

Supplementary Online Content

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eTable 1. Cardiovascular and MRI Characteristics (in 2010-2012) by A β Status at Follow-up (2010-2012) Using IO Methods

	Follow-up 2010-12 (n=81)				Unadjusted p-value	Adjusted p-value
	A β -positive (n=61)		A β -negative (n=20)			
	<i>n</i>	%	<i>n</i>	%		
History CVD	21	34%	5	25%	0.8558	0.4194
Abnormal EKG	27	45%	10	50%	0.4240	0.4561
Brain infarcts present	6	10%	2	10%	0.9999	0.9981
	<i>median</i>	<i>[25th, 75th]</i>	<i>median</i>	<i>[25th, 75th]</i>		
Normalized WMH volume*	0.0078	[0.0021, 0.0137]	0.0048	[0.0019, 0.0097]	0.3084	0.8497

A β -status determined using iterative outlier approach (SUVR=1.57)

Unadjusted p-value from Fisher exact and Mann-Whitney U tests

p-value from logistic regression model adjusted for age and gender

*A β -positive, n=49; A β -negative, n=20, [25th, 75th] represents percentiles of the WMH volume distribution

eTable 2. Baseline (2009) Sample Characteristics by A β Status at Follow-up (2010-2012) Using SKM Methods

	Follow-up 2010-12 (n=81)				Unadjusted p-value	Adjusted p-value
	A β -positive (n=46)		A β -negative (n=35)			
	<i>mean</i>	<i>std</i>	<i>mean</i>	<i>std</i>		
Age	87.7	3.1	86.9	2.3	0.2066	0.1724
Body mass index	26.4	4.5	26.4	5.1	0.9686	0.9403
	<i>n</i>	<i>%</i>	<i>n</i>	<i>%</i>		
Women	15	32%	12	35%	0.7503	0.9403
ApoE4 allele (n=85)	11	23%	1	3%	0.0297	0.0141
Anihypertensive use	32	68%	23	68%	0.8052	0.8240
Mild cognitive impairment	10	21%	3	9%	0.1434	0.1519

A β -status determined using sparse k-means approach (SUVR=1.67)

unadjusted p-value from Fisher exact test

p-value from logistic regression model adjusted for age and gender

eTable 3. Cardiovascular and MRI Characteristics (in 2010-2012) by A β Status at Follow-up (2010-2012) Using SKM Methods

	Follow-up 2010-12 (n=81)				Unadjusted p-value	Adjusted p-value
	A β -positive (n=46)		A β -negative (n=35)			
	<i>n</i>	%	<i>n</i>	%		
History CVD	20	43%	6	18%	0.0211	0.0120
Abnormal EKG	21	45%	16	47%	0.8321	0.7831
Brain infarcts present	4	9%	4	12%	0.8469	0.8869
	<i>median</i>	<i>[25th, 75th]</i>	<i>median</i>	<i>[25th, 75th]</i>		
Normalized WMH volume*	0.0078	[0.0018, 0.0142]	0.0065	[0.0021,0.0126]	0.9824	0.7003

A β -status determined using sparse k-means approach (SUVR=1.67), [25th, 75th] represents percentiles

Unadjusted p-value from chi-square and Mann-Whitney U tests

p-value from logistic regression model adjusted for age and gender

*A β -positive, n=35; A β -negative, n=34

eTable 4. Vascular Measures (2011) and Baseline Amyloid Status (2009) Using SKM Methods

	Baseline 2009 (n=91)				Unadjusted p-value	Model 1 per 1 SD OR(95%CI)		
	A β -positive (n=35)		A β -negative (n=56)					
	mean	std	mean	std				
<i>Cardiovascular measures</i>								
baPWV (cm/s)	1950	314	1759	278	0.0032	1.94	(1.19, 3.17)	
cfPWV (cm/s)	1581	457	1555	670	0.8443	1.08	(0.69, 1.69)	
hfPWV (cm/s)	1411	310	1343	261	0.2742	1.30	(0.83, 2.04)	
faPWV (cm/s)	1109	129	1061	204	0.1755	1.26	(0.81, 1.98)	
Pulse rate (beats/min)	61	9	60	12	0.7750	1.05	(0.66, 1.66)	
SBP (mmHg)	140	15	133	21	0.0851	1.47	(0.91, 2.39)	
DBP (mmHg)	72	9	69	11	0.1647	1.41	(0.89, 2.24)	
PP (mmHg)	68	12	64	16	0.1952	1.30	(0.80, 2.11)	

A β -status determined using sparse K-means approach (SUVR=1.67)

Unadjusted p-value from chi-square test

Model 1 adjusted for age, gender, BMI and anti-hypertensive medications.

eTable 5. Vascular Measures (2011) and Follow-up Amyloid Status (2010-2012) Using SKM Methods

	Follow-up 2010-12 (n=81)				Unadjusted p-value	Model 1 <i>per 1 SD</i> OR(95%CI)		
	A β -positive (n=46)		A β -negative (n=35)					
	<i>mean</i>	<i>std</i>	<i>mean</i>	<i>std</i>				
<i>Cardiovascular measures</i>								
baPWV (cm/s)	1923	288	1683	263	0.0009	2.90	(1.57, 5.35)	
cfPWV (cm/s)	1705	695	1375	399	0.0215	2.21	(1.11, 4.40)	
hfPWV (cm/s)	1420	286	1300	244	0.0601	1.69	(0.99, 2.89)	
faPWV (cm/s)	1122	202	1025	150	0.0288	2.03	(1.08, 3.83)	
Pulse rate (beats/min)	60	13	60	10	0.8947	0.99	(0.62, 1.58)	
SBP (mmHg)	138	17	130	22	0.0745	1.60	(0.95, 2.69)	
DBP (mmHg)	71	10	69	11	0.5054	1.18	(0.75, 1.86)	
PP (mmHg)	67	14	61	14	0.0530	1.73	(1.00, 2.98)	

A β -status determined using sparse K-means approach (SUVR=1.67)

Unadjusted p-value from chi-square test

Model 1 adjusted for age, gender, BMI and anti-hypertensive medications.