	Neither speak	Speak Japanese but						
	nor read	do not read	Both speak and					
Outcome	Japanese	Japanese	read Japanese					
Hypertension (defined as $BP \ge$	1.09 (0.54-1.40)	1 (reference)	1.16 (0.90-1.50)					
140/90 or on an antihypertensive								
medication)								
Hypertension (defined as BP \geq	1.00 (0.80-1.25)	1 (reference)	0.96 (0.77-1.21)					
160/95 or on an antihypertensive								
medication)								
Diabetes	0.83 (0.61-1.15)	1 (reference)	0.91 (0.66-1.25)					
Parkinsonism* (probable or possible)	1.42 (0.72-2.77)	1 (reference)	0.94 (0.46-1.92)					
Stroke (any self-report)	0.89 (0.60-1.31)	1 (reference)	0.77 (0.51-1.16)					
* Note that these models are somewhat	* Note that these models are somewhat unstable due to the extremely small number of							
cases - total of 28 across all 3 groups								

eTable 1. Associations between health conditions and exposure status, adjusted for age and education:

	Spoke but did not read										
	Neitr	•			Japanese (reference)		Both spo	ke and read	lananasa		
		<u>Japanese</u>	Percent			Percent	<u>Doin spo</u>		Percent		
Number of		n with this			n with this			n with this			
years of			number or		number or		r	number or number or			
education	n	fewer	fewer	n	fewer	fewer	n	fewer	fewer		
2	0	0	0%	1	1	0%	4	4	1%		
3	1	1	0%	8	9	0%	6	10	1%		
4	2	3	1%	21	30	2%	8	18	2%		
5	6	9	2%	14	44	2%	16	34	5%		
6	15	24	4%	69	113	6%	37	71	10%		
7	17	41	7%	91	204	11%	32	103	14%		
8	107	148	26%	344	548	30%	127	230	31%		
9	78	226	40%	250	798	43%	75	305	42%		
10	32	258	46%	112	910	49%	30	335	46%		
11	16	274	49%	56	966	52%	17	352	48%		
12	182	456	81%	584	1,550	84%	181	533	73%		
13	16	472	84%	52	1,602	87%	27	560	77%		
14	25	497	89%	79	1,681	91%	47	607	83%		
15	6	503	90%	20	1,701	92%	17	624	85%		
16	34	537	96%	90	1,791	97%	61	685	94%		
17	13	550	98%	23	1,814	98%	16	701	96%		
18	5	555	99%	19	1,833	99%	9	710	97%		
19	3	558	99%	8	1,841	100%	10	720	98%		
20	1	559	100%	5	1,846	100%	9	729	100%		
21	0	559	100%	0	1,846	100%	1	730	100%		
22	1	560	100%	0	1,846	100%	0	730	100%		
23	0	560	100%	0	1,846	100%	1	731	100%		
24	1	561	100%	1	1,847	100%	0	731	100%		

eTable 2. Educational attainment in years according to exposure status

		spoke nor apanese	Spoke bu read Ja <u>(refer</u> e	panese	Both spoke and read	
	n	%	n	%	n	%
Entirely English no problems with language	430	98%	1444	95%	515	89%
English, but some language problems encountered	9	2%	58	4%	31	5%
English, validity uncertain or poor	1	0%	3	0%	5	1%
Mixed, with HHP interpreter	0	0%	2	0%	9	2%
Mixed; interviewer spoke Japanese and English	0	0%	3	0%	4	1%
Mixed: with family member/friend interpreter	0	0%	3	0%	3	1%
Japanese; interviewer spoke Japanese	0	0%	1	0%	1	0%
Japanese; with HHP interpreter (full translation)	0	0%	1	0%	10	2%
Missing	121		332		153	
Total	561		1847		731	

eTable 3. Data available regarding language use during the interview stratified by exposure group*.

* HHP refers to Honolulu Heart Program

eTable 4. Comparison of responses to Japanese language questions at Examination 1 (1965) and Examination 5 (1994-1996)

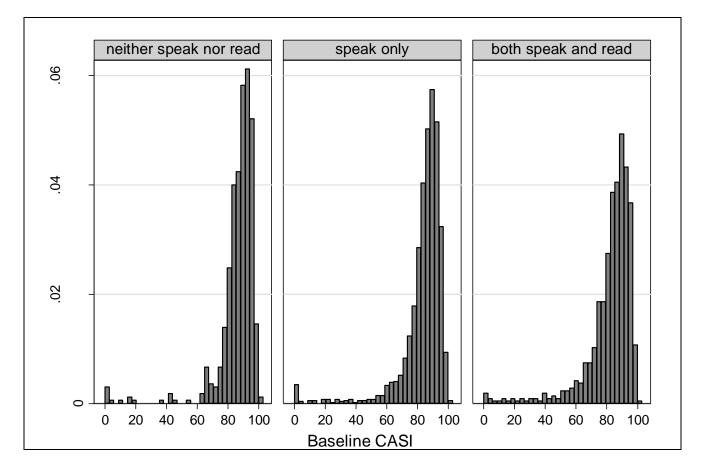
		Neither spoke nor read	Spoke only	Both spoke and read	Total
	Neither spoke nor	143 (47%)	280 (59%)	55 (12%)	478
Honolulu Asia Aging	read	110 (1770)	200 (0770)	00 (12/0)	
Study Examination 5	Spoke but did not	159 (52%)	639 (64%)	193 (19%)	991
<u>(1994-1996,</u>	read	137 (3270)	037 (0470)	195 (1970)	<i>))</i> 1
ages 75-96)	Both spoke and	2 (1%)	20 (7%)	256 (92%)	278
	read	2(170)	20 (770)	230 (9270)	210
	Total	304	939	504	1747

Honolulu Heart Program Examination 1 (1965, ages 46-65)

eTable 5. Results of sensitivity analyses limiting the analyses to those with income data and when including income category in the model*

		Neither spoke nor read Japanese		Spoke but did not read Japanese (reference)			Both spoke and read Japanese			
	n or person- years	Any dementia	AD	Vascular dementia	Any dementia	AD	Vascular dementia	Any dementia	AD	Vascular dementia
Analysis 1										
As reported in Table 3	3,139	0.78	0.48	0.96	1	1	1	1.80	2.07	1.22
Limited to those with reported income	2,715	0.64	0.58	0.95	1	1	1	2.46	3.03	1.91
Adjusted for income Analysis 2	2,715	0.64	0.57	0.95	1	1	1	2.46	3.03	1.91
As reported in Table 3	13,838	0.68	0.79	0.47	1	1	1	1.03	0.84	1.22
Limited to those with reported income	12,746	0.65	0.80	0.44	1	1	1	0.99	0.85	1.39
Adjusted for income	12,746	0.65	0.80	0.43	1	1	1	0.99	0.85	1.37
As reported in Table 3	7,178	0.88	0.74	1.66	1	1	1	1.01	0.86	1.47
Limited to those with reported income	6,652	0.88	0.76	1.37	1	1	1	0.89	0.68	1.96
Adjusted for income	6,652	0.89	0.77	1.40	1	1	1	0.89	0.68	1.99

* AD = Alzheimer disease. This table shows results of analyses as reported in Table 3 (first row), limited to those with data for reported income (second row) and adjusting for income category (third row) for Analyses 1, 2, and 3a. Entries in these cells represent the point estimate of the odds ratio (Analysis 1) and hazard ratios (Analysis 2 and Analysis 3). Corresponding 95% confidence intervals were slightly wider than those reported in Table 3, as expected given the smaller numbers when limiting to individuals with data for income. Comparing the second and third rows, the largest change was for vascular dementia outcomes in Analysis 3a, which changed by 0.03 for those who neither spoke nor read Japanese and by 0.03 for those who both spoke and read Japanese. All other changes were smaller than this negligible change when including income category.



eFigure. Distribution of baseline Cognitive Abilities Screening Instrument (CASI) scores by exposure status