

Appendix 4 (as submitted by the authors)

Table 1 Rate ratios for selected health outcomes within 180 days after initiating therapy with psychotropic medication: Initially-Treated Analysis

	Death		Femur Fracture		Pneumonia		Heart Failure	
	IRR	(95% CI)	IRR	(95% CI)	IRR	(95% CI)	IRR	(95% CI)
Conventional vs. Atypical Antipsychotics								
Unadjusted	1.20	(1.02, 1.41)	1.15	(0.85, 1.56)	1.08	(0.78, 1.50)	1.14	(0.70, 1.86)
Adjusted								
Age, sex and calendar year	1.30	(1.08, 1.57)	1.15	(0.82, 1.63)	0.92	(0.63, 1.33)	1.19	(0.68, 2.08)
PS	1.33	(1.10, 1.61)	1.16	(0.82, 1.63)	0.96	(0.66, 1.41)	1.00	(0.56, 1.79)
hdPS	1.32	(1.07, 1.64)	1.12	(0.77, 1.62)	0.84	(0.57, 1.25)	0.80	(0.44, 1.47)
PS adjusted by patient subgroup								
No hx either treatment ⁽¹⁾	1.24	(1.00, 1.53)	1.20	(0.82, 1.75)	0.95	(0.63, 1.45)	1.11	(0.60, 2.05)
Dementia ⁽²⁾	1.33	(1.04, 1.72)						
No dementia	1.32	(0.99, 1.76)						
Antidepressants vs. Atypical Antipsychotics								
Unadjusted	1.18	(1.00, 1.38)	1.17	(0.87, 1.57)	1.15	(0.85, 1.57)	2.03	(1.33, 3.11)
Adjusted								
Age, sex and year	1.24	(1.05, 1.47)	1.10	(0.81, 1.50)	1.13	(0.82, 1.57)	1.99	(1.28, 3.09)
PS	1.11	(0.92, 1.33)	1.24	(0.87, 1.75)	0.99	(0.69, 1.41)	1.16	(0.71, 1.89)
hdPS	1.09	(0.90, 1.33)	1.23	(0.85, 1.77)	0.80	(0.55, 1.17)	0.93	(0.56, 1.57)
PS adjusted by patient subgroup								
No hx either treatment ⁽¹⁾	1.12	(0.91, 1.37)	1.35	(0.92, 2.00)	1.07	(0.71, 1.60)	1.27	(0.72, 2.24)
Dementia ⁽²⁾	1.15	(0.87, 1.53)						
No dementia	1.08	(0.84, 1.39)						
Benzodiazepines vs. Atypical Antipsychotics								
Unadjusted	1.11	(0.97, 1.28)	0.85	(0.65, 1.11)	1.03	(0.78, 1.36)	2.13	(1.45, 3.12)
Adjusted								
Age, sex and year	1.20	(1.03, 1.39)	0.77	(0.58, 1.03)	0.97	(0.73, 1.30)	2.02	(1.36, 3.01)
PS	1.05	(0.89, 1.23)	0.80	(0.58, 1.09)	0.81	(0.59, 1.12)	1.45	(0.94, 2.22)
hdPS	1.00	(0.84, 1.18)	0.88	(0.64, 1.22)	0.87	(0.62, 1.21)	1.42	(0.90, 2.26)
PS adjusted by patient subgroup								
No hx either treatment ⁽¹⁾	1.00	(0.84, 1.20)	0.85	(0.59, 1.22)	0.78	(0.55, 1.10)	1.65	(1.01, 2.70)
Dementia ⁽²⁾	0.98	(0.77, 1.25)						
No dementia	1.10	(0.89, 1.37)						

⁽¹⁾ Alternative definition of incident-user: i.e., patients without a history of either the referent (atypical APM) or comparator medication (conventional APM, antidepressant, benzodiazepine, respectively).

⁽²⁾ Due to the small number of events, subgroup analyses could not be run for the non-mortality outcomes.

IRR: incidence rate ratio; PS: propensity score; hdPS: high-dimensional propensity score; Hx: history