

Precarious employment and the risk of serious psychological distress: a population-based cohort study in Japan ¹by Yuko Kachi,² Toshiaki Otsuka, Tomoyuki Kawada¹ Appendix. Supplementary tables A, B, and C² Correspondence to: Yuko Kachi, Department of Hygiene and Public Health, Nippon Medical School, 1-1-5 Sendagi, Bunkyo-ku, Tokyo, 113-8602, Japan. [E-mail: kachi@nms.ac.jp]**Table A.** Hazard ratios (HR) and 95% confidence intervals (95% CI) for the incidence of serious psychological distress during the 4-year follow-up period, according to the four types of employment contract (N=15 222).

Employment contract	Cases / non-cases (N)	Crude model		Age-adjusted model		Fully adjusted model ^a	
		HR	95% CI	HR	95% CI	HR	95% CI
Men (N=8486)							
Full-time permanent	318/7770	1.00		1.00		1.00	
Part-time	23/263	2.28	1.48–3.50 ^b	2.41	1.58–3.69 ^b	1.70	1.05–2.76 ^b
Dispatched ^c	3/57	1.35	0.43–4.26	1.36	0.44–4.23	1.01	0.30–2.96
Contract or entrusted	30/396	1.92	1.31–2.80 ^b	2.05	1.41–2.98 ^b	2.03	1.35–3.06 ^b
Women (N=6736)							
Full-time permanent	144/2664	1.00		1.00		1.00	
Part-time	193/3581	1.00	0.80–1.24	1.01	0.81–1.25	1.01	0.74–1.38
Dispatched ^c	3/50	1.08	0.34–3.41	1.09	0.35–3.43	0.82	0.25–2.70
Contract or entrusted	24/441	1.01	0.65–1.56	1.00	0.65–1.55	0.85	0.54–1.34

^a Adjusted for age, marital status, equivalized household expenditure, hours of work, occupation, company size, organizational tenure, cardiovascular disease risk, and K6 scores (all covariates measured at baseline). K6 is a self-rated 6-item scale that screens for any mood or anxiety disorder.^b P<0.05.^c Dispatched employee from temporary labor agency.**Table B.** Hazard ratios (HR) and 95% confidence intervals (95% CI) for the incidence of serious psychological distress during the 4-year follow-up period according to employment contract, stratified by marital status, among participants without missing data on marital status (N=15190).

Marital status, employment contract	Cases / non-cases (N)	Crude model		Age-adjusted model		Fully adjusted model ^a	
		HR	95% CI	HR	95% CI	HR	95% CI
Men (N=8471)							
Married							
Full-time permanent	283/6785	1.00		1.00		1.00	
Precarious	41/532	1.86	1.34–2.59 ^b	1.98	1.43–2.75 ^b	1.68	1.14–2.46 ^b
Never married							
Full-time permanent	21/355	1.00		1.00		1.00	
Precarious	8/69	2.03	0.89–4.63	2.10	0.93–4.76	3.38	1.06–10.75 ^b
Divorced/widowed							
Full-time permanent	14/299	1.00		1.00		1.00	
Precarious	7/57	2.54	1.01–6.37 ^b	2.67	1.07–6.65 ^b	2.76	0.82–9.30
Women (N=6719)							
Married							
Full-time permanent	97/1919	1.00		1.00		1.00	
Precarious	181/3350	1.07	0.83–1.37	1.08	0.84–1.38	0.88	0.62–1.24
Never married							
Full-time permanent	12/171	1.00		1.00		1.00	
Precarious	15/81	2.45	1.13–5.31 ^b	2.40	1.13–5.10 ^b	6.27	1.80–21.76 ^b
Divorced/widowed							
Full-time permanent	33/424	1.00		1.00		1.00	
Precarious	24/412	0.76	0.45–1.30	0.78	0.46–1.32	0.81	0.41–1.58

^a Adjusted for age, marital status, equivalized household expenditure, hours of work, occupation, company size, organizational tenure, cardiovascular disease risk, and K6 scores (all covariates measured at baseline). K6 is a self-rated 6-item scale that screens for any mood or anxiety disorder.^b P<0.05.

Supplementary Table C. Comparison of baseline characteristics between participants with and without follow-up by gender.

Characteristics	Men				P-value ^a	Women				P-value ^a
	Followed (N=8486)		Not followed (N=1471)			Followed (N=6736)		Not followed (N=1064)		
	%	%	%	%		%	%	%	%	
Age (years)	54.5	2.8 ^b	54.5	2.7 ^b	0.582	54.3	2.7 ^b	54.4	2.7 ^b	0.040
Marital status										
Married	90.0		88.3		0.083	82.4		74.9		<0.001
Never married	5.3		6.4			4.1		5.4		
Divorced/widowed	4.4		4.9			13.3		18.9		
Data missing	0.2		0.4			0.3		0.9		
Equivalized household expenditure ^c										
Quartile 1 (lowest)	24.0		22.6		<0.001	32.4		32.7		<0.001
Quartile 2	18.4		17.1			18.3		16.1		
Quartile 3	15.9		14.8			14.9		11.0		
Quartile 4 (highest)	31.6		26.7			24.1		20.3		
Data missing	10.1		18.8			10.4		19.9		
Employment contract										
Full-time permanent	91.6		88.6		<0.001	39.6		36.2		0.037
Precarious	8.4		11.4			60.5		63.8		
Cardiovascular disease risks										
None	69.2		70.1		0.482	76.7		76.3		0.804
Any	30.8		29.9			23.3		23.7		

^a Obtained from Wilcoxon's rank-sum test for age and from chi-square test for other variables.

^b Values are presented in mean (SD).

^c Monthly household expenditure divided by square root of the number of household members.