

**Antidepressant use and risk of suicide and attempted suicide/self-harm in people aged 20 to 64:
cohort study using a primary care database**

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SUPPLEMENTARY TABLES

Table 1s: Baseline characteristics of patients according to the type of antidepressant first prescribed (numbers and column %)

	First antidepressant prescribed											
		Tricyclic and related antidepressants				Selective serotonin reuptake inhibitors					Others	
	None	Amitriptyline	Dosulepin	Lofepamine	Trazodone	Citalopram	Fluoxetine	Sertraline	Paroxetine	Escitalopram	Venlafaxine	Mirtazapine
Sex												
Male	11,871 (40.3)	6,107 (37.9)	3,663 (38.9)	1,275 (35.7)	633 (47.0)	26,705 (39.5)	24,973 (37.1)	4,179 (37.1)	5,060 (39.3)	3,290 (38.5)	1,752 (45.2)	1,982 (52.1)
Female	17,616 (59.7)	9,991 (62.1)	5,751 (61.1)	2,292 (64.3)	713 (53.0)	40,910 (60.5)	42,369 (62.9)	7,101 (63.0)	7,813 (60.7)	5,259 (61.5)	2,125 (54.8)	1,826 (48.0)
Mean age (SD)	38.6 (11.4)	42.3 (11.2)	41.9 (11.5)	38.8 (11.1)	40.3 (11.6)	39.8 (11.0)	38.8 (10.9)	38.9 (11.2)	38.3 (11.2)	39.9 (10.9)	39.7 (11.0)	41.0 (11.2)
Ethnicity												
White/not recorded	27,265 (92.5)	14,822 (92.1)	9,073 (96.4)	3,416 (95.8)	1,295 (96.2)	64,574 (95.5)	64,821 (96.3)	10,641 (94.3)	12,500 (97.1)	8,208 (96.0)	3,777 (97.4)	3,546 (93.1)
Other	29,487 (7.5)	16,098 (7.9)	9,414 (3.6)	3,567 (4.2)	1,346 (3.8)	67,615 (4.5)	67,342 (3.7)	11,280 (5.7)	12,873 (2.9)	8,549 (4.0)	3,877 (2.6)	3,808 (6.9)
Depression severity												
Mild	21,911 (74.3)	12,144 (75.4)	7,146 (75.9)	2,399 (67.3)	1,011 (75.1)	48,795 (72.2)	46,023 (68.3)	7,575 (67.2)	9,555 (74.2)	6,406 (74.9)	2,921 (75.3)	2,704 (71.0)
Moderate	6,984 (23.7)	3,429 (21.3)	1,915 (20.3)	1,021 (28.6)	257 (19.1)	16,691 (24.7)	18,585 (27.6)	3,170 (28.1)	2,740 (21.3)	1,755 (20.5)	783 (20.2)	903 (23.7)
Severe	592 (2.0)	525 (3.3)	353 (3.8)	147 (4.1)	78 (5.8)	2,129 (3.2)	2,734 (4.1)	535 (4.7)	578 (4.5)	388 (4.5)	173 (4.5)	201 (5.3)
Smoking												
Recorded	28,377	15,889	9,150	3,458	1,312	66,500	65,849	10,979	12,370	8,361	3,726	3,720
Non smoker	14,490 (51.1)	7,610 (47.9)	4,244 (46.4)	1,497 (43.3)	521 (39.7)	31,587 (47.5)	30,873 (46.9)	5,241 (47.7)	5,775 (46.7)	4,031 (48.2)	1,723 (46.2)	1,544 (41.5)
Ex smoker	4,460 (15.7)	2,472 (15.6)	1,263 (13.8)	522 (15.1)	201 (15.3)	10,263 (15.4)	9,792 (14.9)	1,731 (15.8)	1,717 (13.9)	1,225 (14.7)	524 (14.1)	480 (12.9)
Current smoker	9,427 (33.2)	5,807 (36.6)	3,643 (39.8)	1,439 (41.6)	590 (45.0)	24,650 (37.1)	25,184 (38.3)	4,007 (36.5)	4,878 (39.4)	3,105 (37.1)	1,479 (39.7)	1,696 (45.6)
Current smoker: light	3,052 (10.8)	1,593 (10.0)	866 (9.5)	363 (10.5)	133 (10.1)	6,947 (10.5)	6,780 (10.3)	1,149 (10.5)	1,265 (10.2)	809 (9.7)	350 (9.4)	422 (11.3)

	First antidepressant prescribed											
		Tricyclic and related antidepressants				Selective serotonin reuptake inhibitors					Others	
	None	Amitriptyline	Dosulepin	Lofepamine	Trazodone	Citalopram	Fluoxetine	Sertraline	Paroxetine	Escitalopram	Venlafaxine	Mirtazapine
Current smoker: moderate	4,311 (15.2)	2,572 (16.2)	1,692 (18.5)	653 (18.9)	249 (19.0)	11,550 (17.4)	11,912 (18.1)	1,839 (16.8)	2,209 (17.9)	1,441 (17.2)	712 (19.1)	772 (20.8)
Current smoker: heavy	2,064 (7.3)	1,642 (10.3)	1,085 (11.9)	423 (12.2)	208 (15.9)	6,153 (9.3)	6,492 (9.9)	1,019 (9.3)	1,404 (11.4)	855 (10.2)	417 (11.2)	502 (13.5)
Alcohol												
Recorded	24,626	14,236	8,072	3,090	1,134	57,740	57,110	9,587	10,823	7,182	3,218	3,243
Non drinker	6,448 (26.2)	4,713 (33.1)	2,327 (28.8)	876 (28.4)	310 (27.3)	15,122 (26.2)	15,203 (26.6)	2,724 (28.4)	2,828 (26.1)	1,907 (26.6)	867 (26.9)	999 (30.8)
Trivial (<1 unit/day)	9,352 (38.0)	5,233 (36.8)	2,985 (37.0)	1,243 (40.2)	390 (34.4)	22,163 (38.4)	22,368 (39.2)	3,638 (38.0)	4,094 (37.8)	2,794 (38.9)	1,143 (35.5)	1,024 (31.6)
Light (1-2 units /day)	6,615 (26.9)	3,149 (22.1)	1,978 (24.5)	708 (22.9)	300 (26.5)	14,854 (25.7)	14,348 (25.1)	2,388 (24.9)	2,757 (25.5)	1,801 (25.1)	853 (26.5)	809 (25.0)
Moderate (3-6 units/day)	1,725 (7.0)	867 (6.1)	592 (7.3)	191 (6.2)	95 (8.4)	4,298 (7.4)	3,969 (7.0)	645 (6.7)	810 (7.5)	518 (7.2)	268 (8.3)	287 (8.9)
Heavy (7-9 units/day)	240 (1.0)	121 (0.9)	74 (0.9)	37 (1.2)	12 (1.1)	631 (1.1)	599 (1.1)	86 (0.9)	164 (1.5)	74 (1.0)	43 (1.3)	56 (1.7)
Very heavy (> 9 units/day)	246 (1.0)	153 (1.8)	116 (1.4)	35 (1.1)	27 (2.4)	672 (1.2)	623 (1.1)	106 (1.1)	170 (1.6)	88 (1.2)	44 (1.4)	68 (2.1)
Townsend												
Recorded	28,401	15,645	9,161	3,365	1,296	65,757	64,552	10,896	12,472	8,266	3,709	3,657
1 (least deprived)	5,113 (18.0)	2,691 (17.2)	1,802 (19.7)	543 (16.1)	197 (15.2)	13,733 (20.9)	12,748 (19.8)	2,069 (19.0)	2,386 (19.1)	1,772 (21.4)	785 (21.2)	512 (14.0)
2	5,389 (19.0)	2,998 (19.2)	1,776 (19.4)	581 (17.3)	225 (17.4)	13,505 (20.5)	13,343 (20.7)	2,110 (19.4)	2,461 (19.7)	1,824 (22.1)	754 (20.3)	563 (15.4)
3	5,595 (19.7)	3,051 (19.5)	1,873 (20.5)	693 (20.6)	260 (20.1)	13,869 (21.1)	13,987 (21.7)	2,313 (21.2)	2,698 (21.6)	1,781 (21.6)	792 (21.4)	662 (18.1)
4	5,827 (20.5)	3,346 (21.4)	1,899 (20.7)	753 (22.4)	247 (19.1)	13,039 (19.8)	13,286 (20.6)	2,272 (20.9)	2,528 (20.3)	1,521 (18.4)	697 (18.8)	890 (24.3)
5 (most deprived)	6,477 (22.8)	3,559 (22.8)	1,811 (19.8)	795 (23.6)	367 (28.3)	11,611 (17.7)	11,188 (17.3)	2,132 (19.6)	2,399 (19.2)	1,368 (16.6)	681 (18.4)	1,030 (28.2)
Total	29,487	16,098	9,414	3,567	1,346	67,615	67,342	11,280	12,873	8,549	3,877	3,808

Table 2s: Baseline comorbidities of patients according to the first antidepressant prescribed (numbers and column %)

	First antidepressant prescribed											
		Tricyclic and related antidepressants				Selective serotonin reuptake inhibitors					Others	
	None	Amitriptyline	Dosulepin	Lofepamine	Trazodone	Citalopram	Fluoxetine	Sertraline	Paroxetine	Escitalopram	Venlafaxine	Mirtazapine
Comorbidities												
coronary heart disease	632 (2.1)	336 (2.1)	146 (1.6)	40 (1.1)	34 (2.5)	1,123 (1.7)	1,038 (1.5)	224 (2.0)	173 (1.3)	130 (1.5)	55 (1.4)	102 (2.7)
diabetes	1,195 (4.1)	735 (4.6)	228 (2.4)	82 (2.3)	53 (3.9)	2,003 (3.0)	1,951 (2.9)	326 (2.9)	228 (1.8)	249 (2.9)	85 (2.2)	127 (3.3)
hypertension	2,240 (7.6)	1,495 (9.3)	738 (7.8)	200 (5.6)	120 (8.9)	5,044 (7.5)	4,524 (6.7)	771 (6.8)	677 (5.3)	600 (7.0)	234 (6.0)	298 (7.8)
stroke/TIA	210 (0.7)	154 (1.0)	74 (0.8)	28 (0.8)	7 (0.5)	508 (0.8)	443 (0.7)	88 (0.8)	69 (0.5)	42 (0.5)	41 (1.1)	41 (1.1)
cancer	403 (1.4)	361 (2.2)	170 (1.8)	61 (1.7)	19 (1.4)	1,106 (1.6)	1,006 (1.5)	190 (1.7)	142 (1.1)	141 (1.7)	80 (2.1)	66 (1.7)
epilepsy/seizures	534 (1.8)	190 (1.2)	108 (1.2)	53 (1.5)	25 (1.9)	980 (1.5)	772 (1.2)	152 (1.4)	118 (0.9)	98 (1.2)	126 (3.3)	100 (2.6)
hypothyroidism	547 (1.9)	457 (2.8)	203 (2.2)	50 (1.4)	28 (2.1)	1,595 (2.4)	1,503 (2.2)	226 (2.0)	209 (1.6)	194 (2.3)	75 (1.9)	83 (2.2)
obsessive-compulsive disorder	55 (0.2)	22 (0.1)	8 (0.1)	7 (0.2)	1 (0.1)	121 (0.2)	121 (0.2)	42 (0.4)	53 (0.4)	22 (0.3)	16 (0.4)	6 (0.2)
Rheumatoid arthritis	118 (0.4)	168 (1.0)	69 (0.7)	23 (0.6)	7 (0.5)	341 (0.5)	332 (0.5)	61 (0.5)	57 (0.4)	55 (0.6)	18 (0.5)	31 (0.8)
Osteoarthritis	762 (2.6)	933 (5.8)	362 (3.9)	112 (3.1)	50 (3.7)	1,968 (2.9)	1,803 (2.7)	307 (2.7)	278 (2.2)	283 (3.3)	94 (2.4)	141 (3.7)
Osteoporosis	96 (0.3)	91 (0.6)	39 (0.4)	8 (0.2)	5 (0.4)	256 (0.4)	218 (0.3)	37 (0.3)	37 (0.3)	34 (0.4)	16 (0.4)	16 (0.4)
Liver disease	101 (0.3)	57 (0.4)	31 (0.3)	16 (0.5)	11 (0.8)	184 (0.3)	181 (0.3)	32 (0.3)	19 (0.2)	19 (0.2)	8 (0.2)	26 (0.7)
Renal disease	77 (0.3)	43 (0.3)	21 (0.2)	6 (0.2)	4 (0.3)	171 (0.3)	126 (0.2)	39 (0.4)	25 (0.2)	19 (0.2)	5 (0.1)	4 (0.1)
Asthma/COPD	3,772 (12.8)	2,392 (14.9)	1,236 (13.1)	470 (13.2)	173 (12.9)	9,126 (13.5)	9,120 (13.5)	1,494 (13.2)	1,498 (11.6)	1,053 (12.3)	436 (11.3)	541 (14.2)
Attempted suicide/ self-harm	1,102 (3.7)	622 (3.9)	345 (3.7)	190 (5.3)	92 (6.8)	2,904 (4.3)	2,897 (4.3)	496 (4.4)	516 (4.0)	357 (4.2)	201 (5.2)	282 (7.4)

Table 3s: Baseline medications of patients according to the first antidepressant prescribed (numbers and column %)

	First antidepressant prescribed											
	Tricyclic and related antidepressants					Selective serotonin reuptake inhibitors					Others	
	None	Amitriptyline	Dosulepin	Lofepramine	Trazodone	Citalopram	Fluoxetine	Sertraline	Paroxetine	Escitalopram	Venlafaxine	Mirtazapine
Medications at baseline												
Anticonvulsants	407 (1.4)	298 (1.9)	73 (0.8)	34 (1.0)	21 (1.6)	732 (1.1)	478 (0.7)	125 (1.1)	85 (0.7)	98 (1.2)	133 (3.4)	103 (2.7)
Antihypertensives	2,861 (9.7)	2,313 (14.4)	1,111 (11.8)	342 (9.6)	159 (11.8)	7,408 (11.0)	6,460 (9.6)	1,221 (10.8)	1,233 (9.6)	884 (10.3)	402 (10.4)	476 (12.5)
Anticoagulants	152 (0.5)	96 (0.6)	35 (0.4)	27 (0.8)	7 (0.5)	310 (0.5)	254 (0.4)	57 (0.5)	37 (0.3)	27 (0.3)	15 (0.4)	26 (0.7)
Anti-psychotics	69 (0.2)	45 (0.3)	37 (0.4)	16 (0.5)	11 (0.8)	180 (0.3)	131 (0.2)	61 (0.5)	74 (0.6)	18 (0.2)	48 (1.2)	37 (1.0)
Aspirin	1,006 (3.4)	676 (4.2)	283 (3.0)	85 (2.4)	52 (3.9)	2,004 (3.0)	1,839 (2.7)	341 (3.0)	263 (2.0)	211 (2.5)	103 (2.7)	165 (4.3)
Bisphosphonates	86 (0.3)	101 (0.6)	35 (0.4)	7 (0.2)	7 (0.5)	245 (0.4)	232 (0.3)	31 (0.3)	25 (0.2)	34 (0.4)	16 (0.4)	17 (0.5)
Hypnotics/anxiolytics	509 (1.7)	922 (5.7)	544 (5.8)	189 (5.3)	100 (7.4)	3,714 (5.5)	2,610 (3.9)	588 (5.2)	722 (5.6)	549 (6.4)	280 (7.2)	369 (9.7)
NSAIDs	764 (2.6)	2,248 (14.0)	726 (7.7)	219 (6.1)	93 (6.9)	3,081 (4.6)	3,303 (4.9)	537 (4.8)	612 (4.8)	440 (5.2)	196 (5.1)	246 (6.5)
Statins	1,544 (5.2)	1,000 (6.2)	358 (3.8)	86 (2.4)	82 (6.1)	3,379 (5.0)	2,667 (4.0)	539 (4.8)	289 (2.3)	350 (4.1)	130 (3.4)	249 (6.5)
Oral contraceptives*	2,978 (16.9)	1,381 (13.8)	931 (16.2)	476 (20.8)	116 (16.3)	7,495 (18.3)	9,005 (21.3)	1,353 (19.1)	1,715 (22.0)	983 (18.7)	335 (15.8)	263 (14.4)
HRT*	590 (3.4)	743 (7.4)	516 (9.0)	102 (4.5)	36 (5.1)	1,790 (4.4)	1,968 (4.6)	305 (4.3)	540 (6.9)	273 (5.2)	129 (6.1)	88 (4.8)

* Given percentage is for female patients only.

Table 4s. Unadjusted and adjusted hazard ratios for suicide by antidepressant class, dose, duration and individual drug for a 1 year follow-up period.

for a 1 year follow-up period.							
		Unadjusted analysis			Adjusted analysis		
	No of events*	HR	95% CI	P	HR	95% CI	P
Antidepressant class							
Selective serotonin reuptake inhibitors	45	1.00	reference		1.00	reference	
Tricyclic and related antidepressants	6	0.78	(0.33 to 1.81)	0.6	0.82	(0.34 to 1.98)	0.7
Other antidepressants	16	4.51	(2.58 to 7.86)	<0.001	3.64	(2.07 to 6.38)	<0.001
Combined antidepressants	1	2.83	(0.38 to 20.9)	0.3	2.42	(0.32 to 18.15)	0.4
No current use	14	0.43	(0.24 to 0.79)	0.006	0.43	(0.23 to 0.79)	0.007
Antidepressant class and dose categories							
<i>Selective serotonin reuptake inhibitors:</i>							
≤ 0.5 DDD	0	-	-		-	-	
>0.5 DDD/≤ 1.0 DDD	34	1.00	reference		1.00	reference	
> 1.0 DDD	10	2.11	(1.07 to 4.16)	0.03	1.80	(0.91 to 3.57)	0.09
<i>Tricyclic and related antidepressants:</i>							
≤ 0.5 DDD	3	0.68	(0.21 to 2.17)	0.5	0.72	(0.22 to 2.37)	0.6
>0.5 DDD/≤ 1.0 DDD	2	1.54	(0.37 to 6.35)	0.5	1.54	(0.37 to 6.44)	0.6
> 1.0 DDD	1	1.17	(0.16 to 8.57)	0.9	1.21	(0.16 to 9.05)	0.9
<i>Others:</i>							
≤ 0.5 DDD	2	3.70	(0.92 to 14.90)	0.07	2.87	(0.68 to 12.01)	0.2
>0.5 DDD/≤ 1.0 DDD	9	5.01	(2.45 to 10.25)	<0.001	4.04	(1.99 to 8.19)	<0.001
> 1.0 DDD	5	9.01	(3.51 to 23.1)	<0.001	6.42	(2.47 to 16.72)	<0.001
Antidepressant drug							
<i>Selective serotonin reuptake inhibitors:</i>							
Citalopram	19	1.00	reference		1.00	reference	
Escitalopram	3	1.15	(0.34 to 3.89)	0.8	1.19	(0.34 to 4.12)	0.8
Fluoxetine	14	0.72	(0.37 to 1.43)	0.3	0.90	(0.44 to 1.81)	0.8
Paroxetine	6	1.54	(0.61 to 3.87)	0.4	1.72	(0.66 to 4.49)	0.3
Sertraline	3	0.82	(0.25 to 2.64)	0.7	0.90	(0.28 to 2.94)	0.9
<i>Tricyclic and related antidepressants:</i>							
Amitriptyline	1	0.28	(0.04 to 2.11)	0.2	0.37	(0.05 to 2.86)	0.3
Dosulepin	3	1.08	(0.32 to 3.67)	0.9	1.18	(0.32 to 4.35)	0.8
Lofepramine	1	0.85	(0.11 to 6.34)	0.9	1.05	(0.13 to 8.51)	1.0
Trazodone	1	2.43	(0.32 to 18.25)	0.4	2.24	(0.29 to 17.22)	0.4
<i>Others:</i>							
Mirtazapine	8	5.21	(2.34 to 11.61)	<0.001	4.05	(1.79 to 9.16)	0.001
Venlafaxine	6	3.11	(1.24 to 7.81)	0.02	3.07	(1.18 to 7.96)	0.02
All other antidepressants	2	2.47	(0.61 to 10.02)	0.2	2.65	(0.62 to 11.22)	0.2
Combined antidepressants	1	2.62	(0.35 to 19.91)	0.4	2.47	(0.32 to 19.22)	0.4

* Based on numbers in adjusted analysis

DDD = defined daily dose

¹ Adjusted for age, sex, year of diagnosis of depression, severity of depression, deprivation, smoking status, alcohol intake, ethnic group (white/not recorded or non-white), attempted suicide/self-harm at baseline, coronary heart disease, diabetes, hypertension, cancer, epilepsy/seizures, hypothyroidism, osteoarthritis, asthma/chronic obstructive airways disease, statins, NSAIDs, aspirin, antihypertensive drugs, anticonvulsants, hypnotics/anxiolytics, oral contraceptives, hormone replacement therapy.

Table 5s. Unadjusted and adjusted hazard ratios for attempted suicide/self-harm by antidepressant class, dose, and individual drug for a one year follow-up period.

Individual drug for a one year follow up period.							
		Unadjusted analysis			Adjusted analysis ¹		
	No of events [*]	HR	95% CI	P	HR	95% CI	P
Antidepressant class							
Selective serotonin reuptake inhibitors	1368	1.00	reference		1.00	reference	
Tricyclic and related antidepressants	223	0.95	(0.83 to 1.09)	0.5	0.99	(0.87 to 1.14)	0.9
Other antidepressants	222	2.15	(1.85 to 2.50)	<0.001	1.97	(1.70 to 2.28)	<0.001
Combined antidepressants	23	2.33	(1.53 to 3.56)	<0.001	2.17	(1.40 to 3.36)	0.001
No current use	599	0.57	(0.52 to 0.64)	<0.001	0.55	(0.49 to 0.61)	<0.001
Antidepressant class and dose categories							
<i>Selective serotonin reuptake inhibitors:</i>							
≤ 0.5 DDD	62	0.81	(0.62 to 1.05)	0.1	0.89	(0.69 to 1.16)	0.4
>0.5 DDD/≤ 1.0 DDD	979	1.00	reference		1.00	reference	
> 1.0 DDD	282	2.38	(2.08 to 2.72)	<0.001	2.16	(1.88 to 2.48)	<0.001
<i>Tricyclic and related antidepressants:</i>							
≤ 0.5 DDD	118	0.93	(0.77 to 1.12)	0.4	1.00	(0.83 to 1.21)	1.0
>0.5 DDD/≤ 1.0 DDD	58	1.62	(1.23 to 2.13)	0.001	1.60	(1.22 to 2.11)	0.001
> 1.0 DDD	28	1.23	(0.87 to 1.72)	0.2	1.13	(0.79 to 1.60)	0.5
<i>Others:</i>							
≤ 0.5 DDD	24	1.63	(1.10 to 2.41)	0.01	1.59	(1.07 to 2.38)	0.02
>0.5 DDD/≤ 1.0 DDD	106	2.16	(1.74 to 2.68)	<0.001	1.98	(1.59 to 2.45)	<0.001
> 1.0 DDD	76	5.33	(4.24 to 6.69)	<0.001	4.46	(3.54 to 5.61)	<0.001
Antidepressant drug							
<i>Selective serotonin reuptake inhibitors:</i>							
Citalopram	560	1.00	reference		1.00	reference	
Escitalopram	84	1.11	(0.88 to 1.40)	0.4	1.14	(0.91 to 1.44)	0.3
Fluoxetine	497	0.91	(0.81 to 1.03)	0.1	0.92	(0.81 to 1.04)	0.2
Paroxetine	120	1.11	(0.92 to 1.33)	0.3	0.98	(0.81 to 1.20)	0.9
Sertraline	106	1.04	(0.86 to 1.27)	0.7	1.00	(0.81 to 1.22)	1.0
<i>Tricyclic and related antidepressants:</i>							
Amitriptyline	69	0.68	(0.54 to 0.86)	0.001	0.72	(0.57 to 0.92)	0.008
Dosulepin	82	1.01	(0.80 to 1.28)	0.9	1.06	(0.84 to 1.36)	0.6
Lofepramine	37	1.13	(0.84 to 1.54)	0.4	1.08	(0.79 to 1.49)	0.6
Trazodone	24	2.06	(1.31 to 3.23)	0.002	1.88	(1.21 to 2.92)	0.005
<i>Others:</i>							
Mirtazapine	85	2.07	(1.64 to 2.61)	<0.001	1.81	(1.44 to 2.28)	<0.001
Venlafaxine	121	2.28	(1.87 to 2.80)	<0.001	2.10	(1.71 to 2.58)	<0.001
All other antidepressants	28	1.26	(0.87 to 1.83)	0.2	1.15	(0.78 to 1.70)	0.5
Combined antidepressants	23	2.30	(1.50 to 3.53)	<0.001	2.11	(1.36 to 3.29)	0.001

* Based on numbers in adjusted analysis

DDD = defined daily dose

¹ Adjusted for age, sex, year of diagnosis of depression, severity of depression, deprivation, smoking status, alcohol intake, ethnic group (white/not recorded or non-white), coronary heart disease, diabetes, hypertension, cancer, epilepsy/seizures, hypothyroidism, osteoarthritis, asthma/chronic obstructive airways disease, stroke/TIA, rheumatoid arthritis, osteoporosis, liver disease, renal disease, obsessive-compulsive disorder, statins, NSAIDs, aspirin,

antihypertensive drugs, anticonvulsants, hypnotics/anxiolytics, oral contraceptives, hormone replacement therapy, antipsychotics, bisphosphonates, anticoagulants.

Table 6s. Adjusted hazard ratios for suicide and attempted suicide/self-harm by antidepressant class, dose, and individual drug for a five year follow-up period, from a sensitivity analysis counting gaps of more than 30 days between the end of one prescription and the start of the next as unexposed time.

	Suicide			Attempted suicide/self-harm		
	Adjusted HR ¹	95% CI	P	Adjusted HR ²	95% CI	P
Antidepressant class						
Selective serotonin reuptake inhibitors	1.00	reference		1.00	reference	
Tricyclic and related antidepressants	0.90	(0.48 to 1.69)	0.7	1.02	(0.91 to 1.14)	0.8
Other antidepressants	3.00	(1.95 to 4.60)	<0.001	1.84	(1.65 to 2.06)	<0.001
Combined antidepressants	1.51	(0.36 to 6.30)	0.6	1.97	(1.52 to 2.57)	<0.001
No current use	0.44	(0.31 to 0.62)	<0.001	0.37	(0.34 to 0.39)	<0.001
Antidepressant class and dose categories						
<i>Selective serotonin reuptake inhibitors:</i>						
≤ 0.5 DDD	0.28	(0.04 to 2.00)	0.2	0.76	(0.61 to 0.96)	0.02
>0.5 DDD/≤ 1.0 DDD	1.00	reference		1.00	reference	
> 1.0 DDD	1.38	(0.79 to 2.41)	0.3	1.81	(1.63 to 2.01)	<0.001
<i>Tricyclic and related antidepressants:</i>						
≤ 0.5 DDD	0.95	(0.40 to 2.23)	0.9	1.07	(0.91 to 1.25)	0.4
>0.5 DDD/≤ 1.0 DDD	0.37	(0.05 to 2.67)	0.3	1.24	(0.97 to 1.58)	0.09
> 1.0 DDD	1.71	(0.53 to 5.47)	0.4	1.35	(1.04 to 1.75)	0.02
<i>Others:</i>						
≤ 0.5 DDD	4.21	(1.64 to 10.82)	0.003	1.84	(1.40 to 2.42)	<0.001
>0.5 DDD/≤ 1.0 DDD	3.90	(2.27 to 6.71)	<0.001	1.92	(1.64 to 2.25)	<0.001
> 1.0 DDD	2.00	(0.83 to 4.78)	0.1	2.96	(2.52 to 3.47)	<0.001
Antidepressant drug						
<i>Selective serotonin reuptake inhibitors:</i>						
Citalopram	1.00	reference		1.00	reference	
Escitalopram	1.12	(0.38 to 3.26)	0.8	1.05	(0.87 to 1.27)	0.6
Fluoxetine	1.12	(0.62 to 2.05)	0.7	0.94	(0.85 to 1.04)	0.2
Paroxetine	1.64	(0.74 to 3.63)	0.2	0.92	(0.78 to 1.09)	0.3
Sertraline	1.24	(0.50 to 3.12)	0.6	1.11	(0.95 to 1.29)	0.2
<i>Tricyclic and related antidepressants:</i>						
Amitriptyline	0.94	(0.32 to 2.75)	0.9	0.77	(0.64 to 0.94)	0.009
Dosulepin	1.08	(0.37 to 3.17)	0.9	1.06	(0.86 to 1.29)	0.6
Lofepramine	0.69	(0.09 to 5.21)	0.7	1.24	(0.97 to 1.59)	0.09
Trazodone	2.58	(0.60 to 11.19)	0.2	1.80	(1.31 to 2.47)	<0.001
<i>Others:</i>						
Mirtazapine	4.63	(2.41 to 8.89)	<0.001	1.78	(1.49 to 2.13)	<0.001
Venlafaxine	2.52	(1.23 to 5.17)	0.01	1.90	(1.64 to 2.20)	<0.001
All other antidepressants	1.50	(0.36 to 6.32)	0.6	1.07	(0.79 to 1.44)	0.7
Combined antidepressants	1.71	(0.38 to 7.65)	0.5	1.94	(1.49 to 2.53)	<0.001

DDD = defined daily dose

¹ Adjusted for variables listed in footnote to Table 4s

² Adjusted for variables listed in footnote to Table 5s

Table 7s. Unadjusted and adjusted hazard ratios for suicide by antidepressant class, dose, and individual drug for a five year follow-up period, restricted to 132 cases specifically coded as suicide on the linked death certificates.

	Unadjusted analysis			Adjusted analysis ¹		
	HR	95% CI	P	HR	95% CI	P
Antidepressant class						
Selective serotonin reuptake inhibitors	1.00	reference		1.00	reference	
Tricyclic and related antidepressants	1.23	(0.64 to 2.37)	0.5	1.11	(0.57 to 2.15)	0.8
Other antidepressants	4.67	(2.89 to 7.54)	<0.001	3.33	(2.03 to 5.46)	<0.001
Combined antidepressants	2.75	(0.64 to 11.69)	0.2	2.41	(0.55 to 10.48)	0.2
No current use	0.48	(0.31 to 0.73)	0.001	0.41	(0.26 to 0.64)	<0.001
Antidepressant class and dose categories						
<i>Selective serotonin reuptake inhibitors:</i>						
≤ 0.5 DDD	0.32	(0.04 to 2.3)	0.3	0.36	(0.05 to 2.57)	0.3
>0.5 DDD/≤ 1.0 DDD	1.00	reference		1.00	reference	
> 1.0 DDD	1.92	(1.05 to 3.51)	0.03	1.79	(0.97 to 3.29)	0.06
Test for trend ²			0.004			0.02
<i>Tricyclic and related antidepressants:</i>						
≤ 0.5 DDD	1.02	(0.40 to 2.57)	1.0	0.96	(0.37 to 2.45)	0.9
>0.5 DDD/≤ 1.0 DDD	1.87	(0.58 to 6.07)	0.3	1.54	(0.48 to 4.95)	0.5
> 1.0 DDD	1.94	(0.47 to 8.07)	0.4	1.60	(0.39 to 6.68)	0.5
Test for trend ²			0.6			0.9
<i>Others:</i>						
≤ 0.5 DDD	5.40	(1.95 to 14.93)	0.001	4.84	(1.72 to 13.65)	0.003
>0.5 DDD/≤ 1.0 DDD	6.57	(3.62 to 11.92)	<0.001	4.57	(2.48 to 8.41)	<0.001
> 1.0 DDD	3.11	(1.10 to 8.81)	0.03	2.08	(0.72 to 5.98)	0.17
Test for trend ²			0.6			0.4
Antidepressant drug						
<i>Selective serotonin reuptake inhibitors:</i>						
Citalopram	1.00	reference		1.00	reference	
Escitalopram	1.20	(0.35 to 4.12)	0.8	1.08	(0.31 to 3.70)	0.9
Fluoxetine	1.04	(0.51 to 2.08)	0.9	1.04	(0.51 to 2.11)	0.9
Paroxetine	2.42	(1.04 to 5.65)	0.04	1.68	(0.70 to 4.02)	0.2
Sertraline	1.14	(0.38 to 3.40)	0.8	1.10	(0.37 to 3.3)	0.9
<i>Tricyclic and related antidepressants:</i>						
Amitriptyline	0.56	(0.13 to 2.43)	0.4	0.56	(0.13 to 2.51)	0.4
Dosulepin	2.08	(0.76 to 5.70)	0.2	1.57	(0.56 to 4.39)	0.4
Lofepramine	2.05	(0.47 to 8.86)	0.3	1.65	(0.37 to 7.45)	0.5
Trazodone	4.68	(1.08 to 20.33)	0.04	3.50	(0.79 to 15.53)	0.1
<i>Others:</i>						
Mirtazapine	7.99	(4.06 to 15.73)	<0.001	5.85	(2.95 to 11.59)	<0.001
Venlafaxine	3.53	(1.55 to 8.03)	0.003	2.18	(0.90 to 5.26)	0.08
All other antidepressants	2.29	(0.55 to 9.62)	0.3	1.87	(0.44 to 7.87)	0.4
Combined antidepressants	3.11	(0.69 to 13.97)	0.1	2.64	(0.57 to 12.16)	0.2

DDD = defined daily dose

¹ Adjusted for age, sex, year of diagnosis of depression, severity of depression, deprivation, smoking status, alcohol intake, ethnic group (white/not recorded or non-white), attempted suicide/self-harm at baseline, coronary heart disease, diabetes, hypertension, cancer, epilepsy/seizures, osteoarthritis, asthma/chronic obstructive airways disease, statins, NSAIDs, aspirin, antihypertensive drugs, anticonvulsants, hypnotics/anxiolytics, oral contraceptives, hormone replacement therapy.

² Test for trend uses continuous values of dose