenshot shows a list of frailty metrics with toggle switches. The left screenshot shows the 'Df' (Dietary Fiber) section, and the right screenshot shows the 'St' (Starch) section. In both, the 'Fi' (Intake) option is selected.

Left Screenshot (Df Section):

- UEF Frailty: Dt Fallt Mean
- UEF Frailty: Dt Fallt Pd
- UEF Frailty: Dt Fallt Sd
- UEF Frailty: Dt Fen
- UEF Frailty: Dt Fer
- UEF Frailty: Dt Fet Cv
- UEF Frailty: Dt Fet Mean
- UEF Frailty: Dt Fet Pd
- UEF Frailty: Dt Fet Sd
- UEF Frailty: Dt Fi** (Selected)
- UEF Frailty: Dt Flex Cv

Right Screenshot (St Section):

- UEF Frailty: St Fer
- UEF Frailty: St Fet Cv
- UEF Frailty: St Fet Mean
- UEF Frailty: St Fet Pd
- UEF Frailty: St Fet Sd
- UEF Frailty: St Fi** (Selected)
- UEF Frailty: St Flex Cv
- UEF Frailty: St Flex Mean
- UEF Frailty: St Flex Pd
- UEF Frailty: St Flex Sd

You now have a combined dataset that only has the selected variables from each of the three data tables. You can look at the columns and the first set of rows using the buttons at the bottom of the table or if you have a touchscreen computer/monitor you can use the on screen-swipe.

HML0029	58.0000	Male	114.3712	6.4635	0.0565	61.3353	13.4897	24.1023	0.1011	0.1111
HML0004	57.0000	Male	125.2648	6.2118	0.0496	98.5627	14.4580	46.5633	0.0100	0.0357
HML0008	56.0000	Female	102.6079	6.4790	0.0631	96.5352	12.2543	23.1252	0.1295	0.0771

Rows per page50

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1

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...

13

>

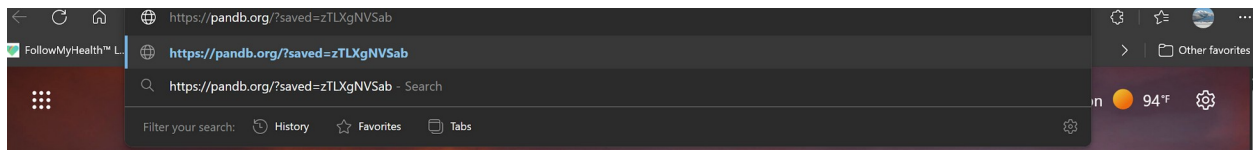
>>

Section 3: Keep a permanent link for future reference

Cut-and-paste this link somewhere so that in the future you can just paste this into your browser and pull up the same table. You can, in the future, get additional variables from these three tables or even add new tables!

The screenshot shows the Precision Aging Network interface. In the 'Table options' section, the 'Primary table' is 'P2RedcapDemographics' and 'Join additional tables on' is 'hml_id'. A box labeled 'Create permanent link' is highlighted. In the 'Active tables' section, 'P2RedcapDemographics', 'CoreAdPlasmaBiomarker', and 'CoreNajafiFrailty' are listed. A box labeled 'Download data' is highlighted. Below the active tables, there are buttons for 'Data dictionary', 'Download .csv', 'Get Permanent Link', and 'zTLXgNVSab'. A search bar and a list of variables are also visible.

What the browser looks like when you paste the identifier



Section 4: Download dataset

The screenshot shows the Precision Aging Network interface. In the 'Table options' section, the 'Primary table' is 'P2RedcapDemographics' and 'Join additional tables on' is 'hml_id'. A box labeled 'Download data' is highlighted. In the 'Active tables' section, 'P2RedcapDemographics', 'CoreNajafiFrailty', and 'CoreAdPlasmaBiomarker' are listed. Below the active tables, there are buttons for 'Data dictionary', 'Download .csv', 'Get Permanent Link', and 'zTLXgNVSab'. A search bar and a list of variables are also visible.

Hml Id	Age Hm	Sex Hm	Base M	CoreNajafi Dt Fi	CoreNajafi Sl Fi	CoreAdl Abeta 40	CoreAdl Abeta 42	CoreAdl Abeta 40	CoreAdl Glap	CoreAdl Nf Light
HML0312	55.0000	Female		0.2058	0.1627	76.9775	5.8575	0.0761	62.9555	5.7310
HML0135	56.0000	Female		0.1737	0.1758	115.6365	6.0062	0.0519	106.1179	13.6112
HML0031	64.0000	Female		0.1880	0.1488	68.1007	9.9499	0.1461	122.2902	28.0353
HML0136	59.0000	Female		0.1696	0.1642	140.0463	8.0196	0.0573	135.3812	15.0867
HML0153	65.0000	Male		0.1355	0.1327	113.4719	5.8974	0.0520	65.0945	10.7001
HML0005	58.0000	Female		0.1671	0.1589	118.7370	5.8720	0.0495	60.3845	10.9082