

## The ARIC STUDY: Interviews and Procedures by Examination

PROCEDURES/DATA	V1 1986-90 N=15,792	V2 1990-93 N=14,348	V3 1993-95 N=12,887	V4 1995-99 N=11,656	Brain MRI AS1999.01 2004-06 N=1,067	Carotid MRI 2005-06 N=2,066	V5 2011-13 N=6,538	V5 NCS MRI AS2008.06 2011-13 N=1,968	V6 2016-17 N=4,003	V7 2018-19 N=3,589	V8 telepho ne 2020 N=3,270	V9 2021-22	V10 2022-23
<b>ANTHROPOMETRY (ANT)</b>													
HEIGHT													
Sitting Height	X												
Standing Height	X		X	X	X	X	X		X	X		X	X
FRAME SIZE													
Elbow		X											
Wrist	X												
GIRTHS													
Calf	X												
Hip	X	X	X	X		X	X		X	X		X	X
Waist	X	X	X	X		X	X		X	X		X	X
ARM CIRCUMFERENCE <sub>SBP</sub>	X	X	X	X	X	X	X	X	X	X		X	X
BIO-IMPEDANCE							X		X	X		X	X
SKINFOLDS													
Subscapular	X	X											
Triceps	X	X											
WEIGHT	X	X	X	X	X	X	X		X	X		X	X
ABILITY TO STAND							X		X	X		X	X

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HANDEDNESS		X HXB73											
MALE BALDNESS				X									
Marital Status	AFUcomp4 a_D												
<b>BLOOD PRESSURE (SBP)</b>													
Sitting (brachial)	X	X	X	X	X	X	X		X	X		X	X
Supine (brachial)	X (rose AS under source)		S	S									
Standing (brachial)	X (rose AS under source)		S	S									
Ankle	X		X	X			X						
<b>BLOOD PRESSURE MONITORING (ABPM, HBPM)</b>													AS2020.28
<b>ORTHOSTATIC HYPOTENSION</b>													AS2019.22
<b>CT SCAN (CPC, CPS, CRE, CTR)</b>										AS2016.06			
<b>GUT MICROBIOME (GMC, GMH)</b>									AS2016.15	AS2016.15			
<b>HEARING</b>									X	X		X	X

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<b>ACHIEVE HEARING INTERVENTION</b>										AS2016.03	AS2016.03	AS2016.03	
<b>ACHIEVE MRI</b>										AS2017.26	AS2017.26	AS2017.26	
<b>ACHIEVE HIFU</b>												AS2021.09	AS2021.09
<b>ACHIEVE BHFU</b>												AS2021.11	AS2021.11
<b>HEART RATE (ECG)</b>	X	X	X	X	X	X	X		X				
<b>ECHOCARDIOGRAPHY</b>													
Jackson			X										
All Field Centers							X			AS2015.34			
<b>ABDOMINAL AORTA SCAN (AAT, AAO)</b>							X						
<b>ELECTROCARDIOGRAMS</b>													
2-Minute Rhythm Strip	X												
12-Lead	X	X	X	X			X						
Heart Rate Variability	X v1ecg	X v2ecg	X v3ecg	X v4ecg									
<b>ZIOPATCH</b>									AS2015.29	AS2015.29			
<b>EPATCH</b>												AS2020.26	AS2020.26
<b>CONTINUOUS GLUCOSE MONITORING</b>												AS2020.26	AS2020.26
<b>PULSE WAVE VELOCITY</b>							X		AS2015.23	AS2015.23			

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<b>GLYCEMIC LOAD</b>				X		X			X				
<b>MEDICAL DATA REVIEW</b>	X	X	X	X			X		X				
<b>MRI</b>													
<b>CEREBRAL</b>										AS2015.32.	X	X	X
Forsyth County			X		X			X	AS2015.32				
Jackson			X		X			X	AS2015.32				
Minneapolis								X	AS2015.32				
Washington County								X	AS2015.32				
<b>CAROTID</b>						X							
<b>PET SCANS</b>								AS2009.29	AS2013.13	AS2013.13	X	X	X
<b>PYP</b>												AS2018.26	AS2018.26
<b>PERIPHERAL NEUROPATHY</b>									X				AS2021.04
<b>PERIODONTAL EXAMINATION (DSR)</b>				AS1995.06 or 1996.01?									
<b>PHYSICAL EXAMINATION (PHE)</b>													
Walking/Standing	X	X			X		X		X	X		X	X
Neck	X	X											
Cardiopulmonary	X	X											

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Lung Sounds	X	X					X						
Breast	X	X											
Lower extremities	X												
<b>GEOCODED POLUTION</b>	AS2020.09	AS2020.09	AS2020.09	AS2020.09			AS2020.09		AS2020.09	AS2020.09			
<b>SPECIMEN COLLECTION</b>													
Blood	X	X	X	X	X	X	X		X	X			
Urine				X		X	X		X	X			
Saliva						X			AS2016.15	AS2016.15			
<b>PULMONARY FUNCTION</b>													
FEV <sub>1</sub>	X	X					X						
FVC	X	X					X						
Max. Inspir. Pressure		X											
<b>RETINAL PHOTOGRAPHY</b>			X			X		X		AS2014.38			
<b>ULTRASOUND (B-MODE)</b>													
Carotid arteries	X	X	X	X									
Distensibility	X	X											
Popliteal artery	X												
<b>VENIPUNCTURE</b>													
<b>CHEMISTRIES</b>													
Glucose	X	X	X	X		X	X		X	X			

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Creatinine	X	X		X		X	X		X	X		X	X
Insulin	X			X			X						
Total Protein	X												
Glycated Albumin												X	X
Albumin	X						X		X	X		X	X
Uric Acid	X	X		X			X						
Urea Nitrogen	X												
Calcium	X												
Phosphorous	X												
Magnesium	X	X							X	X		X	X
Sodium	X	X											
Potassium	X	X							X	X		X	X
Glucose Tolerance				X									
HbA1c		AS2006.1 5					X		X	X		X	X
Thyroid Stimulating Hormone (TSH)		AS2009.1 6					X						
Thyroxine (T4)		AS2009.1 6					X						
Triiodothyronine (T3)		AS2009.1 6					X						
Anti-Thyroid Peroxidase(TPO)		AS2009.1 6					X						

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antiibody)													
Vitamin B12								X					
Vitamin D		AS2009.17											
Cystatin-C							X		X	X		X	X
High Sensitive C-Reactive Protein				AS2006.16			X		X	X		X	X
High Sensitive Troponin-T				AS2008.10			X		AS2009.16			X	X
NT-proBNP		AS2008.12/2009.16		AS2008.10			X		AS2009.16			X	X
Fructosamine									X	X		X	X
1,5-anhydroglucitol									X	X		X	X
Beta-2 Microglobulin									X	X			
Aspartate transaminase									X	X			
Alanine transaminase									X	X			
G-glutamyl transferase									X	X			
HEMOGRAM													
Hematocrit	X	X					X		X	X			
Hemoglobin	X	X					X		X	X		X	X

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Glyc. Hemoglobin												X	X
White Blood Cell Count	X	X					X		X	X			
Red Blood Cell Count							X		X	X			
Mean Cell Volume		X					X		X	X			
Platelet Count	X	X					X		X	X			
Mean Platelet Volume									X	X			
Neutrophil Count	X	X											
Neutrophil Bands	X	X											
Granulocyte							X						
Granulocyte percentage							X						
Lymphocytes	X	X					X						
Lymphocyte percentage							X						
Monocytes	X	X					X						
Monocyte percentage							X						
Eosinophils	X	X											
Basophiles	X	X											
Mean Corpuscular hemoglobin							X		X	X			
Mean Corpuscular hemoglobin							X		X	X			

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concentration													
Red cell distribution width							X		X	X			
HEMOSTASIS													
Factor VIII Chromogenic	AS2012.12	AS2012.12	AS2012.12	AS2012.12									
Factor VII	X												
Activated PTT (aPTT)	X												
Fibrinogen	X	CRS	CRS	CRS									
Von Willebrand Factor	X												
Protein C	X												
Antithrombin III (AT-III)	X												
D-Dimer			AS1998.03										
Fibrinogen			AS1998.03										
LIPIDS													
HDL Subfractions	X												
Apo AI	X	X											
Apo B	X	X		AS2006.16									
Total Cholesterol	X	X	X	X		X	X		X	X		X	X
Total Triglyceride	X	X	X	X		X	X		X	X		X	X
HDL Cholesterol	X	X	X	X		X	X		X	X		X	X

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LDL Cholesterol	X	X	X	X		X	X		X	X		X	X
Lipoprotein [a]	X			AS2010.12									
CRP		AS2009.16		AS2006.16			X		X	X		X	X
Remnant LP-C						X							
Hemoglobin A1C		AS2006.15				X							
Sickle Cell	AS2010.16												
<b>URINE SPECIMEN</b>													
<b>CHEMISTRIES</b>													
Creatinine				AS2002.02		X	X		X	X		X	X
Microalbumin				AS2002.02		X	X		X	X		X	X
Albumin/Creatinine Ratio				AS2002.02			X		X	X		X	X
<b>INTERVIEWS</b>													
Access and Quality of Care (AQC)							X						
Blood Transfusion				X									
Cognitive Function (CNF)		X	MRI	X	X	X	X						
COVID Questionnaires (COV, CVL, CVP)											AS2020.37	AS2020.37	AS2020.37
Diabetes (DQF, DTS)									X	AS2009.16			

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Dietary Intake (DTI)	X	S	X	S									
Minnesota						X							
Epworth Sleepiness Scale (ESS)									X	X			
Falls FCF, FCL, FES, FRC, FRM									X	AS2013.10			
Family History of CHD	X (HOM)	X			X								
Family History of cancer	X (HOM)												
Fasting Status (FTR)	X	X	X	X			X						
Health History (MHX,HHX)	X	X	X	X	X								
Home Interview (HOM)	X												
Inflammation (INF)				X									
Informed Consent (ICT)	X	X	X	X	X	X	X	X	X	X	X	X	X
Medication Survey (MSR)	X	X	X	X	X	X	X		X	X	X	X	X
Ophthalmic History						X							
Personal History (PHX)			X	X	X	X	X		X				
Physical Ability (PAQ)				X	X				X				
Physical Activity	X	AS1993.0 1	X		X	X	X		X	X		X	X
Physical Function (PFX)							X		X	X		X	X
Reproductive History	X	X	X	X									

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(RHX)													
Respiratory Symptoms (RPA)	X	X					X			X			
Modified SF12 Health Survey (SFE)							X		X				
Smoking and Alcohol Use (ALC)							X		X	X		X	X
Social Support	X	X	X	X									
Socioeconomic Status (SES)	AS1998.02	AS1998.02	AS1998.02	AS1998.02									
TIA/Stroke (TIA)	X	X	X	X	X	X							
Trait Anger		X		X									
Vital Exhaustion		X											
Vitamin Survey (VIT)			X		X								
<b>NEUROCOGNITIVE TESTS</b>													
Neurocognitive Test Battery (MMSE, DWR DSS WFT)					X			X	X	X		X	
CES Depression (CES)					X	X	X		X	X	X	X	X
Mini-Mental State (MME)							X		X	X		X	
Subjective Memory (SMF)							X						
Clinical Dementia Rating								X	S	X		X	

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(CDR)													
Hachinski Ischemic Scale (HIS)								X					
Neurologic History (NHX)								X	X	X		X	
Neurologic Family History (NFH)								X					
Neuropsychiatric Inventory (NPI)								X	S	X	X	X	
Physical & Neurological Exam (PNE)								X		X			
Unified Parkinson's Dis. Rating (UPR)					X			X				X	
Psychosocial Wellbeing (PSI, PSP, PWX)											X		
Income	X		X	X		X	X		X				
Marital Status-AFU													