

Figure E1

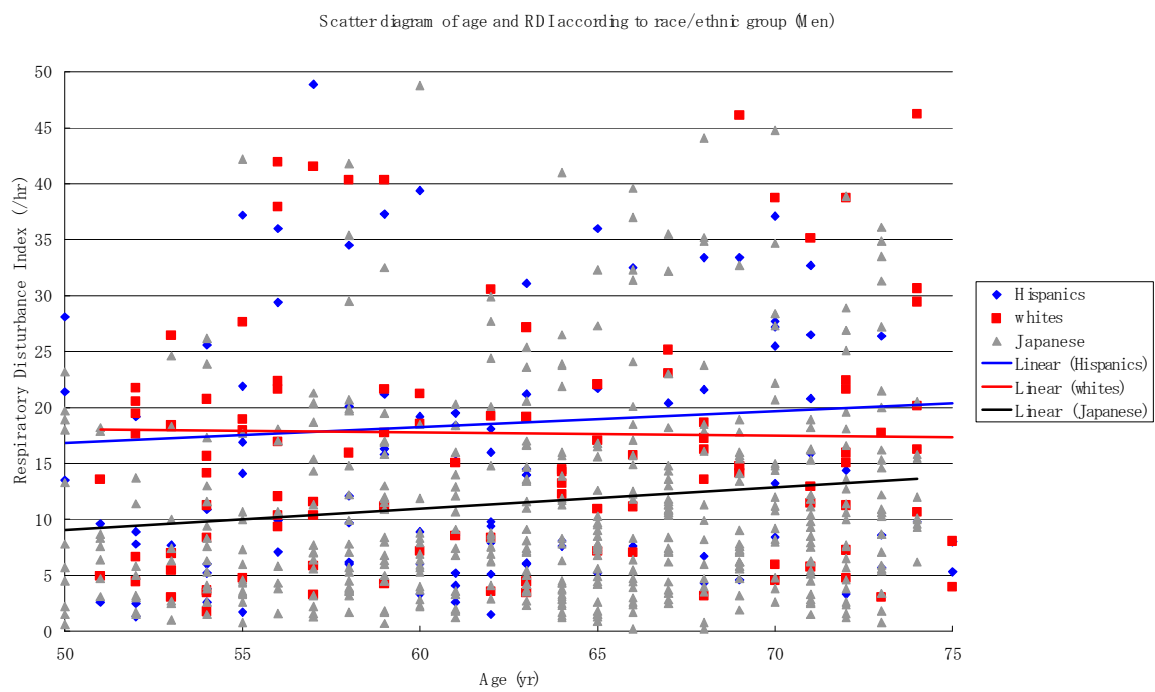
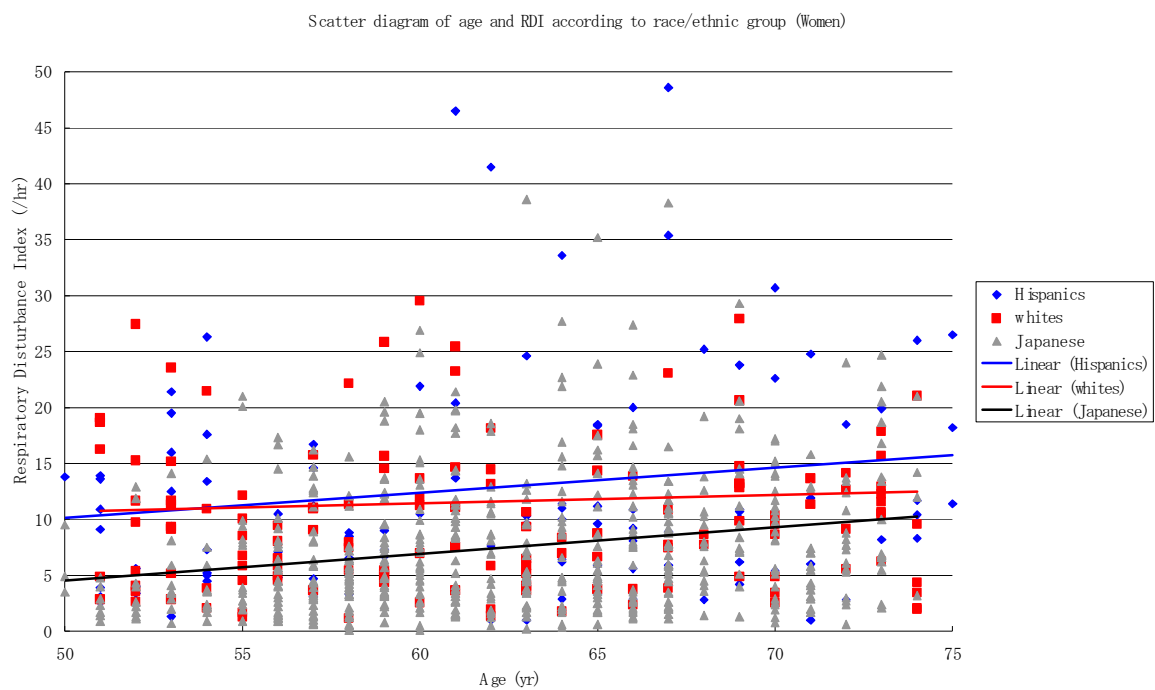


Figure E2

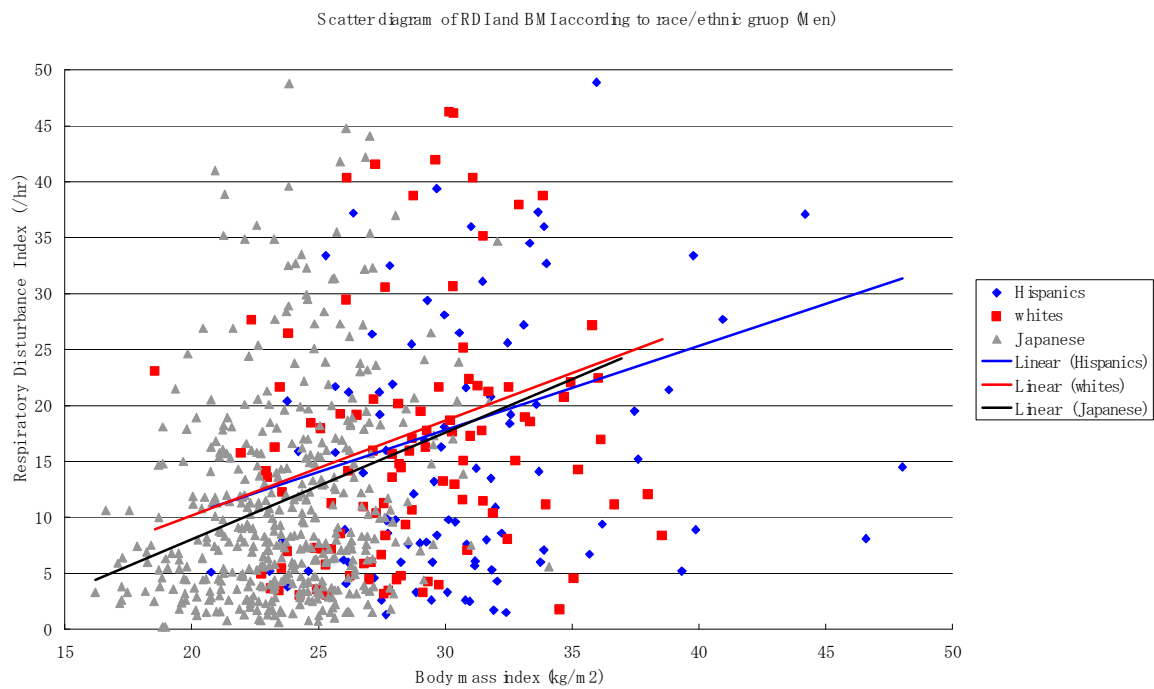
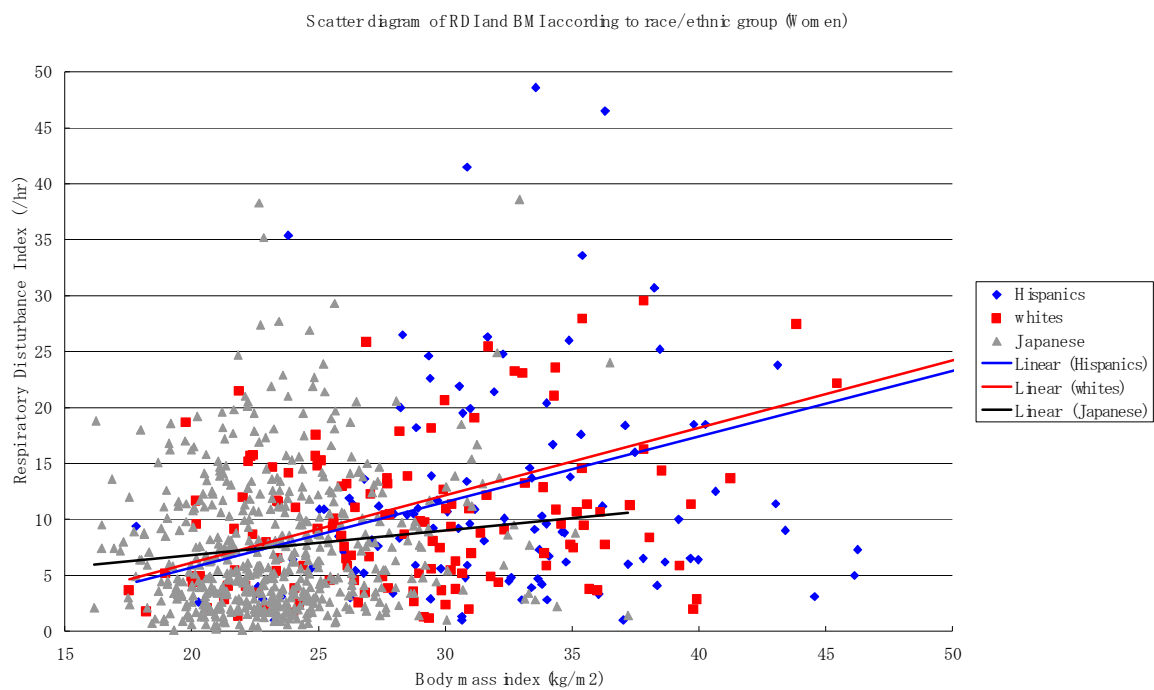


Table E1. Race/ethnicity- and sex-specific prevalences and odds ratios of self-reported snoring according to body mass index, MESA and CIRCS, aged 50-74.

BMI	White			African-American			Hispanic			Japanese		
	Number	Snore	OR‡	Number	Snore	OR‡	Number	Snore	OR‡	Number	Snore	OR‡
Men												
<17.5	1	-	-	1	-	-	0	-	-	17	17.7%	-
17.5-19.9	5	-	-	5	-	-	0	-	-	199	14.1%	0.58 (0.37-0.90)
20.0-22.4	30	6.7%	0.33 (0.07-1.52)	19	5.3%	-	18	16.7%	-	519	15.4%	0.62 (0.46-0.83)
22.5-24.9	93	17.2%	1.0	43	25.6%	1.0	36	19.4%	1.0	772	23.2%	1.0
25.0-27.4	167	28.1%	1.77 (0.93-3.35)	89	20.2%	0.79 (0.33-1.91)	77	31.2%	2.16 (0.81-5.74)	495	26.5%	1.20 (0.93-1.57)
27.5-29.9	133	27.1%	1.72 (0.88-3.35)	77	20.8%	0.73 (0.29-1.81)	87	37.9%	2.94 (1.13-7.60)	175	42.3%	2.50 (1.77-3.54)
30.0-32.4	109	33.0%	2.30 (1.17-4.52)	74	33.8%	1.48 (0.62-3.53)	80	50.0%	4.89 (1.87-12.8)	34	41.2%	2.29 (1.13-4.66)
32.5-34.9	58	32.8%	2.17 (0.99-4.73)	43	37.2%	1.89 (0.73-4.87)	34	52.9%	5.54 (1.86-16.5)	12	41.7%	-
≥35.0	55	43.6%	3.74 (1.73-8.09)	51	62.8%	5.15 (2.02-13.1)	36	50.0%	5.09 (1.70-15.2)	2	-	-
Women												
<17.5	0	-	-	0	-	-	0	-	-	70	4.3%	0.47 (0.15-1.54)
17.5-19.9	23	8.7%	-	0	-	-	4	-	-	348	5.5%	0.55 (0.33-0.92)
20.0-22.4	87	9.2%	0.31 (0.13-0.74)	22	18.2%	-	10	0.0%	-	909	7.7%	0.85 (0.62-1.18)
22.5-24.9	117	22.2%	1.0	32	12.5%	1.0	42	21.4%	1.0	1027	8.9%	1.0
25.0-27.4	117	18.0%	0.83 (0.43-1.61)	64	15.6%	1.44 (0.41-5.03)	50	20.0%	1.20 (0.42-3.44)	577	10.6%	1.22 (0.87-1.72)
27.5-29.9	82	19.5%	0.86 (0.42-1.77)	83	20.5%	1.83 (0.56-5.98)	67	41.8%	3.20 (1.26-8.12)	294	22.8%	3.00 (2.11-4.26)
30.0-32.4	56	21.4%	0.98 (0.45-2.16)	58	24.1%	2.21 (0.66-7.45)	58	27.6%	1.50 (0.56-4.03)	92	20.7%	2.78 (1.60-4.83)
32.5-34.9	44	36.4%	2.04 (0.95-4.41)	48	31.3%	3.19 (0.94-10.8)	45	42.2%	3.15 (1.17-8.49)	25	16.0%	-
≥35.0	95	40.0%	2.50 (1.34-4.66)	128	41.4%	4.96 (1.62-15.1)	87	44.8%	3.48 (1.42-8.53)	15	40.0%	-

*Snore was defined as 'frequently' in MESA, and as 'almost every day' in CIRC.

Participants who replied 'don't know' were excluded

‡ Odds ratios were adjusted for age, sex, and amount of daily alcohol consumption.

OR: odds ratio, BMI: body mass index

Table E2. Race/ethnicity- and sex-specific prevalences and odds ratios of self-reported nocturnal apnea according to body mass index, MESA and CIRCS, aged 50-74.

BMI	White			African-American			Hispanic			Japanese		
	Number	Apnea	OR‡	Number	Apnea	OR‡	Number	Apnea	OR‡	Number	Apnea	OR‡
Men												
<17.5	1	-	-	1	-	-	0	-	-	16	0.0%	-
17.5-19.9	6	-	-	5	-	-	1	-	-	193	11.9%	0.92 (0.56-1.50)
20.0-22.4	32	18.8%	0.68 (0.24-1.87)	18	22.2%	-	16	12.5%	-	512	11.1%	0.82 (0.58-1.16)
22.5-24.9	89	25.8%	1.0	41	29.3%	1.0	36	13.9%	1.0	757	13.6%	1.0
25.0-27.4	150	31.3%	1.21 (0.66-2.19)	82	31.7%	1.04 (0.45-2.38)	75	32.0%	3.15 (1.07-9.29)	477	15.3%	1.17 (0.84-1.62)
27.5-29.9	123	39.0%	1.82 (0.99-3.33)	70	34.3%	1.22 (0.52-2.85)	87	29.9%	2.71 (0.93-7.86)	168	17.9%	1.37 (0.87-2.15)
30.0-32.4	104	46.2%	2.30 (1.24-4.27)	64	37.5%	1.38 (0.59-3.25)	71	46.5%	5.86 (1.99-17.3)	32	50.0%	6.31 (3.04-13.1)
32.5-34.9	51	35.3%	1.44 (0.67-3.07)	35	37.1%	1.40 (0.53-3.69)	36	50.0%	7.43 (2.28-24.2)	11	36.4%	-
≥35.0	47	42.6%	2.29 (1.07-4.92)	41	61.0%	3.59 (1.39-9.27)	32	46.9%	6.16 (1.81-20.9)	2	-	-
Women												
<17.5	0	-	-	0	-	-	0	-	-	72	2.8%	1.19 (0.28-5.11)
17.5-19.9	28	14.3%	-	1	-	-	4	-	-	347	0.9%	0.34 (0.10-1.12)
20.0-22.4	92	19.6%	1.17 (0.57-2.36)	24	8.3%	-	16	43.8%	-	908	3.0%	1.21 (0.70-2.11)
22.5-24.9	125	16.8%	1.0	31	19.4%	1.0	43	20.9%	1.0	1024	2.4%	1.0
25.0-27.4	107	17.8%	1.01 (0.51-2.01)	61	24.6%	1.20 (0.40-3.64)	59	25.4%	1.17 (0.45-3.05)	567	3.2%	1.23 (0.66-2.30)
27.5-29.9	85	27.1%	1.71 (0.87-3.39)	89	32.6%	2.16 (0.78-5.93)	66	25.8%	1.29 (0.51-3.29)	291	5.8%	2.45 (1.30-4.62)
30.0-32.4	61	32.8%	2.26 (1.10-4.64)	54	29.6%	1.81 (0.62-5.33)	55	30.9%	1.52 (0.59-3.95)	91	8.8%	3.86 (1.68-8.87)
32.5-34.9	46	39.1%	2.92 (1.36-6.27)	49	26.5%	1.58 (0.52-4.79)	45	31.1%	1.48 (0.55-3.97)	21	9.5%	-
≥35.0	75	42.7%	3.42 (1.75-6.69)	131	32.1%	2.09 (0.78-5.59)	78	46.2%	2.75 (1.14-6.63)	13	0.0%	-

*Apnea was defined as 'rarely' or more in MESA, and as 'sometimes' or more in CIRC.

Participants who replied 'don't know' were excluded

‡ Odds ratios were adjusted for age, sex, amount of daily alcohol consumption, and smoking status.

OR: odds ratio, BMI: body mass index

Table E3. Characteristics (mean and prevalence) of participants and non-participants, Minnesota MESA and CIRCS.

	MESA			CIRCS		
	Participant s	Non-participants	p for difference	Participants	Non-participants	p for difference
Number	457	263		978	5255	
Age*, year	60.8	61.1	0.65	62.9	64.8	<0.001
Male sex*, %	46	54	0.04	45‡	38	<0.001
White race*, %	54	60	0.08	-	-	
Body mass index, kg/m ²	29.9	30.4	0.19	23.5	23.5	0.78
Current drinker, %	55	57	0.68	40	35	0.001
Current smoker, %	14	16	0.44	13	15	0.04
Snore†, %	31	27	0.34	16	15	0.42
Nocturnal apnea†, %	37	37	0.95	6	8	0.14

Age, sex and race/ethnicity-adjusted values for MESA, and age and sex-adjusted values for CIRCS were presented unless otherwise specified.

* Unadjusted.

† Snore and nocturnal apnea were based on questionnaire.

‡ Male participants were intentionally oversampled in CIRCS.