

Supplementary table 1 Missing data

Demographics	Demographic subgroup	Total (row %) N=69,507	FFN (per 1000/year)	Hazard ratio (95 CI)
Gender	M	38,778 (55.8)	45.6	1
	F	30,727 (44.2)	67.8	1.4 (1.3-1.5)
Age (years)	16-20	12,372 (17.8)	40.7	1
	21-25	11,231 (16.2)	65.6	1.8 (1.6-1.9)
	26-30	11,203 (16.1)	60.3	1.6 (1.5-1.8)
	31-35	8,455 (12.2)	53.2	1.4 (1.3-1.6)
	36-40	6,647 (9.6)	49.6	1.3 (1.1-1.5)
	41-45	5,907 (8.5)	55.5	1.5 (1.3-1.6)
	46-50	5,842 (8.4)	63.0	1.7 (1.5-1.9)
	51-55	4,601 (6.6)	67.4	1.8 (1.5-2.1)
Ethnicity	56-60	3,249 (4.7)	69.9	1.9 (1.6-2.2)
	White	9,375 (13.5)	68.9	1
	Black African	3,649 (5.3)	64.9	0.7 (0.6-0.9)
	Asian	1,778 (2.6)	53.6	0.8 (0.7-0.9)
	Black Caribbean	2,853 (4.1)	106.9	1.5 (1.3-1.8)
	Other/mixed	1,568 (2.3)	73.4	1.1 (0.9-1.2)
	Other	705 (1.0)	52.3	0.8 (0.6-0.9)
	Black-other	1,950 (2.8)	74.6	1.1 (0.9-1.3)
IMD score quintiles	Missing	47,629 (68.5)	46.1	0.7 (0.6-0.8)
	Least deprived	7,650 (11.0)	37.5	1
	2	7,298 (10.5)	40.9	1.1 (0.9-1.3)
	3	6,914 (10.0)	40.9	1.1 (0.9-1.4)
	4	7,701 (11.1)	53.9	1.4 (1.2-1.7)
	Most deprived	6,967 (10.0)	57.3	1.5 (1.3-1.8)
	Missing	32,977 (47.4)	63.3	1.7 (1.3-2.1)

Supplementary table 2 Mental healthcare indicators in Lambeth DataNet whole population sample

		Whole population	Antidepressant prescription (1993-2017)		IAPT contact (2008-2017)		Secondary mental healthcare contact (1995-2017)		No mental health services	
		N (%)	n (%)	OR adj (95%CI)*	n (%)	OR adj (95%CI)*	n (%)	OR adj (95%CI)*	n (%)	OR adj (95%CI)*
All		293,933 (100.0)	40,870 (13.9)		30,683 (10.4)		23,533 (8.0)		229,468 (78.1)	
Gender	Male	138,678 (47.2)	16,384 (11.8)	1	10,982 (7.9)	1	11,398 (8.2)	1	112,460 (81.1)	1
	Female	155,255 (52.8)	25,562 (16.5)	1.6 (1.5-1.7)	19,701 (12.7)	1.7 (1.6-1.8)	12,135 (7.8)	0.9 (0.9-1.0)	117,008 (75.4)	0.7 (0.7-0.7)
Age group (years)	16-30	115,294 (39.2)	10,632 (9.2)	1	10,975 (9.5)	1	6,601 (5.7)	1	95,497 (82.8)	1
	31-45	94,770 (41.3)	17,544 (14.5)	1.8 (1.7-1.8)	12,997 (10.7)	1.2 (1.2-1.3)	9,474 (7.8)	1.3 (1.2-1.4)	94,770 (78.1)	0.7 (0.7-0.7)
	46-60	39,201 (19.5)	13,770 (24.1)	2.6 (2.5-2.8)	6,711 (11.7)	1.1 (1.0-1.2)	7,458 (13.0)	1.6 (1.4-1.8)	39,201 (68.5)	0.6 (0.5-0.6)
Ethnicity	White British	102,738 (35.0)	18,008 (17.5)	1	13,520 (13.2)	1	9,103 (8.9)	1	75,974 (74.0)	1
	White-other	93,594 (31.8)	10,291 (11.0)	0.6 (0.6-0.6)	7,663 (8.2)	0.6 (0.6-0.6)	5,005 (5.4)	0.6 (0.6-0.6)	77,825 (83.2)	1.7 (1.6-1.8)
	Black African	28,779 (9.8)	3,155 (11.0)	0.4 (0.3-0.4)	2,003 (7.0)	0.4 (0.4-0.5)	2,317 (8.1)	0.6 (0.6-0.7)	23,576 (81.9)	2.2 (2.0-2.5)
	Asian	21,810 (7.4)	2,377 (10.9)	0.5 (0.5-0.6)	1,497 (6.9)	0.5 (0.4-0.6)	1,184 (5.4)	0.6 (0.5-0.7)	18,312 (84.0)	1.9 (1.8-2.1)
	Black Caribbean	16,127 (5.5)	3,435 (21.3)	0.8 (0.7-0.8)	2,452 (15.2)	0.9 (0.9-1.0)	2,621 (16.3)	1.3 (1.2-1.4)	10,488 (65.0)	1.0 (0.9-1.0)
	Mixed	13,837 (4.7)	2,218 (16.0)	0.8 (0.8-0.9)	1,791 (12.9)	0.9 (0.8-1.0)	1,606 (11.6)	1.3 (1.2-1.4)	10,178 (73.6)	1.0 (1.0-1.1)
	Other	9,884 (3.4)	1,190 (12.0)	0.6 (0.5-0.6)	859 (8.7)	0.6 (0.5-0.7)	654 (6.6)	0.7 (0.6-0.8)	8,079 (81.7)	1.7 (1.5-1.9)
	Black-other	7,173 (2.4)	1,272 (17.7)	0.7 (0.6-0.9)	898 (12.5)	0.8 (0.7-0.9)	1,043 (14.5)	1.3 (1.1-1.6)	5,036 (70.2)	1.1 (0.9-1.3)
Quintiles of area-level deprivation	1 Low dep	81,828 (20.4)	7,084 (12.5)	1	5,378 (9.5)	1	3,355 (5.9)	1	46,792 (80.5)	1
	2	80,999 (20.2)	7,805 (13.5)	1.1 (1.0-1.1)	5,869 (10.2)	1.1 (1.0-1.1)	4,094 (7.1)	1.2 (1.1-1.2)	46,508 (79.8)	0.9 (0.9-1.0)
	3	78,103 (19.5)	7,711 (13.8)	1.1 (1.0-1.2)	5,807 (10.4)	1.1 (1.1-1.2)	5,326 (7.7)	1.3 (1.2-1.4)	47,404 (78.1)	0.9 (0.8-0.9)
	4	81,822 (20.4)	8,931 (15.1)	1.2 (1.1-1.2)	6,357 (10.8)	1.2 (1.1-1.3)	5,252 (8.9)	1.4 (1.3-1.5)	44,344 (76.6)	0.8 (0.8-0.9)
	5 High dep	78,792 (19.6)	9,339 (16.7)	1.2 (1.1-1.3)	6,403 (11.4)	1.3 (1.2-1.4)	6,889 (10.5)	1.6 (1.4-1.7)	44,420 (75.3)	0.8 (0.7-0.8)
Number of fit notes	0	253,674 (86.3)	28,288 (11.2)	1	20,778 (8.2)	1	15,718 (6.2)	1	207,915 (82.0)	1
	1-3	25,609 (8.7)	6,500 (25.4)	2.4 (2.3-2.5)	4,857 (19.0)	2.6 (2.4-2.7)	3,524 (13.8)	2.0 (1.9 2.1)	16,065 (62.7)	0.4 (0.4-0.4)
	4+	14,650 (5.0)	7,158 (48.9)	5.7 (5.4-6.1)	5,048 (34.5)	5.6 (5.3-5.9)	4,291 (29.3)	4.3 (3.9-4.6)	5,488 (37.5)	0.2 (0.2-0.2)
Number of LTCs (excluding mental disorders)	0	206,758 (70.3)	22,891 (11.1)	1	18,747 (9.1)	1	12,142 (5.9)	1	169,493 (82.0)	1
	1	63,529 (21.6)	11,769 (18.5)	1.6 (1.5-1.6)	8,078 (12.7)	1.5 (1.4-1.5)	6,719 (10.6)	1.7 (1.6-1.7)	46,081 (72.5)	0.7 (0.6-0.7)
	2	16,529 (5.6)	4,595 (27.7)	2.2 (2.0-2.3)	2,581 (15.6)	1.8 (1.7-2.0)	2,888 (17.4)	2.6 (2.4-2.7)	10,290 (62.1)	0.5 (0.4-0.5)
	3	5,253 (1.8)	1,821 (34.7)	2.6 (2.3-2.8)	875 (16.7)	2.0 (1.8-2.3)	1,189 (22.6)	3.2 (2.9-3.5)	2,871 (54.7)	0.4 (0.3-0.4)
	4	1,822 (0.6)	870 (47.8)	4.0 (3.6-4.4)	402 (22.1)	2.8 (2.4-3.3)	595 (32.7)	5.0 (4.4-5.7)	733 (40.2)	0.2 (0.2-0.3)
Depression **	No	262,521 (89.3)	18,040 (6.9)	1	18,164 (6.9)	1	13,235 (5.0)	1	224,661 (85.6)	1
	Yes	31,412 (10.7)	23,906 (76.1)	38.7 (35.5-42.1)	12,519 (39.9)	8.0 (7.4-8.7)	10,298 (32.8)	8.4 (8.0-8.8)	4,807 (15.3)	0.0 (0.0-0.0)

LTCs: Long-term conditions. OR: Odds ratio. *adjusted for age, gender, ethnicity, deprivation and non-mental health long-term conditions ** Quality Outcomes Framework

