

Managed by **Duke** Clinical & Translational Science Institute

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).

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 phy sical exam (vital signs, height, 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 cry ovials. Urine was collected and aliquoted in cry ovials. Serial 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 are captured as free-text responses as written by participants. Responses are coded, when possible, in order to list the most frequently reported 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.*



Breast cancer

Prostate cancer

Cervical cancer

MURDOCK Study participants with stroke, N=712

Participant self-reported characte	eristics at MURDOCK Stu	idy enrollmen	t (baseline, Februai	y 2009– Feb	ruary 201	18)	
Demographics at baseline		Education at					
Age	Baseline	Less than hig	h school graduate			86 (12%)	
Median (25th, 75th)	66 (56, 74)	High school graduate, equivalent			199 (28%)		
Min, Max	<18, 90+	Some college or associates degree		258 (36%)			
Sex		Bachelor's de	egree			109 (15%)	
Female	410 (58%)	Master's or h	igher professional de	egree		60 (8%)	
Male	302 (42%)	Income at ba	aseline				
Race		Under \$10,00	00			68 (10%)	
American Indian & Alaska Native	2 (<1%)	\$10,000-29,9	99			194 (27%)	
Asian	1 (<1%)	\$30,000-49,999		126 (18%)			
Black or African American	94 (13%)	\$50,000-69,999			108 (15%)		
Native Haw aiian & Other Pacific Islander	0	\$70,000-89,9	99			61 (9%)	
White/Caucasian	579 (81%)	\$90,000 or more			72 (10%)		
Other	15 (2%)	Don't know, r				83 (12%)	
Multiple	18 (3%)		index (BMI) at base	line		00 (1270)	
Don't know /Not sure/Not answ ered	3 (<1%)	<18.5 (under	• •			7 (1%)	
Ethnicity	5 (11,3)	,	weight) ormal weight)			150 (21%)	
Hispanic or Latino	29 (4%)	25 - 29.9 (ove	o ,			265 (37%)	
Non-Hispanic or Latino	664 (93%)	30+ (obese)	or weight)			` '	
Don't know /Not sure/Not answ ered	19 (3%)	Exercise at I	- a a alima			287 (40%)	
Smoking history at baseline	(0.0)					000 (500()	
Smoked	394 (55%)	Little to no physical activity Weekend light exercise				380 (53%)	
Neversmoked	312 (44%)	9				85 (12%)	
Don't know, no response	6 (1%)		ivity 3x per w eek			173 (24%)	
Current or prior medical conditions reported		Heavy activity 3x per w eek Heavy activity 5x per w eek				35 (5%)	
28 of 34 solicited medical conditions, listed by			•	_		32 (4%)	
High blood pressure	478 (67%)		s, vitamins, supplen	nents at base	eline		
High cholesterol	440 (62%)	Median (25th,	75th) reported			9 (6, 13)	
Stroke	360 (51%)	10+ reported	, n (%)			343 (48%)	
Depression	250 (35%)	Top 5 report	ted medications				
Obesity	236 (33%)	Lisinopril				162 (23%)	
Diabetes	211 (30%)	Omeprazole				141 (20%)	
Osteoarthritis	210 (29%)	Simvastatin				138 (20%)	
Coronary artery disease	136 (19%)	Hydrochlorothiazide				132 (19%)	
Heart attack or angina	133 (19%)	Metformin				125(18%)	
Skin cancer, not melanoma	132 (19%)		rently in inventory	(collected at	baseline		
Osteoporosis/Osteopenia Thyroid disease	124 (17%) 123 (17%)	Sample	Container, Size	Participant			
Asthma	118 (17%)	Plasma	Cryovial, 0.5 mL	650	7,197	0.127	
Rheumatoid arthritis	98 (14%)	Serum	Cryovial, 0.5 mL	652			
Atrial fibrillation	93 (13%)	C 0. C	Cryovial, 5.0 mL	583	5,169 583	0.091 0.021	
Emphysema or "COPD"	90 (13%)	Whole blood	PAXgene RNA	607		0.021	
Gout	79 (11%)	Wildio Blood	Vacutainer, 2.0 mL	205	1,280		
Congestive heart failure	62 (9%)	Buffy coat	Cryovial, 2.0 mL	0	421	0.012	
Other mental illness	53 (7%)	Urine	Cryovial, 0.5 mL		0	0.000	
Other autoimmune disease	51 (7%)	3.11.0	Cryovial, 10.0 mL	1	1	0.000	
Kidney disease	38 (5%)	Total	ory ovial, 10.0 IIL	607	607 15,258	0.048 0.374	
Multiple sclerosis	37 (5%)	70101			10,200	J.01 -	
Melanoma	36 (5%)						
Other type of cancer	36 (5%)						
Implantable cardiac defibrillator	29 (4%)						

25 (4%)

22 (3%)

16 (2%)



MURDOCK Study participants with stroke, N=712

Participant status and data from MURDOCK Stu	ly follow-up surve	ys and electronic health records
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Current Age Current Median (25th, 75th) 74 (65, 82) Min, Max 26, 90+ Follow-up metrics, study participation 5 (30, 90+ Median (25th, 75th) months since enrollment 146 (124.75, 160) Median (25th, 75th) years since enrollment 12 (10, 13) Median (25th, 75th) years since enrollment 12 (10, 13) Median (25th, 75th) yearly follow -ups complete 6 (3, 10) Overall completeness of follow -up, n/N(%) 4,259 / 6,204 (69%) At least one (1) follow -up survey complete, n (%) 643 (90%) Last completed follow -up ≤ 18 months 260 (37%) Enrolled in one or more other studies 356 (50%) Available EHR datasets by source (any ICD code) 334 (47%) Novant Health 248 (35%) Cabarrus Row an Community Health Centers 29 (4%) Bethesda Health Center 3 (<1%) Community Free Clinic 4 (1%) Available EHR data domains 4 (1%) Available BHR data domains 4 (1%)	7 352 (93%) 7 502 (27%) 7 614 (18%) 7 272 (35%) 7 588 (15%) 7 462 (19%) 7 674 (12%) 7 622 (13%) 7 580 (13%) 7 580 (13%) 7 576 (13%) 7 576 (13%) 7 589 (12%) 7 650 (10%) 7 476 (12%) 7 476 (12%) 8 552 (78%) 8 494 (69%)				
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Available EHR data domains Diagnoses 334 (47%) Labs 434 (36%) Heart/cardiac catheterization Joint replacement Heart/cardiac angioplasty or stent Coronary artery bypass surrory	413 (58%)				
Diagnoses Labs Joint replacement Heart/cardiac angioplasty or stent Coronary artery bypass surgery	327 (46%)				
Labs 254 (36%) Heart/cardiac angioplasty or stent	141 (20%)				
Corporary artery bypace surgery	124 (17%)				
Vitals 246 (35%) Coronary artery bypass surgery	95 (13%)				
Z-10 (00 /0)	48 (7%)				
Medications 260 (37%) Hospitalizations reported in follow up					
Allergies 147 (21%)	464 (65%)				
Immunizations Unique hospitalizations reported	870				
Problems 210 (29%) Median (25th, 75th) hospitalizations reported	2 (1, 4)				
Coded reasons for self-reported hospitalization	D (1.1.				
Hospitalizations 133 (10%)	Participants				
Insights from available FHR data	297				
Date range: July 1993 (first encounter). Aug. 2022 (last encounter)	166				
Number of days between first and last encounter:	74				
Median (25th, 75th) 1,490 (347.25, 2813) Knee replacement 45	36				
Min, Max 0, 9,784 Fracture 39	35				
Select phecodes, mapped from diagnosis codes Phecode Description Group n. ppts	25				
Phecode Description Group n, ppts 401.1 Essential hypertension circulatory system 100 Body mass index (BMI) at most recent completed follow	w up				
272.1 Hyperlipidemia endocrine/metabolic 94 <18.5 (underw eight)	15 (2%)				
<u> </u>	168 (26%)				
	245 (38%)				
Feenberitie CERD and	215 (33%)				
327.3 Sleep apnea Neurological 29 Medications, vitamins, supplements at most recent follogical	low up				
Select laboratory tests Median (25th, 75th) reported	9 (5, 13)				
	270 (38%)				
Comprehensive metabolic panel 1,549 157 Top 5 reported medications	, -7				
Basic metabolic panel 1,193 145	157 (22%)				
CBC and differential 1,100 145	126 (18%)				
101	116 (16%)				
TOLL 577 400	114 (16%)				
Lipid panel 534 121 Amlodipine					