



Erratum

# Erratum: Okui, T. Socioeconomic Disparities in All-Cause and Cause-Specific Mortality Rates among Municipalities in Japan, 1999–2019. *Int. J. Environ. Res. Public Health* 2020, 17, 9213

Tasuku Okui

Medical Information Center, Kyushu University Hospital, Fukuoka City 812-8582, Japan;  
okui.tasuku.509@m.kyushu-u.ac.jp; Tel.: +81-092-642-5882

The author wants to correct the values of the 95% confidence interval of the standardized mortality ratio (SMR) in Tables 3 and 4 in the following paper [1].

**Table 3.** SMR for all-cause and each cause of death by municipal SES quintile in 1999 and 2019 for men.

Cause of Death	Year	Municipal Socioeconomic Status				
		Quintile 1 (Lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (Highest)
		SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *
All cause	1999	1.02 (1.01, 1.03)	1.01 (1.00, 1.02)	1.01 (1.00, 1.02)	1.01 (1.00, 1.02)	0.99 (0.98, 0.99)
	2019	1.06 (1.05, 1.08)	1.05 (1.04, 1.05)	1.04 (1.03, 1.04)	1.01 (1.01, 1.02)	0.97 (0.97, 0.97)
Cancer in all sites	1999	0.93 (0.91, 0.95)	0.95 (0.94, 0.97)	0.98 (0.96, 0.99)	1.00 (0.99, 1.01)	1.01 (1.01, 1.02)
	2019	1.00 (0.98, 1.02)	1.01 (1.00, 1.02)	1.04 (1.02, 1.05)	1.02 (1.01, 1.03)	0.98 (0.97, 0.99)
Stomach cancer	1999	0.84 (0.80, 0.88)	0.92 (0.88, 0.96)	1.01 (0.97, 1.04)	1.01 (0.99, 1.04)	1.02 (1.00, 1.03)
	2019	0.94 (0.89, 0.99)	1.02 (0.98, 1.06)	1.05 (1.02, 1.09)	1.04 (1.02, 1.07)	0.97 (0.95, 0.98)
Colorectal cancer	1999	0.83 (0.77, 0.88)	0.90 (0.85, 0.95)	0.92 (0.88, 0.97)	1.00 (0.97, 1.03)	1.04 (1.02, 1.06)
	2019	1.00 (0.95, 1.06)	0.99 (0.95, 1.03)	1.05 (1.02, 1.09)	1.00 (0.97, 1.02)	0.99 (0.97, 1.00)
Liver cancer	1999	0.79 (0.74, 0.84)	0.88 (0.84, 0.93)	0.95 (0.91, 0.99)	1.01 (0.98, 1.04)	1.04 (1.02, 1.05)
	2019	0.97 (0.90, 1.04)	1.02 (0.97, 1.08)	1.05 (1.01, 1.09)	1.06 (1.03, 1.09)	0.96 (0.94, 0.98)
Pancreatic cancer	1999	1.00 (0.92, 1.09)	1.05 (0.98, 1.12)	1.01 (0.95, 1.08)	1.02 (0.98, 1.07)	0.98 (0.96, 1.01)
	2019	0.98 (0.91, 1.05)	1.00 (0.95, 1.06)	1.00 (0.96, 1.04)	1.03 (1.00, 1.06)	0.99 (0.97, 1.01)
Lung cancer	1999	0.96 (0.92, 1.00)	0.99 (0.96, 1.03)	1.00 (0.96, 1.03)	1.00 (0.98, 1.02)	1.00 (0.99, 1.02)
	2019	1.00 (0.96, 1.04)	1.02 (0.99, 1.05)	1.06 (1.03, 1.08)	1.03 (1.01, 1.04)	0.97 (0.96, 0.98)
Heart disease	1999	0.99 (0.96, 1.02)	1.00 (0.97, 1.02)	0.99 (0.97, 1.01)	1.01 (0.99, 1.02)	1.00 (0.99, 1.01)
	2019	1.06 (1.03, 1.09)	1.06 (1.03, 1.08)	1.06 (1.04, 1.08)	1.00 (0.98, 1.01)	0.97 (0.96, 0.98)
Ischemic heart disease	1999	0.91 (0.87, 0.95)	0.91 (0.88, 0.94)	0.91 (0.88, 0.94)	0.96 (0.94, 0.99)	1.05 (1.03, 1.06)
	2019	0.82 (0.78, 0.86)	0.84 (0.81, 0.87)	0.94 (0.91, 0.97)	1.00 (0.98, 1.02)	1.06 (1.05, 1.07)
Stroke	1999	1.05 (1.01, 1.08)	1.05 (1.02, 1.08)	1.07 (1.04, 1.09)	1.01 (1.00, 1.03)	0.97 (0.96, 0.98)
	2019	1.16 (1.11, 1.20)	1.13 (1.10, 1.16)	1.08 (1.05, 1.10)	1.02 (1.00, 1.04)	0.93 (0.92, 0.94)
Pneumonia	1999	1.03 (1.00, 1.07)	1.01 (0.98, 1.04)	0.97 (0.95, 1.00)	1.01 (0.99, 1.03)	0.99 (0.98, 1.01)
	2019	1.10 (1.06, 1.14)	1.04 (1.01, 1.07)	1.02 (1.00, 1.05)	1.03 (1.01, 1.05)	0.96 (0.95, 0.97)
Liver disease	1999	1.00 (0.92, 1.08)	0.93 (0.86, 1.00)	0.87 (0.82, 0.93)	0.98 (0.94, 1.02)	1.03 (1.00, 1.05)
	2019	1.18 (1.08, 1.28)	1.04 (0.98, 1.11)	0.93 (0.88, 0.98)	0.99 (0.95, 1.02)	1.00 (0.98, 1.03)
Renal failure	1999	1.00 (0.92, 1.09)	0.97 (0.90, 1.05)	1.03 (0.96, 1.10)	1.01 (0.96, 1.05)	0.99 (0.96, 1.02)
	2019	1.15 (1.07, 1.24)	1.07 (1.01, 1.13)	1.07 (1.02, 1.12)	1.06 (1.03, 1.10)	0.92 (0.90, 0.95)
Natural death	1999	1.15 (1.05, 1.25)	1.07 (0.99, 1.16)	1.21 (1.13, 1.29)	1.07 (1.01, 1.12)	0.90 (0.86, 0.93)
	2019	1.06 (1.01, 1.11)	1.00 (0.97, 1.04)	1.01 (0.98, 1.04)	0.95 (0.93, 0.98)	1.01 (1.00, 1.03)



**Citation:** Okui, T. Erratum: Okui, T. Socioeconomic Disparities in All-Cause and Cause-Specific Mortality Rates among Municipalities in Japan, 1999–2019. *Int. J. Environ. Res. Public Health* 2020, 17, 9213. *Int. J. Environ. Res. Public Health* 2021, 18, 5781. <https://doi.org/10.3390/ijerph18115781>

Received: 22 April 2021

Accepted: 23 April 2021

Published: 27 May 2021

**Publisher's Note:** MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



**Copyright:** © 2021 by the author. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Table 3. Cont.

Cause of Death	Year	Municipal Socioeconomic Status				
		Quintile 1 (Lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (Highest)
		SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *
Injury	1999	1.27 (1.21, 1.34)	1.29 (1.23, 1.34)	1.22 (1.18, 1.27)	1.08 (1.05, 1.11)	0.87 (0.85, 0.88)
	2019	1.32 (1.25, 1.39)	1.25 (1.20, 1.30)	1.09 (1.05, 1.13)	1.04 (1.01, 1.06)	0.89 (0.87, 0.91)
Suicide	1999	1.38 (1.31, 1.46)	1.21 (1.15, 1.27)	1.07 (1.02, 1.12)	1.01 (0.98, 1.04)	0.93 (0.91, 0.94)
	2019	1.42 (1.31, 1.53)	1.23 (1.16, 1.30)	1.09 (1.04, 1.14)	1.04 (1.00, 1.08)	0.91 (0.88, 0.93)

\* SMR, standardized mortality ratio; CI, confidence interval.

Table 4. SMR for all-cause and each cause of death by municipal SES quintile in 1999 and 2019 for women.

Cause of Death	Year	Municipal Socioeconomic Status				
		Quintile 1 (Lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (Highest)
		SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *	SMR (95% CI) *
All cause	1999	0.97 (0.96, 0.98)	0.99 (0.98, 1.00)	0.99 (0.98, 0.99)	1.01 (1.00, 1.01)	1.01 (1.00, 1.01)
	2019	1.02 (1.01, 1.04)	1.04 (1.03, 1.04)	1.04 (1.03, 1.04)	1.01 (1.01, 1.02)	0.97 (0.97, 0.98)
Cancer in all sites	1999	0.89 (0.87, 0.92)	0.92 (0.90, 0.94)	0.95 (0.93, 0.96)	0.99 (0.97, 1.00)	1.04 (1.03, 1.05)
	2019	0.93 (0.91, 0.95)	0.98 (0.97, 1.00)	1.02 (1.00, 1.03)	1.01 (1.00, 1.02)	1.00 (0.99, 1.01)
Stomach cancer	1999	0.79 (0.73, 0.84)	0.88 (0.83, 0.92)	0.98 (0.94, 1.03)	1.01 (0.98, 1.05)	1.04 (1.02, 1.06)
	2019	0.90 (0.83, 0.97)	1.04 (0.99, 1.10)	1.03 (0.99, 1.07)	1.02 (0.99, 1.05)	0.99 (0.96, 1.01)
Colorectal cancer	1999	0.81 (0.76, 0.87)	0.91 (0.86, 0.96)	0.95 (0.90, 1.00)	0.97 (0.94, 1.00)	1.06 (1.03, 1.08)
	2019	0.93 (0.88, 0.99)	0.95 (0.91, 1.00)	1.03 (0.99, 1.06)	1.02 (0.99, 1.04)	1.00 (0.98, 1.02)
Liver cancer	1999	0.87 (0.79, 0.94)	0.90 (0.84, 0.97)	0.91 (0.85, 0.97)	0.99 (0.95, 1.04)	1.05 (1.02, 1.08)
	2019	0.99 (0.90, 1.09)	0.96 (0.89, 1.03)	1.04 (0.98, 1.10)	1.05 (1.01, 1.10)	0.97 (0.94, 1.00)
Pancreatic cancer	1999	0.91 (0.83, 1.00)	1.01 (0.94, 1.09)	0.98 (0.92, 1.05)	1.00 (0.95, 1.05)	1.01 (0.98, 1.04)
	2019	0.94 (0.88, 1.00)	1.01 (0.96, 1.06)	1.06 (1.02, 1.10)	0.98 (0.95, 1.01)	1.00 (0.98, 1.02)
Lung cancer	1999	0.97 (0.91, 1.04)	0.89 (0.84, 0.95)	0.90 (0.85, 0.95)	0.96 (0.93, 1.00)	1.05 (1.03, 1.08)
	2019	0.90 (0.85, 0.96)	0.92 (0.88, 0.97)	0.96 (0.93, 1.00)	1.04 (1.01, 1.07)	1.01 (0.99, 1.03)
Heart disease	1999	0.98 (0.96, 1.01)	0.96 (0.94, 0.99)	0.98 (0.96, 1.00)	1.01 (1.00, 1.03)	1.01 (1.00, 1.02)
	2019	1.04 (1.02, 1.07)	1.06 (1.04, 1.08)	1.07 (1.06, 1.09)	1.02 (1.01, 1.03)	0.95 (0.94, 0.96)
Ischemic heart disease	1999	0.92 (0.88, 0.96)	0.92 (0.88, 0.95)	0.92 (0.89, 0.96)	0.98 (0.96, 1.00)	1.05 (1.03, 1.06)
	2019	0.85 (0.81, 0.90)	0.85 (0.81, 0.88)	0.97 (0.94, 1.01)	0.99 (0.97, 1.02)	1.06 (1.04, 1.08)
Stroke	1999	0.96 (0.94, 0.99)	1.05 (1.02, 1.07)	1.04 (1.02, 1.07)	1.04 (1.03, 1.06)	0.97 (0.96, 0.98)
	2019	1.13 (1.09, 1.17)	1.16 (1.13, 1.19)	1.08 (1.05, 1.10)	1.03 (1.01, 1.04)	0.92 (0.91, 0.93)
Pneumonia	1999	0.99 (0.96, 1.03)	0.96 (0.93, 0.99)	0.93 (0.90, 0.96)	0.99 (0.97, 1.01)	1.03 (1.01, 1.04)
	2019	1.09 (1.05, 1.13)	1.05 (1.02, 1.09)	1.07 (1.04, 1.09)	1.03 (1.01, 1.04)	0.95 (0.93, 0.96)
Liver disease	1999	0.93 (0.83, 1.05)	0.83 (0.74, 0.92)	0.95 (0.87, 1.03)	0.96 (0.91, 1.02)	1.06 (1.02, 1.09)
	2019	1.02 (0.91, 1.14)	1.04 (0.95, 1.13)	1.02 (0.95, 1.10)	1.03 (0.97, 1.08)	0.97 (0.94, 1.01)
Renal failure	1999	0.98 (0.90, 1.06)	0.95 (0.88, 1.02)	0.93 (0.88, 0.99)	1.04 (1.00, 1.09)	1.01 (0.98, 1.04)
	2019	1.20 (1.12, 1.28)	1.13 (1.07, 1.19)	1.10 (1.05, 1.15)	1.05 (1.02, 1.09)	0.89 (0.87, 0.92)
Natural death	1999	1.05 (0.99, 1.11)	1.18 (1.12, 1.23)	1.16 (1.11, 1.21)	1.06 (1.03, 1.10)	0.90 (0.88, 0.92)
	2019	1.03 (1.01, 1.06)	1.00 (0.98, 1.02)	1.02 (1.00, 1.04)	0.95 (0.93, 0.96)	1.02 (1.01, 1.03)
Injury	1999	0.99 (0.92, 1.06)	1.13 (1.07, 1.19)	1.09 (1.04, 1.15)	1.05 (1.02, 1.09)	0.94 (0.92, 0.96)
	2019	1.10 (1.04, 1.18)	1.08 (1.03, 1.13)	1.10 (1.06, 1.15)	1.02 (0.99, 1.06)	0.93 (0.91, 0.95)
Suicide	1999	1.20 (1.10, 1.31)	1.13 (1.04, 1.21)	1.06 (0.99, 1.14)	0.92 (0.88, 0.97)	0.98 (0.96, 1.01)
	2019	1.06 (0.92, 1.21)	1.00 (0.91, 1.10)	1.00 (0.93, 1.08)	0.99 (0.93, 1.04)	1.00 (0.97, 1.04)

\* SMR, standardized mortality ratio; CI, confidence interval.

## Reference

- Okui, T. Socioeconomic Disparities in All-Cause and Cause-Specific Mortality Rates among Municipalities in Japan, 1999–2019. *Int. J. Environ. Res. Public Health* **2020**, *17*, 9213. [[CrossRef](#)] [[PubMed](#)]