S1 Table. Comparison of the estimated adjusted hazard ratios (HRs) from multivariable Cox proportional hazard regression models for data with PCOS-stage, NSWCR complete-case stage and imputed stage from two imputation models.

	Multivariable model - adjusted hazard ratio (95% CI)				
			Data generated by multiple imputation		
	PCOS-stage	NSWCR complete-case stage	Data from basic imputation model[a]	Data from enhanced imputation model[b]	Data from enhanced imputation model[b]
			m=35	m=35	m=100
	n=1864	n=1254	n=1864	n=1864	n=1864
Variables			MNAR	MAR	MAR
Age at diagnosis	p=0.5	p=0.6	p=0.6	p=0.6	p=0.6
One year increase	1.01 (0.98 -1.05)	1.01 (0.97 -1.06)	1.01 (0.97 -1.05)	1.01 (0.97 -1.05)	1.01 (0.97 -1.05)
Geographical location	p=0.8	p=0.05	p=0.5	p=0.4	p=0.8
Major cities	1.07 (0.64 -1.79)	1.80 (0.89 -3.67)	1.18 (0.69 -2.02)	1.22 (0.68 -2.20)	1.24 (0.70 -2.21)
Inner regional	1.00	1.00	1.00	1.00	1.00
Rural	1.24 (0.61 -2.55)	2.76 (1.18 -6.46)	1.57 (0.75 -3.32)	1.66 (0.76 -3.64)	1.63 (0.75 -3.56)
Socio-economic status	p=0.04	p=0.003	p=0.03	p=0.03	p=0.03
High	1.00	1.00	1.00	1.00	1.00
Middle	0.74 (0.43 -1.28)	0.73 (0.35 -1.52)	0.83 (0.47 -1.45)	0.79 (0.44 -1.41)	0.81 (0.46 -1.45)
Low	1.48 (0.86 -2.53)	2.45 (1.25 -4.79)	1.73 (0.98 -3.04)	1.69 (0.94 -3.05)	1.75 (0.97 -3.16)
Stage at diagnosis	p<0.0001	p<0.0001	p<0.0001	p<0.0001	p<0.0001
Localised	1.00	1.00	1.00	1.00	1.00
Regional	2.91 (1.81 -4.69)	2.35 (1.28 -4.31)	2.31 (1.19 -4.49)	2.67 (1.42 -5.04)	2.76 (1.48 -5.13)
Distant	22.04 (14.08 -34.52)	25.71 (12.90 -51.23)	23.54 (11.97 -46.31)	20.54 (9.55 -44.16)	20.99 (9.81 -44.92)

a. Basic imputation model includes NSWCR variables survival status, survival time, age at diagnosis, geographical location, and socio-economic status.
b. Enhanced imputation model includes all variables in the basic imputation model, plus primary treatment from PCOS.
* NSWCR: NSW Cancer Registry; PCOS: Prostate Cancer Care and Outcomes Study; MNAR: Missing not at random; MAR: Missing at random.