

## Supplementary Tables

**eTable 1: Incidence Rate Ratios (IRRs) for attempted suicide for different antidepressants by risk period and antidepressant type: selective serotonin reuptake inhibitors (SSRIs) and tricyclic antidepressants (TCAs)**

Risk period	SSRIs 423 events† IRR (95% CI)	fluoxetine 198 events† IRR (95% CI)	citalopram 111 events† IRR (95% CI)	sertraline 39 events† IRR (95% CI)	paroxetine 61 events† IRR (95% CI)	TCAs 79 events IRR (95% CI)
Unexposed	0.09 (0.07 - 0.13)	0.10 (0.06 - 0.16)	0.08 (0.05 - 0.14)	0.11 (0.04 - 0.31)	0.07 (0.03 - 0.14)	0.20 (0.09 - 0.46)
Pre-exposure 1 (- 4 months)	0.19 (0.10 - 0.38)	0.18 (0.06 - 0.53)	0.26 (0.10 - 0.67)	0.20 (0.02 - 1.71)	0.21 (0.05 - 0.97)	0.61 (0.18 - 2.10)
Pre-exposure 2 (- 3 months)	0.31 (0.17 - 0.53)	0.41 (0.19 - 0.89)	0.20 (0.07 - 0.59)	0.20 (0.02 - 1.70)	0.21 (0.05 - 0.96)	0.29 (0.06 - 1.39)
Pre-exposure 3 (-2 months)	0.62 (0.40 - 0.96)	0.72 (0.38 - 1.37)	0.35 (0.15 - 0.83)	1.19 (0.36 - 3.88)	0.41 (0.13 - 1.30)	0.14 (0.02 - 1.16)
Pre-exposure 4 (- 1 month)	Reference	Reference	Reference	Reference	Reference	Reference
Prescription day	4.17 (2.44 - 7.12)	5.84 (2.76 - 12.34)	2.02 (0.60 - 6.79)	5.31 (1.03 - 27.37)	3.96 (1.09 - 14.39)	8.82 (2.79 - 27.82)
Week 1	0.79 (0.40 - 1.55)	0.98 (0.37 - 2.59)	0.45 (0.10 - 1.92)	2.64 (0.63 - 11.06)	0.44 (0.06 - 3.45)	1.18 (0.24 - 5.68)
Week 2	0.74 (0.39 - 1.42)	0.50 (0.15 - 1.68)	1.16 (0.47 - 2.90)	0.76 (0.09 - 6.48)	0.38 (0.05 - 2.98)	1.02 (0.21 - 4.91)
Week 3	1.07 (0.61 - 1.86)	1.51 (0.70 - 3.28)	0.57 (0.17 - 1.92)	0.74 (0.09 - 6.33)	1.14 (0.31 - 4.14)	0.53 (0.06 - 4.29)
Week 4	0.52 (0.24 - 1.15)	1.13 (0.46 - 2.79)	0.21 (0.03 - 1.58)	1.65 (0.32 - 8.56)	No events	0.57 (0.07 - 4.67)
Rest of AD episode	0.53 (0.36 - 0.78)	0.65 (0.37 - 1.14)	0.50 (0.25 - 0.98)	1.02 (0.33 - 3.11)	0.30 (0.11 - 0.80)	0.38 (0.11 - 1.33)
Wash-out 1 (+ 1 month)	0.42 (0.25 - 0.69)	0.54 (0.27 - 1.10)	0.43 (0.19 - 0.98)	No events	0.40 (0.13 - 1.30)	0.66 (0.21 - 2.09)
Wash-out 2 (+ 2 months)	0.17 (0.09 - 0.35)	0.18 (0.06 - 0.53)	0.22 (0.07 - 0.63)	No events	0.19 (0.04 - 0.89)	0.28 (0.06 - 1.33)
Wash-out 3 (+ 3 months)	0.15 (0.09 - 0.25)	0.25 (0.13 - 0.46)	0.16 (0.09 - 0.29)	0.27 (0.10 - 0.77)	0.24 (0.10 - 0.57)	0.41 (0.16 - 1.03)

†Number of events in young people taking antidepressant

**eTable 2: Incidence Rate Ratios (IRRs) for self-harm for different antidepressants by risk period and antidepressant type: selective serotonin reuptake inhibitors (SSRIs) and tricyclic antidepressants (TCAs)**

<b>Risk period</b>	<b>SSRIs</b> <i>654 events</i> † IRR (95% CI)	<b>fluoxetine</b> <i>347 events</i> † IRR (95% CI)	<b>citalopram</b> <i>151 events</i> † IRR (95% CI)	<b>sertraline</b> <i>71 events</i> † IRR (95% CI)	<b>paroxetine</b> <i>55 events</i> † IRR (95% CI)	<b>TCAs</b> <i>118 events</i> IRR (95% CI)
Unexposed	0.12 (0.09 - 0.17)	0.12 (0.08 - 0.17)	0.19 (0.10 - 0.35)	0.14 (0.06 - 0.31)	0.06 (0.03 - 0.15)	0.15 (0.08 - 0.30)
Pre-exposure 1 (- 4 months)	0.37 (0.22 - 0.61)	0.37 (0.19 - 0.72)	0.43 (0.15 - 1.22)	0.62 (0.20 - 1.91)	0.47 (0.12 - 1.82)	0.29 (0.08 - 1.03)
Pre-exposure 2 (- 3 months)	0.59 (0.38 - 0.90)	0.68 (0.40 - 1.15)	0.58 (0.23 - 1.48)	0.75 (0.26 - 2.18)	0.32 (0.07 - 1.52)	0.09 (0.01 - 0.71)
Pre-exposure 3 (-2 months)	0.65 (0.43 - 0.98)	0.57 (0.33 - 0.99)	0.67 (0.27 - 1.63)	0.88 (0.32 - 2.42)	0.77 (0.24 - 2.44)	0.46 (0.16 - 1.33)
Pre-exposure 4 (- 1 month)	Reference	Reference	Reference	Reference	Reference	Reference
Prescription day	11.48 (7.93 - 16.62)	8.63 (5.13 - 14.52)	18.21 (8.69 - 38.16)	12.58 (4.72 - 33.53)	3.73 (0.77 - 17.97)	3.47 (0.97 - 12.45)
Week 1	0.69 (0.35 - 1.35)	0.60 (0.24 - 1.54)	1.41 (0.45 - 4.38)	0.57 (0.07 - 4.60)	No events	0.77 (0.17 - 3.50)
Week 2	0.96 (0.55 - 1.68)	0.63 (0.26 - 1.49)	1.53 (0.54 - 4.35)	0.91 (0.19 - 4.31)	1.02 (0.21 - 4.90)	0.33 (0.04 - 2.57)
Week 3	1.33 (0.82 - 2.19)	0.96 (0.46 - 1.99)	2.17 (0.85 - 5.51)	0.45 (0.06 - 3.63)	2.02 (0.59 - 6.93)	1.01 (0.28 - 3.61)
Week 4	1.23 (0.73 - 2.07)	0.88 (0.41 - 1.90)	1.36 (0.44 - 4.23)	0.97 (0.21 - 4.57)	1.63 (0.42 - 6.35)	0.37 (0.05 - 2.90)
Rest of AD episode	0.64 (0.45 - 0.90)	0.60 (0.38 - 0.93)	1.13 (0.56 - 2.27)	0.31 (0.12 - 0.81)	0.39 (0.12 - 1.24)	0.48 (0.18 - 1.25)
Wash-out 1 (+ 1 month)	0.28 (0.16 - 0.48)	0.39 (0.21 - 0.72)	0.47 (0.18 - 1.26)	0.13 (0.02 - 1.01)	0.27 (0.05 - 1.29)	0.09 (0.01 - 0.69)
Wash-out 2 (+ 2 months)	0.32 (0.19 - 0.55)	0.28 (0.14 - 0.56)	0.41 (0.14 - 1.17)	0.26 (0.05 - 1.21)	0.14 (0.02 - 1.13)	0.43 (0.15 - 1.25)
Wash-out 3 (+ 3 months)	0.19 (0.12 - 0.31)	0.18 (0.11 - 0.30)	0.41 (0.21 - 0.81)	0.35 (0.16 - 0.79)	0.23 (0.09 - 0.60)	0.35 (0.17 - 0.73)

†Number of events in young people taking antidepressant

**eTable 3: Incidence Rate Ratios (IRRs) for suicidal ideation for different antidepressants by risk period and antidepressant type: selective serotonin reuptake inhibitors (SSRIs) and tricyclic antidepressants (TCAs)**

<b>Risk period</b>	<b>SSRIs</b> <i>458 events</i> † IRR (95% CI)	<b>fluoxetine</b> <i>240 events</i> † IRR (95% CI)	<b>citalopram</b> <i>108 events</i> † IRR (95% CI)	<b>sertraline</b> <i>36 events</i> † IRR (95% CI)	<b>paroxetine</b> <i>41 events</i> † IRR (95% CI)	<b>TCAs</b> <i>81 events</i> IRR (95% CI)
Unexposed	0.07 (0.05 - 0.10)	0.06 (0.04 - 0.09)	0.14 (0.06 - 0.32)	0.13 (0.05 - 0.34)	0.06 (0.02 - 0.18)	0.09 (0.05 - 0.18)
Pre-exposure 1 (- 4 months)	0.29 (0.15 - 0.54)	0.17 (0.07 - 0.44)	0.75 (0.24 - 2.35)	0.36 (0.07 - 1.79)	0.21 (0.02 - 1.77)	0.15 (0.03 - 0.68)
Pre-exposure 2 (- 3 months)	0.45 (0.26 - 0.77)	0.31 (0.15 - 0.65)	0.87 (0.29 - 2.59)	0.55 (0.14 - 2.20)	0.40 (0.08 - 2.09)	0.30 (0.10 - 0.90)
Pre-exposure 3 (-2 months)	0.76 (0.48 - 1.19)	0.56 (0.31 - 1.02)	1.27 (0.47 - 3.41)	1.07 (0.35 - 3.33)	0.98 (0.28 - 3.38)	0.21 (0.06 - 0.74)
Pre-exposure 4 (- 1 month)	Reference	Reference	Reference	Reference	Reference	Reference
Prescription day	33.41 (23.56 - 47.39)	25.34 (16.34 - 39.31)	71.07 (31.77 - 159.01)	8.43 (2.37 - 29.93)	20.90 (6.83 - 64.01)	14.00 (6.81 - 28.75)
Week 1	0.38 (0.13 - 1.05)	0.43 (0.13 - 1.40)	0.61 (0.07 - 4.95)	No events	No events	0.59 (0.13 - 2.59)
Week 2	0.57 (0.26 - 1.27)	0.25 (0.06 - 1.03)	0.52 (0.06 - 4.23)	1.20 (0.24 - 5.96)	No events	0.25 (0.03 - 1.91)
Week 3	1.56 (0.91 - 2.68)	1.24 (0.60 - 2.53)	4.17 (1.51 - 11.51)	No events	1.49 (0.29 - 7.70)	1.03 (0.34 - 3.13)
Week 4	0.98 (0.51 - 1.91)	1.23 (0.58 - 2.59)	0.55 (0.07 - 4.50)	0.62 (0.07 - 5.16)	No events	0.84 (0.24 - 2.94)
Rest of AD episode	0.72 (0.49 - 1.08)	0.49 (0.29 - 0.82)	1.40 (0.58 - 3.37)	0.47 (0.16 - 1.35)	1.30 (0.43 - 3.90)	0.52 (0.20 - 1.35)
Wash-out 1 (+ 1 month)	0.40 (0.23 - 0.70)	0.38 (0.20 - 0.75)	0.27 (0.06 - 1.31)	0.33 (0.07 - 1.66)	0.20 (0.02 - 1.72)	0.43 (0.16 - 1.11)
Wash-out 2 (+ 2 months)	0.12 (0.06 - 0.29)	0.13 (0.04 - 0.36)	0.55 (0.16 - 1.88)	0.34 (0.07 - 1.73)	0.57 (0.14 - 2.42)	0.27 (0.09 - 0.83)
Wash-out 3 (+ 3 months)	0.20 (0.12 - 0.33)	0.15 (0.08 - 2.73)	0.50 (0.21 - 1.18)	0.07 (0.02 - 0.21)	0.08 (0.02 - 0.27)	0.13 (0.06 - 0.27)

†Number of events in young people taking antidepressant