

**Appendix** Number of observed (O) and expected (E) cases, rate ratios<sup>1</sup> (RR) with upper and lower 95% CI for pneumococcal disease (including pneumonia, septicaemia and meningitis) in people with selected mental disorders, after excluding cases of pneumococcal disease within one year of first admission for each mental disorder, compared with the control cohort<sup>2</sup>, England

Diagnosis	Data set	Lobar pneumonia and pneumococcal disease combined				Lobar pneumonia				Pneumococcal pneumonia				Pneumococcal septicaemia				Pneumococcal meningitis			
		O	E	RR	95% CI	O	E	RR	95% CI	O	E	RR	95% CI	O	E	RR	95% CI	O	E	RR	95% CI
Schizophrenia	LHES	1671	718.7	2.3	2.2–2.5	1612	688.2	2.4	2.3–2.5	71	31.8	2.3	1.8–2.9	8	6.6	1.2	0.5–2.4	7	3.1	2.2	0.9–4.8
	ORLS2	57	22.2	2.6	2.0–3.4	56	21.4	2.6	2.0–3.4	†				†				†			
	ORLS1	45	28.2	1.6	1.2–2.2	43	26.5	1.6	1.2–2.2	†				†				†			
Bipolar disorder	LHES	2343	1062.5	2.2	2.1–2.3	2282	1027.9	2.2	2.2–2.3	76	38.4	2.0	1.6–2.5	7	8.6	0.8	0.3–1.7				
	ORLS2	69	34.2	2.0	1.6–2.6	67	33.2	2.0	1.6–2.6	†				†				†			
	ORLS1	76	51.5	1.5	1.2–1.9	74	49.0	1.5	1.2–1.9	†				†				†			
Depression	LHES	4032	2048.5	2.0	1.9–2.1	3930	1987.9	2.0	2.0–2.1	134	65.8	2.1	1.7–2.5	31	15.4	2.1	1.4–2.9	6	4.7	1.3	0.5–2.9
	ORLS2	186	93.3	2.0	1.8–2.4	183	90.9	2.1	1.8–2.4	9	2.7	3.6	1.6–7.0	†				†			
	ORLS1	141	102.3	1.4	1.2–1.7	134	96.6	1.4	1.2–1.7	6	2.9	2.1	0.8–4.8	†				†			
Anxiety	LHES	1626	786.0	2.1	2.0–2.2	1589	764.5	2.1	2.0–2.2	56	24.9	2.3	1.7–3.0	12	5.7	2.1	1.1–3.7	4	1.6	2.6	0.7–6.8
	ORLS2	42	21.7	1.9	1.4–2.6	42	21.1	2.0	1.5–2.7	†				†				†			
	ORLS1	108	80.6	1.4	1.1–1.6	102	75.8	1.4	1.1–1.7	†				†				†			

<sup>1</sup> Adjusted for sex, age in 5-year bands, time period in single calendar years in the ORLS1 and HES data sets; for district of residence in ORLS1, and for region of residence and deprivation score associated with patient's area of residence, in quintiles, in the HES data set.

† Data not shown for pneumococcal disease with non-significant results and five or fewer observed cases. For conditions used in reference cohort, see footnote to Table 2.