

Supplementary Materials

Antidepressants and the Risk of Fall-related Injury in Older Adults with Incident Depression in the United States: A Comparative Safety Analysis

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Table S1. Results for the full sample.

Comparator	(Es)citalopram			Sertraline		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.46	(1.33, 1.60)	<0.0001	1.43	(1.28, 1.60)	<0.0001
Duloxetine	1.27	(1.15, 1.39)	<0.0001	1.29	(1.6016, 1.44)	<0.0001
(Es)citalopram	--	--	--	0.98	(0.91, 1.04)	0.5019
Fluoxetine	1.04	(0.94, 1.15)	0.4484	1.05	(0.93, 1.18)	0.4536
Paroxetine	1.15	(1.04, 1.27)	0.0054	1.14	(1.01, 1.28)	0.0320
Sertraline	1.02	(0.96, 1.10)	0.5019	--	--	--
Venlafaxine	1.22	(1.10, 1.34)	<0.0001	1.22	(1.09, 1.37)	0.0006

Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.

Table S2. Results for subgroup by age (<75 and ≥75) for the risk of fall injury compared to (es)citalopram.

Comparator	<75 years			≥75 years		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.54	(1.28, 1.84)	<0.0001	1.49	(1.33, 1.66)	<0.0001
Duloxetine	1.17	(0.97, 1.40)	0.0946	1.30	(1.16, 1.45)	<0.0001
Fluoxetine	0.88	(0.72, 1.07)	0.1982	1.08	(0.96, 1.21)	0.2192
Paroxetine	0.97	(0.79, 1.19)	0.7610	1.22	(1.09, 1.37)	0.0006
Sertraline	1.03	(0.90, 1.19)	0.6669	1.02	(0.94, 1.10)	0.6569
Venlafaxine	0.98	(0.80, 1.19)	0.8146	1.31	(1.17, 1.46)	<0.0001

Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.

Table S3. Results for subgroup by age (<75 and ≥75) for the risk of fall injury compared to sertraline.

Comparator	<75 years			≥75 years		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.49	(1.21, 1.83)	0.0002	1.50	(1.32, 1.72)	<0.0001
Duloxetine	1.15	(0.94, 1.40)	0.1912	1.36	(1.20, 1.55)	<0.0001
(Es)citalopram	0.97	(0.84, 1.11)	0.6669	0.98	(0.91, 1.06)	0.6569
Fluoxetine	0.89	(0.70, 1.11)	0.2986	1.10	(0.95, 1.26)	0.1970
Paroxetine	0.86	(0.68, 1.09)	0.2224	1.22	(1.07, 1.40)	0.0030

Venlafaxine	0.92	(0.73, 1.15)	0.4586	1.34	(1.17, 1.53)	<0.0001
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Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.

Table S4. Results for subgroup by sex for the risk of fall injury compared to (es)citalopram.

Comparator	Male			Female		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.28	(1.07, 1.53)	0.0060	1.58	(1.41, 1.77)	<0.0001
Duloxetine	1.25	(1.06, 1.49)	0.0105	1.28	(1.15, 1.44)	<0.0001
Fluoxetine	1.22	(1.02, 1.46)	0.0302	0.93	(0.82, 1.06)	0.2770
Paroxetine	1.16	(0.96, 1.39)	0.1213	1.14	(1.02, 1.29)	0.0275
Sertraline	1.01	(0.89, 1.14)	0.8961	1.03	(0.95, 1.12)	0.4254
Venlafaxine	1.11	(0.92, 1.34)	0.2658	1.28	(1.14, 1.43)	<0.0001

Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.

Table S5. Results for subgroup by sex for the risk of fall injury compared to sertraline.

Comparator	Male			Female		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.20	(0.98, 1.47)	0.0793	1.59	(1.39, 1.82)	<0.0001
Duloxetine	1.20	(0.98, 1.45)	0.7190	1.33	(1.17, 1.52)	<0.0001
(Es)citalopram	0.99	(0.88, 1.12)	0.8961	0.97	(0.89, 1.05)	0.4254
Fluoxetine	1.20	(0.98, 1.47)	0.0863	0.94	(0.82, 1.09)	0.4403
Paroxetine	1.15	(0.93, 1.42)	0.1972	1.13	(0.98, 1.30)	0.0846
Venlafaxine	1.09	(0.88, 1.35)	0.4102	1.29	(1.13, 1.48)	0.0003

Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.

Table S6. Results for subgroup without a prior fall for the risk of fall injury compared to (es)citalopram and sertraline.

Comparator	Compared to (Es)citalopram			Compared to Sertraline		
	HR	95% CI	p	HR	95% CI	p
Bupropion	1.56	(1.42, 1.72)	<0.0001	1.61	(1.43, 1.81)	<0.0001
Duloxetine	1.33	(1.20, 1.46)	<0.0001	1.33	(1.17, 1.52)	<0.0001
(Es)citalopram	--	--	--	1.02	(0.95, 1.10)	0.5866
Fluoxetine	1.06	(0.95, 1.17)	0.3212	1.11	(0.98, 1.25)	0.1164
Paroxetine	1.14	(1.02, 1.26)	0.0172	1.17	(1.04, 1.33)	0.0125
Sertraline	0.98	(0.91, 1.05)	0.5866	--	--	--
Venlafaxine	1.24	(1.12, 1.37)	<0.0001	1.30	(1.15, 1.46)	<0.0001

Note: All comparisons estimated using propensity scores of an individual's likelihood to be prescribed a specific antidepressant, using multinomial logistic regression with age, sex, health plan type, region, year of diagnosis, CCI, and number of prior falls as the independent variables.