

**Online Resource 4. Table 1. Adjusted sub-hazard ratios for suicide by use patterns of antidepressants, stratified by gender**

Variable	Men, Suicides = 199		Women, Suicides = 96	
	Adjusted SHR <sup>a</sup> (95% CI)	P	Adjusted SHR <sup>a</sup> (95% CI) <sup>a</sup>	P
Early discontinuation <sup>b</sup>	0.77 (0.36-1.66)	0.51	1.15 (0.46-2.84)	0.77
Combination use of $\geq 2$ antidepressants <sup>c</sup>	0.96 (0.47-1.95)	0.90	1.84 (0.78-3.38)	0.17
Switch to another antidepressant <sup>d</sup>	3.03 (1.93-4.76)	<0.001	1.76 (0.88-3.53)	0.11
Medication possession ratio of antidepressants $\geq 80\%$ <sup>e</sup>	0.91 (0.67-1.22)	0.60	1.33 (0.84-2.12)	0.23
Concomitant use of psychotropic medications <sup>f</sup>				
Hypnotics	2.13 (1.56-2.93)	<0.001	2.46 (1.57-3.88)	0.001
Anxiolytics	1.68 (1.24-2.27)	<0.001	1.15 (0.76-1.76)	0.51
Antipsychotics	0.87 (0.54-1.39)	0.55	1.86 (1.07-3.20)	0.03
Anti-dementia drugs	0.37 (0.18-0.76)	0.01	0.55 (0.23-1.30)	0.17
Mood stabilisers <sup>g</sup>	0.90 (0.37-2.20)	0.68	-	-

SHR: Sub-hazard ratio

<sup>a</sup> Adjusted for age, sex, suicide attempt within one year preceding the index date, serious depression, use of statins (a proxy of cardiovascular comorbidity), and nursing home residence.

<sup>b</sup> Reference group: those who did not discontinue their treatment within 180 days following the index date

<sup>c</sup> Reference group: those who did not combine two antidepressants within 180 days following the index date

<sup>d</sup> Reference group: those who did not switch to another antidepressant within 180 days following the index date

<sup>e</sup> The proportion of days covered by antidepressant medications during the follow-up period. (Threshold of MPR to define adherence  $\geq 80\%$ )

<sup>f</sup> Reference group: those who did not use the specified psychotropic medication within 90 days following the refill of an antidepressant

<sup>g</sup> The low number of suicides did not allow to conduct the regression analysis among women

**Online Resource 4. Table 2. Adjusted sub-hazard ratios for suicide attempts by use patterns of antidepressants, stratified by gender**

Variable	Men, attempts = 300		Women, attempts = 354	
	Adjusted SHR <sup>a</sup> (95% CI)	P	Adjusted SHR <sup>a</sup> (95% CI)	P
Early discontinuation <sup>b</sup>	1.00 (0.56-1.79)	0.1	1.18 (0.71-1.94)	0.52
Combination use of $\geq 2$ antidepressants <sup>c</sup>	1.27 (0.74-2.17)	0.38	0.63 (0.33-1.22)	0.17
Switch to another antidepressant <sup>d</sup>	1.40 (0.87-2.26)	0.16	1.97 (1.38-2.82)	<0.001
Medication possession ratio of antidepressants $\geq 80\%$ <sup>e</sup>	0.82 (0.64-1.05)	0.12	0.90 (0.72-1.13)	0.38
Concomitant use of psychotropic medications <sup>f</sup>				
<b>Hypnotics</b>	2.86 (2.19-3.72)	<0.001	2.83 (2.20-3.65)	<0.001
<b>Anxiolytics</b>	1.88 (1.48-2.37)	<0.001	2.25 (1.78-2.85)	<0.001
<b>Antipsychotics</b>	1.37 (0.98-1.93)	0.07	1.16 (0.83-1.62)	0.38
<b>Anti-dementia drugs</b>	0.49 (0.29-0.84)	0.01	0.34 (0.19-0.62)	<0.001
<b>Mood stabilisers</b>	0.68 (0.30-1.55)	0.36	1.99 (1.18-3.37)	0.01

SHR: Sub-hazard ratio

<sup>a</sup> Adjusted for age, sex, suicide attempt within one year preceding the index date, serious depression, use of statins (a proxy of cardiovascular comorbidity), and nursing home residence.

<sup>b</sup> Reference group: those who did not discontinue their treatment within 180 days following the index date

<sup>c</sup> Reference group: those who did not combine two antidepressants within 180 days following the index date

<sup>d</sup> Reference group: those who did not switch to another antidepressant within 180 days following the index date

<sup>e</sup> The proportion of days covered by antidepressant medications during the follow-up period. (Threshold of MPR to define adherence  $\geq 80\%$ )

<sup>f</sup> Reference group: those who did not use the specified psychotropic medication within 90 days following the refill of an antidepressant