

The MURDOCK Study Community Registry and Biorepository is a 12,526-participant community-based longitudinal cohort recruited from a 20-Zip Code region in the Southeastern United States (U.S.) that is centered in the city of Kannapolis, NC and encompasses Cabarrus County, NC.

Creation of the cohort was funded by a gift to Duke University from the David H. Murdock Institute for Business and Culture, with operational support from Duke's Clinical and Translational Science Award (CTSA) grant (UL1TR002553) and the Duke Clinical and Translational Science Institute (CTSI).

Managed by III Duke Clinical & Translational Science Institute

Consenting participants complete a baseline health questionnaire at enrollment, as well as a brief physical exam and collection of blood and urine. Consent includes permission to access to information from medical records, storage of collected samples in the biorepository, access to collected data and biospecimens for future approved research studies and contact regarding new research study opportunities.

Data have been organized into "storefronts" that summarize characteristics of a population of research interest as well as available data and samples for that population. The following sections summarize the sources of data in the MURDOCK Study database, as well as important descriptions and definitions to help understand the data presented in the "storefronts".

1 Participant self-reported data at baseline. The baseline questionnaire collects contact information, current residential street address, and primary physician; alternate contact information; date and place of birth; demographics; current or past diagnosis of 34 medical conditions; menopausal status in women; medications, vitamins and supplements; dietary and physical activity assessment; hours of sleep per night; tobacco and alcohol use; second-hand smoke exposure; and selected PROMIS® participant-reported outcomes domains. Socioeconomic data collected at baseline included marital status, highest level of education of participant and participant's mother and father, employment status, mother's and father's occupations, housing (type, how paid for, number of adults and children in the household) and total household income. In addition, a brief physical exam (vital signs, height, weight, and waist circumference) was conducted at enrollment.

Medical conditions: "Do you have, or have you ever had, any of the following [medical conditions]?" (yes, no, don't know). Counts are unique participants reporting yes to specific condition. Medications: "Please list any pharmaceutical and/or natural medications (including vitamins) that you are currently taking." Data are captured in free-text format as written by the participant and coded using RxNorm. Summary metrics are based on everything reported. Top 5 reported medications are limited to reported prescriptions.

2 Biorepository samples. Blood was collected at baseline and processed into the following specific samples: whole blood in EDTA for DNA extraction, whole blood in PAXgene for RNA extraction, plasma, serum and buffy coat in cryovials. Urine was collected and aliquoted in cryovials. Sample collection was not done systematically for MURDOCK enrollees; however, some nested sub cohorts and other studies enrolling MURDOCK registry participants include sample collection at follow up time points. All samples are stored at -80°C in a central biorepository current managed by Fisher BioServices, a division of Thermo Fisher Scientific, under a contractual agreement with Duke University.

Samples in inventory: Data are summarized by sample type as well as specific container and size. Participant counts are unique individuals with one ore more aliquots. Aliquot counts are all unique samples for a given type and container, size. Freezers is a calculation of approximate storage requirements based on sample type/size, box size, and number of boxes that can be stored per freezer.

3 Participant self-reported changes in health via annual follow up. Participants are asked to complete a follow-up form once a year around the time of their original enrollment date. Participants may update contact information, primary care physician/practice and alternate contact. PROMIS domains are repeated at each annual time point in order to capture changes in participant-reported outcomes over time. The form collects new incidence/diagnosis of the same 34 medical conditions surveyed at baseline. Hospitalizations during the past year are collected along with reason, as well as specific medical procedures. Participants may update their medication list to reflect current medications, vitamins and supplements being taken at the time of follow up form completion.

Vital status: Death reported by family member or alternate contact is confirmed by obituary as the primary source. Cause of death is not captured. Follow-up metrics: Follow-up is defined as complete if participant fills out the survey online or by mail or phone. Completeness is measured as surveys completed relative to years eligible to complete follow-up. Medical conditions: "Please indicate if you have received a new diagnosis of any of the following medical conditions in the past year (yes, no, don't know)". Counts and percentages are unique participants reporting yes to specific condition in follow-up for participants that did NOT report yes at baseline. Procedures: "Please indicate if you have any of the following medical procedures in the past year". Counts are unique participants reporting the specified procedure one or more times during follow up. Hospitalizations: Participants are asked to report if they have been hospitalized within the last year, for each hospitalization they are asked to list reason(s) for hospitalization, admission date and hospital name. Reasons for hospitalization. Medications: (see note above for medications reported at baseline). The denominator for data based on last follow-up are participants with at least one follow-up survey complete.

4 Electronic health record (EHR) data from regional healthcare providers. Duke has partnered with regional healthcare providers to integrate data from EHR systems for consented MURDOCK Study participants. Participants are identified in EHR systems with robust matching algorithms using common identifiers from the MURDOCK and EHR databases. Data are transferred under a data use agreement (DUA) with the specific provider organization which specifies the scope of data and frequency of transfers. Data availability vary by participant and depend on whether or not a participant has had one or more encounters with the healthcare provider system during the time period included in the dataset.

Available EHR datasets: Data are summarized by healthcare provider organizations. Counts are unique participants with one or more ICD codes in the EHR dataset. Available EHR domains: Data area summarized by domain in the EHR dataset. Counts are unique participants with one of more records (rows of data) for the specified domain. Insights from available EHR data: Specific EHR data related to the population of research interest is presented with granularity when possible.

5 Additional data collection from studies with MURDOCK participants. MURDOCK Study participants may be recruited to enroll in additional research study opportunities by Duke researchers or other collaborators. Data sharing is a condition of collaboration with with the MURDOCK Study; therefore, data collected from MURDOCK Study participants and/or generated from biospecimens as part of additional research studies is returned for integration with all other MURDOCK registry data.

"Storefronts" for nested sub-cohorts summarize surveys, assessments and/or other data collected specifically as part of enrollment and participation in the study. **Samples in inventory**: Samples are summarized if collected (see note above for samples collected at baseline). **Participation in other studies**: Counts are participants from the population of research interest enrolled in the specified study listed. *Brief descriptions of relevant studies are listed along with a summary of study procedures and/or data collected*.



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Memory & Cognitive Health Study (MHS), MURDOCK Study nested sub-cohort, N=1,595

DNA

Total

42 (3%)

Cryovial, 1.0 mL

994

996

24,142

0.015

0.607

Participant self-reported characteristics at MURDOCK Study enrollment (baseline, [February 2009 - June 2016])

Demographics at baseline	
Age	Baseline
Median (25 th , 75 th)	65 (60, 71)
Min, Max	49, 90+
Sex	
Female	1,048 (66%)
	547 (34%)
Race	
American Indian & Alaska Native	2 (<1%)
Asian	1 (<1%)
Black or African American	115 (7%)
Native Hawaiian & Other Pacific Islander	2 (<1%)
White/Caucasian	1,444 (91%)
Other	2 (<1%)
Multiple	20 (1%)
Don't know/Not sure/Not answered	9 (<1%)
Ethnicity	
Hispanic or Latino	12 (<1%)
Non-Hispanic or Latino	1,561 (98%)
Don't know/Not sure/Not answered	22 (1%)
Smoking history at baseline	
Smoked	772 (48%)
Never smoked	813 (51%)
Don't know, no response	10 (1%)
Current or prior medical conditions repo 25 of 34 solicited medical conditions, listed	
High cholesterol	897 (56%)
High blood pressure	819 (51%)
Osteoarthritis	498 (31%)
Obesity	466 (29%)
Depression	367 (23%)
Skin cancer, not melanoma	329 (21%)
Osteoporosis/Osteopenia	321 (20%)
Diabetes	297 (19%)
Thyroid disease	291 (18%)
Asthma	192 (12%)
Coronary artery disease	184 (12%)
Heart attack or angina	162 (10%)
Atrial fibrillation	150 (9%)
Gout	118 (7%)
Rheumatoid arthritis	116 (7%)
Other autoimmune disease	100 (6%)
Emphysema or "COPD"	86 (5%) 73 (5%)
Breast cancer	73 (5%)
Melanoma	71 (4%)
Stroke	71 (4%)
Other type of cancer	67 (4%)
Congestive heart failure	57 (4%)
Prostate cancer	54 (3%)
Kidney disease	45 (3%)

Implantable cardiac defibrillator

udy enrollmen	t (baseline, [Februa	ary 2009 - Jui	ne 2016])			
Education at	baseline					
Less than high	n school graduate			60 (4%)		
High school gr			345 (22%)			
Some college	631 (40%					
Bachelor's deg	gree		317 (20%			
Master's or hig	gher professional deg	gree	242 (15%			
Income at bas	seline					
Under \$10,000)			48 (3%)		
\$10,000-29,99	9		289 (18%)			
\$30,000-49,99	9			347 (22%)		
\$50,000-69,99	9			300 (19%)		
\$70,000-89,99	9			195 (12%)		
\$90,000 or mo	re			294 (18%)		
Don't know, no	response			122 (8%)		
Body mass in	ndex (BMI) at baseli	ne				
<18.5				11 (1%)		
18.5-24.9				406 (26%)		
25-29.9				612 (38%)		
30+				561 (35%)		
Exercise at ba	aseline					
Little to no phy	sical activity			588 (37%)		
Weekend light	219 (14%)					
Moderate activ		548 (34%)				
Heavy activity		127 (8%)				
Heavy activity	5x per week			103 (6%)		
Medications,	vitamins, suppleme	ents at baseli	ne			
Median (25 th , 7	75 th) reported			8 (5, 12)		
10+ reported,	n (%)		633 (40%)			
Top 5 reporte	d medications					
Simvastatin				299 (19%)		
Lisinopril			291 (18%)			
Levothyroxine			281 (18%			
Cholecalcifero	I			273 (17%)		
Omeprazole		271 (17%)				
Samples curr	ently in inventory (collected at b	oaseline t	ime point)		
Sample	Container, Size	Participants	Aliquots	Freezers		
Plasma	Cryovial, 0.5 mL	1,471	12,580	0.222		
Serum	Cryovial, 0.5 mL	1,387	5,796	0.102		
	Cryovial, 5.0 mL	1,445	1,445	0.051		
Whole blood	PAXgene RNA	1,237	1,821	0.106		
	Vacutainer, 2.0 mL	42	42	0.001		
Urine	Cryovial, 10.0 mL	1,364	1,364	0.108		
DALA	0 1140 1					



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Memory & Cognitive Health Study (MHS), MURDOCK Study nested sub-cohort, N=1,595

Participant status and data from MURDOCK Study follow-up surveys and electronic health records

Participant vital status	
Alive	1,310 (82%)
Deceased	285 (18%)
A.g.o.	Commonst
Age	Current
Age Median (25 th , 75 th)	75 (71, 81)

Follow-up metrics, study participation

Median (25th, 75th) months since enrollment	138 (129.25, 156)
Median (25th, 75th) years since enrollment	11 (10, 13)
Median (25th, 75th) yearly follow-ups complete	9 (6, 11)
Overall completeness of follow-up, n/N (%)	12,501/15,046 (83%)
At least one (1) follow-up survey complete, n (%)	1,547 (97%)
100% completion (n, %)	794 (50%)
Last completed follow-up ≤ 18 months	963 (60%)
Enrolled in one or more other studies	1,595 (100%)

Available EHR datasets by source (any ICD code)

Any source	743 (47%)
Novant Health	561 (35%)
Cabarrus Health Alliance	247 (15%)
Cabarrus Rowan Community Health Centers	21 (1%)
Bethesda Health Center	0
Community Free Clinic	2 (<1%)
Atrium (Carolinas Healthcare)	0

Available EHR data domains

Diagnosis	743 (47%)
Labs	593 (37%)
Vitals	562 (35%)
Medications	576 (36%)
Allergies	344 (22%)
Immunizations	286 (18%)
Problems	472 (30%)
Procedures	361 (23%)
Hospitalizations	274 (17%)

Insights from available EHR data

							_
Date range: Jul. 1993 (first encounter), Jan. 2021 (last encounter)							
Number of days between first and last encounter:							
Median (25 th , 75 th)					1,970 (202, 3203.5)		
Min, Max			0, 9,69	9			
Select phecodes, mapped from diagnosis codes							
Phecode	Description	Group)		n, ppts	;	
272.1	Hyperlipidemia	endoc	rine	/metaboli	ic	211	
401.1	Essential hypertension	circula	atory	system		202	
250.2	Type 2 diabetes	endoc	rine	/metaboli	ic	85	
244.4	Hypothyroidism NOS	endocrine/metabolic			77		
530.1	Esophagitis, GERD and related diseases	Digestive			73		
261.4	Vitamin D deficiency	endocrine/metabolic			69		
Select laboratory tests							
Test Labs Par					rticipan	ts	
Comprehensive metabolic panel				2,451		35	64
CBC and differential				2,101		33	0
Basic metabolic panel				1,513		28	9
Lipid panel				1,490		28	0
TSH				1,477		27	9
Hemoglobir	1 A1c			1,509		25	6

New medical condition diagnoses reported in follow-up

16 of 34 solicited medical conditions, listed by de	escending	frequency			
Osteoarthritis	305 /	1,097 (28%)			
Osteoporosis/Osteopenia	244 /	1,274 (19%)			
Skin cancer, not melanoma	239 /	1,266 (19%)			
High blood pressure	229	/ 776 (30%)			
High cholesterol		/ 698 (30%)			
Rheumatoid arthritis	179 / 1,479 (12%)				
Atrial fibrillation		1,445 (10%)			
Thyroid disease	131 /	1,304 (10%)			
Diabetes	130 /	1,298 (10%)			
Obesity	125 /	1,129 (11%)			
Coronary artery disease	121	/ 1,411 (9%)			
Emphysema or "COPD"	118	/ 1,509 (8%)			
Depression	116	/ 1,228 (9%)			
Kidney disease	94	/ 1,550 (6%)			
Congestive heart failure	91	/ 1,538 (6%)			
Asthma	89	/ 1,403 (6%)			
Participants reporting procedures in follow u	р				
CT or MRI scan		1,237 (78%)			
Joint x-ray		1,066 (67%)			
Chest x-ray		1,046 (66%)			
Heart/cardiac stress test		680 (43%)			
Joint replacement		334 (21%)			
Heart/cardiac catheterization		250 (16%)			
Heart/cardiac angioplasty or stent	142 (9%)				
Coronary artery bypass surgery		68 (4%)			
Hospitalizations reported in follow up					
Hospitalizations reported in follow up Participants reporting 1 or more hospitalizations					
Hospitalizations reported in follow up Participants reporting 1 or more hospitalizations Unique hospitalizations reported		912 (57%) 2,360			
Participants reporting 1 or more hospitalizations		912 (57%)			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization	Events	912 (57%) 2,360 2 (1, 3)			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i>	Events 1.053	912 (57%) 2,360 2 (1, 3) Participants			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded	1,053	912 (57%) 2,360 2 (1, 3) Participants 556			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded Surgery	1,053 226	912 (57%) 2,360 2 (1, 3) Participants 556 176			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded Surgery Knee replacement	1,053	912 (57%) 2,360 2 (1, 3) Participants 556			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded Surgery	1,053 226 178	912 (57%) 2,360 2 (1, 3) Participants 556 176 130			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded Surgery Knee replacement Hip replacement Fracture	1,053 226 178 96 81	912 (57%) 2,360 2 (1, 3) Participants 556 176 130 72 68			
Participants reporting 1 or more hospitalizations Unique hospitalizations reported Median (25 th , 75 th) hospitalizations reported Coded reasons for self-reported hospitalization <i>listed in descending frequency</i> Uncoded Surgery Knee replacement Hip replacement Fracture Body mass index (BMI) at most recent complete	1,053 226 178 96 81	912 (57%) 2,360 2 (1, 3) Participants 556 176 130 72 68 59 up			
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Memory & Cognitive Health Study (MHS), cohort-specific visits, assessments, samples

	MHS	Visit	1,	N=1	,5	96	
		~ ~ ~				0040	

(November 2011 - July 2016)

MHS Visit 1 Assessments

- Handedness questionnaire
- Memory testing history
- Montreal cognitive assessment (MoCA), version 7.1
- ADCS Cognitive function screen
- Word list memory task, recall, recognition
- Reitan trail making test Part B

MHS Visit 2, N=880

Visit time points two years following Visit 1 (September 2014 - June 2016)

MHS Visit 2 Assessments

Handedness questionnaire Memory testing history Montreal cognitive assessment (MoCA), version 7.1 ADCS - Cognitive function screen Word list memory task, recall, recognition Reitan trail making test - Part B

Specimens in inventory, collected at Visit 2								
Sample Container, Size Participants Aliquots Freezers								
Plasma	Cryovial, 0.5 mL	776	2,767	0.049				
Serum	Cryovial, 0.5 mL	501	959	0.017				
Whole blood	Vacutainer, 3.0 mL	1	1	0.000				
	Vacutainer, 6.0 mL	1	1	0.000				
Total 3,728 0.066								