

Supplemental Table 2. Prevalence of overweight/obesity among breakfast eaters/skippers and risk of childhood overweight/obesity

	Age of confirming children's breakfast skipping							
	2.5 ages	3.5 ages	4.5 ages	7 ages	8 ages	9 ages	10 ages	11 ages
No. of Breakfast skipper	4 019 (11.6%)	4 287 (12.4%)	6 777 (19.3%)	1 057 (3.3%)	1 073 (3.4%)	231 (0.7%)	254 (0.8%)	534 (1.9%)
5.5 ages								
Overweight/obesity in eater	848 (3%)	844 (3%)	719 (3%)					
Overweight/obesity in skipper	139 (4%)	147 (4%)	254 (4%)					
OR (95% CI)	1.20 (1.00-1.44)	1.15 (0.96-1.38)	1.38 (1.19-1.60)					
7 ages								
Overweight/obesity in eater	1 481 (5%)	1 463 (5%)	1 257 (5%)					
Overweight/obesity in skipper	269 (8%)	297 (8%)	481 (8%)					
OR (95% CI)	1.40 (1.22-1.60)	1.42 (1.24-1.62)	1.60 (1.43-1.79)					
8 ages								
Overweight/obesity in eater	1 649 (6%)	1 622 (6%)	1 371 (5%)	1 747 (6%)				
Overweight/obesity in skipper	298 (8%)	333 (9%)	553 (9%)	102 (10%)				
OR (95% CI)	1.39 (1.22-1.58)	1.44 (1.27-1.63)	1.71 (1.54-1.90)	1.58 (1.28-1.96)				
9 ages								
Overweight/obesity in eater	1 948 (7%)	1 936 (7%)	1 608 (6%)	2 077 (7%)	2 078 (7%)			
Overweight/obesity in skipper	354 (10%)	375 (10%)	668 (12%)	134 (14%)	124 (12%)			
OR (95% CI)	1.42 (1.26-1.60)	1.39 (1.24-1.57)	1.78 (1.62-1.96)	1.81 (1.49-2.19)	1.59 (1.31-1.93)			
10 ages								
Overweight/obesity in eater	2 086 (8%)	2 041 (8%)	1 692 (7%)	2 232 (8%)	2 236 (8%)	2 366 (8%)		
Overweight/obesity in skipper	380 (11%)	422 (11%)	725 (13%)	141 (15%)	144 (15%)	42 (19%)		
OR (95% CI)	1.39 (1.24-1.57)	1.47 (1.32-1.65)	1.85 (1.68-2.03)	1.71 (1.42-2.07)	1.74 (1.44-2.09)	2.31 (1.64-3.27)		
11 ages								
Overweight/obesity in eater	2 085 (8%)	2 040 (8%)	1 718 (7%)	2 248 (8%)	2 247 (8%)	2 384 (8%)	2 365 (8%)	
Overweight/obesity in skipper	375 (11%)	416 (12%)	716 (13%)	134 (15%)	143 (15%)	42 (20%)	41 (17%)	
OR (95% CI)	1.41 (1.25-1.59)	1.46 (1.31-1.64)	1.81 (1.64-1.99)	1.68 (1.39-2.03)	1.77 (1.47-2.13)	2.33 (1.65-3.30)	2.03 (1.44-2.87)	
12 ages								
Overweight/obesity in eater	1 708 (7%)	1 644 (6%)	1 395 (6%)	1 800 (7%)	1 822 (7%)	1 943 (7%)	1 946 (7%)	1 843 (7%)
Overweight/obesity in skipper	302 (9%)	361 (10%)	598 (11%)	123 (13%)	125 (13%)	33 (16%)	29 (12%)	68 (13%)
OR (95% CI)	1.39 (1.22-1.58)	1.60 (1.41-1.80)	1.85 (1.67-2.06)	1.89 (1.54-2.30)	1.87 (1.53-2.27)	2.21 (1.51-3.25)	1.60 (1.08-2.39)	1.77 (1.36-2.30)

The reference group was the breakfast eaters of each year.

The overweight/obesity was defined as more than 120% of sex- and age-specific ideal weight which is commonly used in Japan.

No data of overweight/obesity at 4.5 ages were shown because the age-specific ideal weight was not available.

OR (95% CI): odds ratio (95% confidence interval) was adjusted for children's sex, birth weight, feeding status and hospital admission history, and parental education and working status.