

1 SUPPLEMENTARY TABLES

2 Table S1. Comparison of included and excluded participants based on missing indicator variable.

	$\bar{x}$ (SD) or n (%)		
	Indicator missing	Indicator not missing	Chi-square or t-test
	($n=347$)	($n=12085$)	
Dead at censor date	287 (82.7)	8726 (72.2)	DF=1, $\chi=18.67$, $p<0.001$
Mean age at death ($n=9013$)	84.9 years (5.7)	85.7 years (5.6)	DF=9011; $t=2.39$, $p=0.02$
Age at baseline	72.9 years (1.5)	72.5 years (1.5)	DF=12430; $t=-3.74$, $p<0.001$
Low educational attainment ($n=11768$)	242 (85.5)	8313 (72.4)	DF=1, $\chi=24.0$, $p<0.001$
Born outside Australia ($n=11622$)	61 (21.5)	2561 (22.6)	DF=1, $\chi=0.20$, $p=0.66$
Socioeconomic status ^a ($n=12410$)	972.3 (86.1)	986.7 (88.5)	DF=12408, $t=2.73$, $p=0.006$
Smoking ($n=11613$)			DF=2, $\chi=4.9$, $p=0.09$
Never	145 (56.0)	7098 (62.5)	
Former	88 (34.0)	3370 (29.7)	
Current	26 (10.0)	886 (7.8)	
Alcohol risk score ^b ($n=12432$)	2 (1-4)	2 (1-5)	DF=4 $\chi=11.6$, $p=0.02$
Body Mass Index ($n=11378$)	25.5 (4.7)	25.3 (4.5)	DF=11376; $t=1.00$, $p=0.65$
Physical activity ^b ($n=11976$)	2 (1-5)	2 (1-5)	DF=11974, $t=2.55$, $p=0.01$
Social support ^c ($n=12046$)	27.0 (3.78)	28.3 (3.0)	DF=12044, $t=5.99$, $p<0.001$
Mental health index ^d ($n=12062$)	69.9 (17.7)	77.2 (16.9)	DF=12060, $t=7.0$, $p<0.001$
Physical health index ^d ($n=11712$)	54.9 (30.6)	63.3 (26.1)	DF=11710, $t=5.09$, $p<0.001$

3 ^a Index of Relative Socio-Economic Disadvantage from 1996 Australian census

4 ^b Median (range)

5 ^c Duke Social Support Index; minimum=11, maximum=33

6 ^d minimum=0, maximum=100

7 Table S2. Mortality associated with violence and covariates – sensitivity analysis excluding women who died within two years of baseline
8 ($n=11,708$).

	Unadjusted		Model 1 ^a		Model 2 ^b		Fully adjusted model ^c	
	Hazard Ratio (95% CI)	<i>p</i>	Hazard Ratio (95% CI)	<i>p</i>	Hazard Ratio (95% CI)	<i>p</i>	Hazard Ratio (95% CI)	<i>p</i>
Violence ^d								
Historical IPV only	1.13 (1.03-1.23)	0.009	1.16 (1.06-1.26)	0.001	1.19 (0.88-1.19)	0.067	1.04 (0.95-1.14)	0.373
Current violence only	1.05 (0.85-1.30)	0.645	1.05 (0.85-1.30)	0.673	1.05 (0.85-1.30)	0.637	0.97 (0.78-1.20)	0.776
Both	1.34 (0.94-1.92)	0.110	1.51 (1.06-2.15)	0.022	1.50 (1.05-2.15)	0.027	1.40 (0.98-2.01)	0.067
Age	1.15 (1.13-1.17)	<0.001	1.15 (1.13-1.16)	<0.001	1.15 (1.13-1.17)	<0.001	1.15 (1.13-1.17)	<0.001
Socioeconomic status ^e	0.93 (0.90-0.95)	<0.001	0.94 (0.91-0.96)	<0.001	0.95 (0.92-0.97)	<0.001	0.95 (0.93-0.98)	<0.001
Country of birth	0.96 (0.91-1.01)	0.109	0.96 (0.91-1.01)	0.136	0.92 (0.87-0.97)	0.004	0.89 (0.84-0.94)	<0.001
High education	0.90 (0.85-0.94)	<0.001	0.92 (0.91-0.96)	<0.001	0.93 (0.89-0.98)	0.006	0.96 (0.91-1.01)	0.083
Smoking status ^f								
Former	1.23 (1.17-1.28)	<0.001	-	-	1.24 (1.18-1.30)	<0.001	1.22 (1.16-1.25)	<0.001
Current	1.86 (1.73-2.00)	<0.001	-	-	1.86 (1.72-2.00)	<0.001	1.80 (1.67-1.95)	<0.001
Alcohol risk score	1.06 (1.04-1.09)	<0.001	-	-	1.05 (1.02-1.08)	<0.001	1.04 (1.02-1.07)	<0.001
Physical activity	0.88 (0.86-0.89)	<0.001	-	-	0.89 (0.89-0.91)	<0.001	0.75 (0.66-0.84)	<0.001
DSSI	0.97 (0.96-0.98)	<0.001	-	-	-	-	0.99 (0.98-1.00)	0.006
SF-MH	0.99 (0.99-0.99)	<0.001	-	-	-	-	0.99 (0.99-1.00)	<0.001

9 CI=Confidence interval; DSSI=Duke Social Support Index; IPV=Intimate partner violence; SF-MH=SF-36 mental health domain

10 ^a Adjusted for age, socioeconomic status, country of birth, education (Likelihood ratio $\chi^2=406.2$, DF=7, $p<0.001$)

11 ^b Adjusted for age, socioeconomic status, country of birth, education, smoking status, alcohol risk status, physical activity at baseline (Likelihood ratio $\chi^2=813.6$, DF=11,
12 $p<0.001$).

13 ^c Adjusted for age, socioeconomic status, country of birth, education, smoking status at baseline, alcohol risk status at baseline, mental health index (Likelihood ratio $\chi^2=961.3$,
14 DF=12, $p<0.001$)

15 ^d Neither historical IPV or current violence used as reference group

16 ^e Index of Relative Socio-Economic Disadvantage from 1996 Australian census

17 ^f Never smoker used as reference group

Table S3. Mortality associated with historical intimate partner violence and covariates (including baseline self-reported physical functioning).

	Fully adjusted model ^a (n=12,040)		Sensitivity analysis ^b (n=11,708)	
	Hazard Ratio (95% CI)	<i>p</i>	Hazard Ratio (95% CI)	<i>p</i>
Violence ^c				
Historical IPV only	1.05 (0.96-1.14)	0.329	1.05 (0.96-1.14)	0.329
Current violence only	0.97 (0.79-1.20)	0.785	0.97 (0.79-1.20)	0.785
Both	1.32 (0.93-1.89)	0.121	1.32 (0.93-1.89)	0.121
Age	1.13 (1.12-1.15)	<0.001	1.13 (1.12-1.15)	<0.001
Socio-economic status ^d	0.96 (0.94-0.98)	<0.001	0.96 (0.94-0.98)	<0.001
Country of birth	0.90 (0.85-0.95)	<0.001	0.90 (0.85-0.95)	<0.001
High education	0.97 (0.93-1.02)	0.303	0.97 (0.93-1.02)	0.303
Smoking status ^e				
Former	1.22 (1.17-1.28)	<0.001	1.22 (1.17-1.28)	<0.001
Current	1.83 (1.70-1.97)	<0.001	1.83 (1.70-1.97)	<0.001
Alcohol risk score	1.04 (1.02-1.07)	<0.001	1.04 (1.02-1.07)	<0.001
Physical activity	0.95 (0.93-0.97)	<0.001	0.95 (0.93-0.97)	<0.001
DSSI	0.99 (0.99-1.00)	0.131	0.99 (0.99-1.00)	0.131
SF-MH	1.00 (1.00-1.00)	0.095	1.00 (1.00-1.00)	0.095
SF-PF	0.99 (0.99-0.99)	<0.001	1.00 (0.99-0.99)	<0.001

CI=Confidence interval; DSSI=Duke Social Support Index; IPV=Intimate partner violence; SF-MH=SF-36 mental health domain; SF-PF=SF-36 physical functioning domain

^a Likelihood ratio $\chi^2=1487.7$, DF=14, $p<0.001$

^b Women who died within two years of baseline excluded (Likelihood ratio $\chi^2=1487.8$, DF=14, $p<0.001$)

^c Neither historical IPV or current violence used as reference group

^d Index of Relative Socio-Economic Disadvantage from 1996 Australian census

^e Never smoker used as reference group

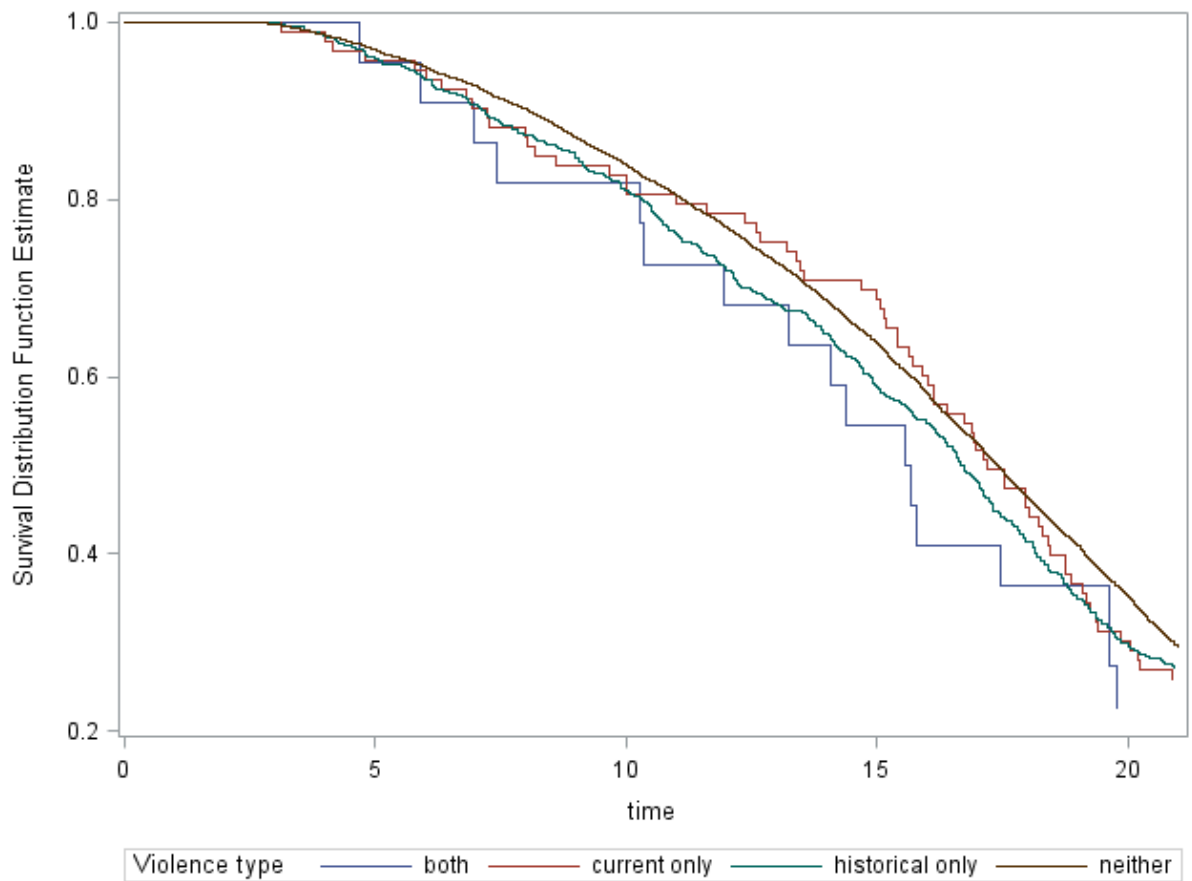


Figure S1. Survival curves for violence status and all-cause mortality. P-value for interaction term between violence status and function of time in the model = 0.313.

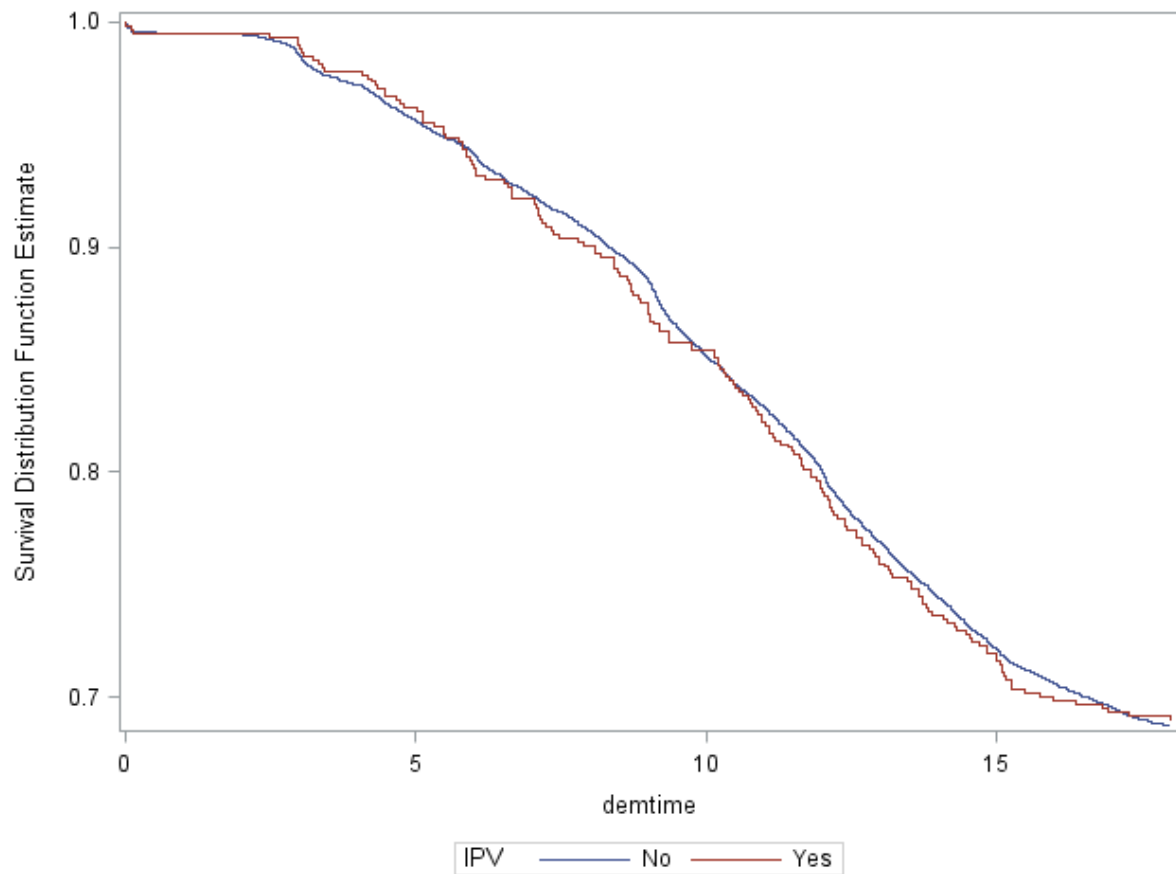


Figure S2. Survival curves for historical intimate partner violence and dementia. P-value for interaction term between historical intimate partner violence and time in the model = 0.773.

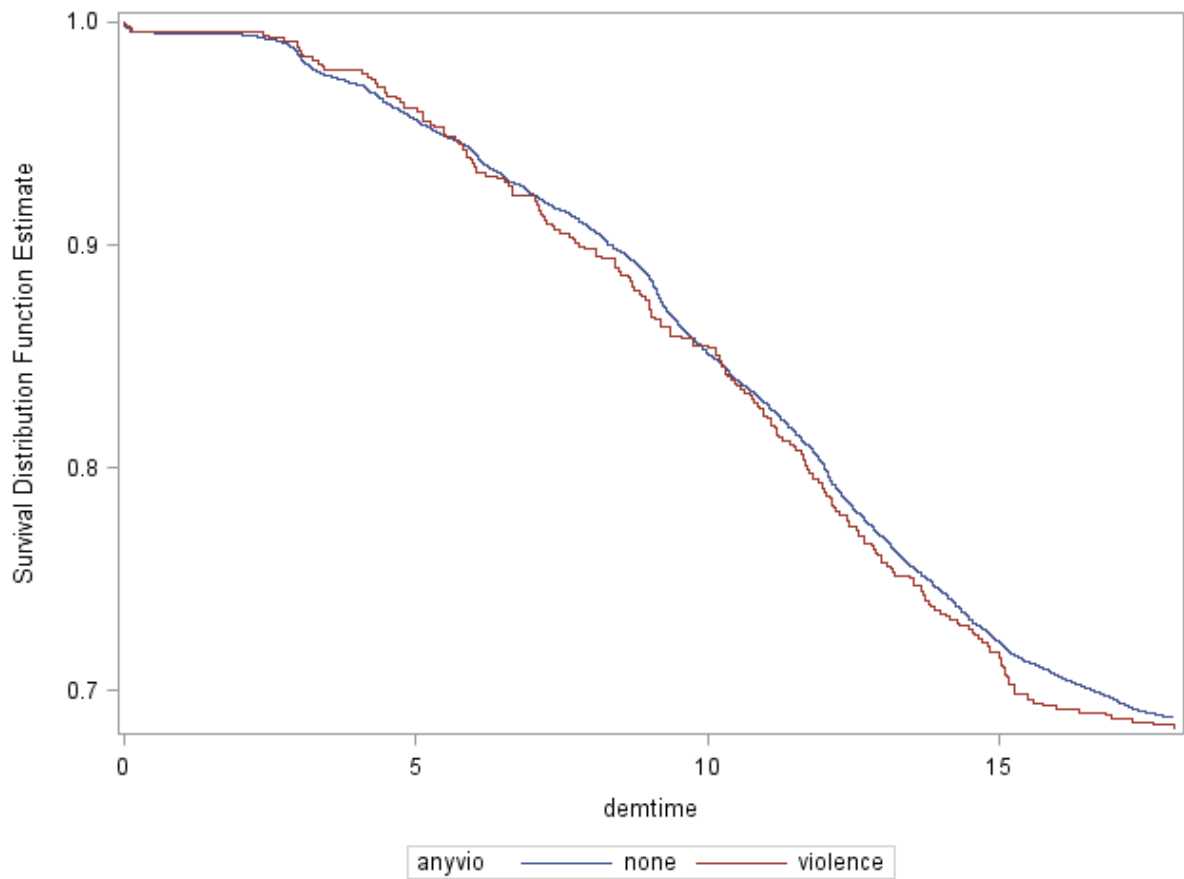


Figure S3. Survival curves for any violence and dementia. P-value for interaction term between any violence and time in the model = 0.934

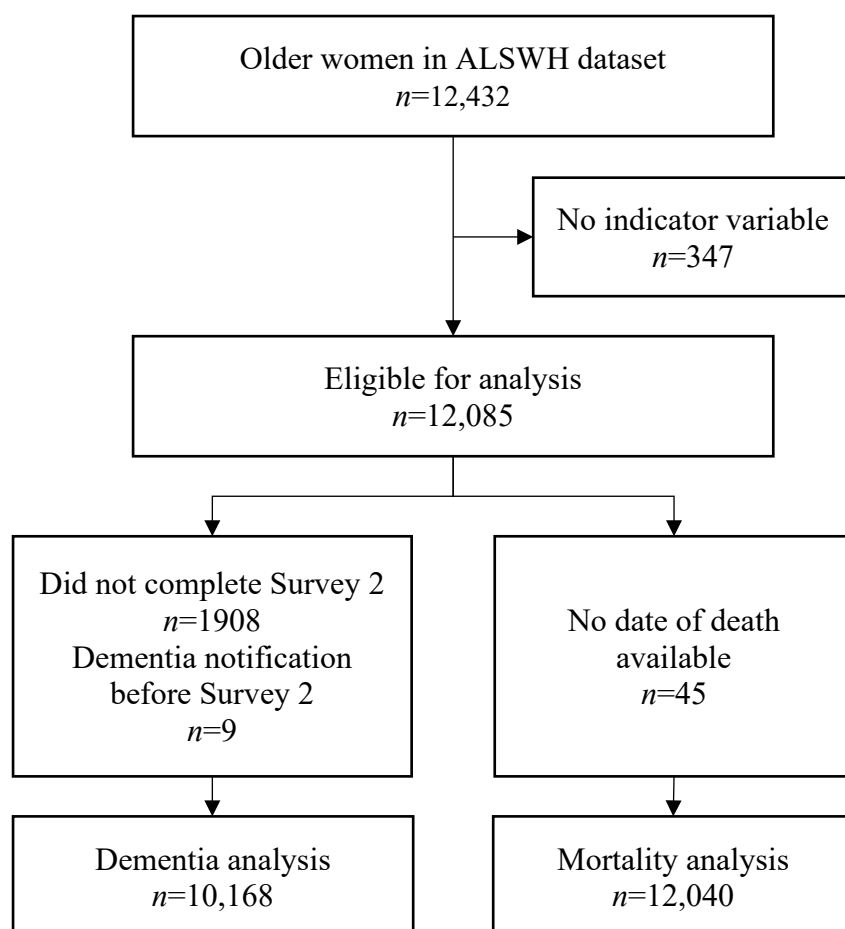


Figure S4. Consort diagram.