Description of ARIC Visit 5 NCS Stage 1

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The ARIC cohort initially comprised 15,792 participants aged 45-64 years in 1987-1989, recruited from four communities: Forsyth County, NC, Jackson, MS, suburban Minneapolis, MN, and Washington County, MD. ARIC performed four examinations of the cohort between 1987 and 1998, and had followed the cohort thereafter primarily with annual telephone interviews.

Between June 1, 2011 and August 30, 2013, ARIC conducted a fifth examination, which required most of a day at a local research clinic. A shorter examination at the clinic, or at the participant's home or care facility, was substituted when necessary. ARIC staff recruited participants to the examination primarily via telephone. After informed consent, the full examination included biospecimen collection, measurement of cardiovascular risk factors, an electrocardiogram, and echocardiogram, abdominal aortic ultrasound, pulmonary function, ankle/brachial index, pulse wave velocity, and an extensive neurocognitive battery. The institutional review boards of each ARIC center approved the protocol.

Of 10,749 original cohort members deemed alive at the start of visit, 713 (6.6%) died during the 15-month recruitment period without having visit 5, leaving 10,036 who were either examined or not examined but alive through August 2013. Of these, 6,538 (age range=66 to 90 years) took part in visit 5 (5,918 full clinic exams, 228 abbreviated clinic exams, 392 home or care facility exams). The overall visit 5 response rate therefore was 65% (6,538/10,036)-- 55% in Forsyth County, 66% in Jackson, 69% in suburban Minneapolis, and 70% in Washington County.

A comparison of pre-visit 5 characteristics between responders and various non-responder groups showed that age, illness, smoking, and other heath-related factors were key determinants of response. The best average 1987-2010 health profiles and lowest mean age, not unexpectedly, were found in those who completed visit 5 (n=6,538), followed by those who refused or were unable to do visit 5 (n=3,498), followed by those who died before or during visit 5 (n=5,756), who on average had been the oldest and least healthy cohort members.   Table R9 details cohort characteristics.

ARIC Visit 5 Recruitment and Data Management Report
Table R9. Characteristics of the Cohort by Participant Status
Based on Data Retrieved January 22, 2014

Description	Category	Died Before V5 (N=5043)		V5 Done (N=6538)		Eligible for V5 but Died before V5 Done (N=713)		Refused (N=3498)	
		N	%*	N	%*	N	%*	N	%*
Field center	F	1235	31	1433	36	193	5	1174	29
	J	1444	39	1416	38	153	4	715	19
	M	1057	26	1915	48	177	4	860	21
	W	1307	33	1774	44	190	5	749	19
Baseline age category	44-50	818	16	2924	58	147	3	1194	23
	51-57	1590	28	2452	44	235	4	1304	23
	>57	2635	51	1162	23	331	6	1000	20
Age category at V5	Missing	5043	55	0	0	712	8	3496	38
	65-73	0	0	2611	100	0	0	2	0
	74-80	0	0	2556	100	0	0	0	0
	>80	0	0	1371	100	1	0	0	0
Sex	F	2286	26	3845	44	359	4	2222	26
	M	2757	39	2693	38	354	5	1276	18
Race	A	4	11	12	34	2	6	17	49
	B	1643	38	1544	36	180	4	901	21
	I	6	43	6	43	0	0	2	14
	W	3390	30	4976	43	531	5	2578	22

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		N	*%**	*N*	*%**	*N*	*%**	*N*	*%**
Baseline prevalent CHD	Missing	**141**	41	**130**	38	**13**	4	**60**	17
	N	**4375**	30	**6284**	43	**668**	5	**3355**	23
	Y	**527**	69	**124**	16	**32**	4	**83**	11
Baseline prevalent stroke	Missing	**1284**	35	**1479**	40	**169**	5	**738**	20
	N	**3603**	30	**4983**	42	**533**	5	**2717**	23
	Y	**156**	55	**76**	27	**11**	4	**43**	15
Baseline Smoking	Missing	**3**	0	**5**	0	**2**	0	**1**	0
	Current smoker	**1934**	47	**1170**	28	**208**	5	**820**	20
	Former smoker	**1588**	31	**2166**	43	**246**	5	**1072**	21
	Never smoke	**1517**	23	**3194**	49	**256**	4	**1605**	24
	Unknown	**1**	20	**3**	60	**1**	20	**0**	0
Baseline high BP	Missing	**33**	36	**38**	42	**8**	9	**12**	13
	N	**2970**	27	**5091**	46	**452**	4	**2542**	23
	Y	**2040**	44	**1409**	30	**253**	5	**944**	20

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		N	*%**	*N*	*%**	*N*	*%**	*N*	*%**
Baseline diabetes	Missing	**53**	38	**49**	36	**4**	3	**32**	23
	N	**4033**	29	**6189**	44	**625**	4	**3246**	23
	Y	**957**	61	**300**	19	**84**	5	**220**	14
Prior ARIC incident CHD event	N	**3537**	28	**5684**	44	**531**	4	**3027**	24
	Y	**1506**	50	**854**	28	**182**	6	**471**	16
Prior ARIC incident HF event	Missing	**526**	51	**275**	26	**54**	5	**184**	18
	N	**2944**	24	**5888**	48	**489**	4	**3047**	25
	Y	**1573**	66	**375**	16	**170**	7	**267**	11
Prior ARIC incident stroke event	N	**4362**	30	**6327**	43	**636**	4	**3309**	23
	Y	**681**	59	**211**	18	**77**	7	**189**	16
Attended visit 4	N	**2371**	57	**433**	10	**159**	4	**1173**	28
	Y	**2672**	23	**6105**	52	**554**	5	**2325**	20
Had been lost to follow-up before V5	N	**5043**	33	**6470**	42	**712**	5	**3071**	20
	Y	**0**	0	**68**	14	**1**	0	**427**	86
Living in nursing home before V5	Missing	**4772**	100	**0**	0	**0**	0	**3**	0
	N	**250**	2	**6514**	60	**665**	6	**3420**	32
	Y	**21**	13	**24**	14	**48**	29	**75**	45

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		N	*%**	*N*	*%**	*N*	*%**	*N*	*%**
Lives within ARIC field center boundaries before V5	Missing	**4775**	100	**0**	0	**0**	0	**3**	0
	N	**86**	3	**1254**	47	**195**	7	**1128**	42
	Y	**182**	2	**5284**	63	**518**	6	**2367**	28
Possibly permanently resident out of state before V5	Missing	**4772**	100	**0**	0	**0**	0	**3**	0
	N	**243**	2	**6108**	61	**642**	6	**3042**	30
	Y	**28**	3	**430**	44	**71**	7	**453**	46
Self-reported health before V5	Missing	**117**	0	**0**	0	**0**	0	**1**	0
	Excellent	**393**	14	**1635**	60	**77**	3	**620**	23
	Fair	**1665**	43	**1111**	29	**243**	6	**821**	21
	Good	**1490**	20	**3654**	50	**295**	4	**1870**	26
	Poor	**1378**	77	**138**	8	**98**	5	**186**	10

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		N	%*	N	%*	N	%*	N	%*
Prior AFU interview via proxy/informant before V5	N	4964	32	6459	42	616	4	3301	22
	Y	79	17	79	17	97	21	197	44
Definite prevalent HF at V5	N	3927	28	6163	44	545	4	3251	23
	Y	1116	59	375	20	168	9	247	13
Definite or possible prevalent HF at V5	N	3089	26	5408	46	439	4	2856	24
	Y	1954	49	1130	28	274	7	642	16
Self-reported hypertension before V5 [1]	Missing	0	0	2	1	0	0	211	99
	N	0	0	2168	68	0	0	1007	32
	Y	0	0	4368	66	0	0	2280	34
Self-reported diabetes before V5 [1]	Missing	0	0	2	1	0	0	211	99
	N	0	0	5126	67	0	0	2510	33
	Y	0	0	1410	64	0	0	777	36
Self-reported smoking before V5 [1]	Missing	0	0	2	1	0	0	211	99
	N	0	0	6217	67	0	0	3014	33
	Y	0	0	319	54	0	0	273	46

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