

Data supplement to Prady et al. Evaluation of ethnic disparities in detection of depression and anxiety in primary care during the maternal period: combined analysis of routine and cohort data. Br J Psychiatry doi: 10.1192/bjp.bp.114.158832

Table DS1. Comparison of analysed samples and cases excluded due to missing questionnaire

		1 year sample			3 year sample		
		Not analysed	Analysed	Chi ² (df) P	Not analysed	Analysed	Chi ² (df) P
		N=1,637	N=8,991		N=1,249	N=6,197	26.8(2)
Year of BiB enrolment	2007	314 (19.2)	1,980 (22.0)	47.1(3)	300 (24.0)	1,921 (31.0)	P<0.001
	2008	543 (33.2)	2,399 (26.7)	P<0.001	527 (42.2)	2,255 (36.4)	
	2009	485 (29.6)	2,490 (27.7)		422 (33.8)	2,021 (32.6)	
	2010	295 (18.0)	2,122 (23.6)				
<i>Demographic characteristics</i>							
Parity (hospital data)	Nulliparous	567 (34.6)	3,687 (41.0)	48.3(4)	412 (33.0)	2,405 (38.8)	37.1(4)
	1-2	731 (44.7)	3,662 (40.7)	P<0.001	572 (45.8)	2,595 (41.9)	P<0.001
	3-4	225 (13.7)	985 (11.0)		176 (14.1)	693 (11.2)	
	5+	50 (3.1)	156 (1.7)		39 (3.1)	117 (1.9)	
	missing	64 (3.9)	501 (5.6)		50 (4.0)	387 (6.2)	
Further pregnancies in study period	No	1,481 (90.5)	8,077 (89.8)		0.6(1)	765 (61.3)	
	Yes	156 (9.5)	914 (10.2)	P=0.43	484 (38.8)	2,696 (43.5)	P=0.002
<i>Socio-economic characteristics</i>							
IMD quintile compared to national rank (2010) for pregnancy address	Most deprived	1,214 (74.2)	5,973 (66.4)	44.9(4)	918 (73.5)	4,151 (67.0)	23.1(4)
	2	256 (15.6)	1,616 (18.0)	P<0.001	185 (14.8)	1,081 (17.4)	P<0.001
	3	113 (6.9)	1,003 (11.2)		96 (7.7)	692 (11.2)	
	4	32 (2.0)	255 (2.8)		31 (2.5)	174 (2.8)	
	Least deprived	22 (1.3)	144 (1.6)		19 (1.5)	99 (1.6)	
<i>Birth outcomes</i>							
Gestational age at birth (completed weeks)	≥37	1,492 (91.1)	8,305 (92.4)	4.6(2)	1,144 (91.6)	5,726 (92.4)	2.2(2)
	<37	120 (7.3)	536 (6.0)	P=0.10	89 (7.1)	378 (6.1)	P=0.34
	missing	25 (1.5)	150 (1.7)		16 (1.3)	93 (1.5)	
<i>GP visits and practice size</i>							
Proxy for no. of pre-birth visits	mean (SD)	13.5 (8.0)	14.6 (8.4)	t=-5.2, P<0.001 [§]	13.2 (7.5)	14.4 (8.4)	t=-5.2 P<0.001 [§]
Proxy for no. of visits*	mean (SD)	24.4 (13.5)	25.2 (13.7)	t=-2.2, P=0.03 [§]	42.6 (25.8)	43.2 (24.5)	t=-0.7 P=0.46 [§]
<i>Identified CMD</i>							
Pre-birth	No	1,508 (92.1)	8,138 (90.5)	4.3(1)	1146 (91.8)	5636 (91.0)	0.83(1)
	Yes	129 (7.9)	853 (9.5)	P=0.04	103 (8.3)	561 (9.1)	P=0.36
In 12 months postnatally	No	1444 (88.2)	7,818 (87.0)	2.0(1)	1090 (87.3)	5399 (87.1)	0.02(1)
	Yes	193 (11.8)	1,713 (13.1)	P=0.16	159 (12.7)	798 (12.9)	P=0.89
In 13-24 months postnatally	-	-	-	-	1095 (87.7)	5405 (87.2)	0.19(1)
In 25-36 months postnatally	-	-	-	-	154 (12.3)	792 (12.8)	P=0.66
In 25-36 months postnatally	-	-	-	-	1064 (85.2)	5327 (86.0)	0.51(1)
In 25-36 months postnatally	-	-	-	-	185 (14.8)	870 (14.0)	P=0.48

All numbers are N (col %) except where indicated; *between 6 months prior to conception and 1 year (3 years) post-delivery; IMD Index of Multiple Deprivation; df degrees of freedom; SD standard deviation; [§]t-test.

Table DS2 Description of sample included for 1 year follow-up

Ethnicity (language of enrolment)		White British (English)	Pakistani (English)	Other (English)	Any ethnicity (Not English)	Total
		N=3546	N=2602	N=1209	N=1634	N=8991
<i>GHQ-28</i>						
GHQ-28 completeness	Missing by design	481 (13.6)	335 (12.9)	137 (11.3)	214 (13.1)	1167 (13.0)
	Accepted questionnaire all GHQ missing	23 (0.7)	51 (2.0)	42 (3.5)	176 (10.8)	292 (3.3)
	Missing 5-27 questions	15 (0.4)	10 (0.4)	7 (0.6)	6 (0.4)	38 (0.4)
	Missing ≤4 questions	92 (2.6)	122 (4.7)	48 (4.0)	38 (2.3)	300 (3.3)
	Complete GHQ	2935 (82.8)	2084 (80.1)	975 (80.7)	1200 (73.4)	7194 (80.0)
Score (out of 28)	<15	2850 (94.2)	1940 (87.9)	947 (92.6)	1182 (95.5)	6919 (92.3)
	≥15	177 (5.9)	266 (12.1)	76 (7.4)	56 (4.5)	575 (7.7)
Score (out of 28)	<9	2375 (78.5)	1443 (65.4)	748 (73.1)	950 (76.7)	5516 (73.6)
	≥9	652 (21.5)	763 (34.6)	275 (26.9)	288 (23.3)	1978 (26.4)
	missing	519 (14.6)	396 (15.2)	186 (15.4)	396 (24.2)	1497 (16.7)
<i>Enrolment characteristics</i>						
Language of recruitment questionnaire*	English	3537 (100)	2583 (100)	1204 (100)	-	7324 (81.8)
	Mirpuri/Punjabi	-	-	-	458 (28.0)	458 (5.1)
	Urdu	-	-	-	1169 (71.5)	1169 (13.1)
	Other language	-	-	-	7 (0.4)	7 (0.1)
	missing	9 (0.3)	19 (0.7)	5 (0.4)	0	33 (0.4)
<i>Demographic characteristics</i>						
Age	mean (SD)	26.7 (6.1)	27.6 (5.1)	28.0 (5.5)	27.8 (5.4)	27.3 (5.6)
Parity	Nulliparous	1754 (50.6)	937 (37.2)	597 (50.2)	517 (32.3)	3805 (42.4)
	1	1024 (29.5)	613 (24.3)	329 (27.7)	401 (25.1)	2367 (27.0)
	2-3	602 (17.4)	794 (31.5)	237 (19.9)	518 (32.4)	2151 (24.5)
	4+	87 (2.5)	176 (7.0)	27 (2.3)	163 (10.2)	453 (5.2)
	missing	79 (2.2)	82 (3.2)	19 (1.6)	35 (2.1)	215 (2.4)
Marital / cohabitation status	Married	1100 (31.1)	2370 (91.2)	860 (71.1)	1563 (96.0)	5893 (65.7)
	Cohabiting	1401 (39.6)	15 (0.6)	163 (13.5)	4 (0.3)	1583 (17.6)
	Not living with a partner	1037 (29.3)	213 (8.2)	186 (15.4)	62 (3.8)	1498 (16.7)
	missing	8 (0.2)	4 (0.2)	0	5 (0.3)	17 (0.2)
Ethnic group*	Pakistani	-	2602 (100)	-	1533 (93.8)	4135 (46.0)
	White British	3546 (100)	-	-	2 (0.1)	3548 (39.5)
	Indian	-	-	290 (24.0)	61 (3.7)	351 (3.9)
	White Non-British	-	-	220 (18.2)	4 (0.2)	224 (2.5)
	Other	-	-	211 (17.5)	10 (0.6)	221 (2.5)
	Bangladeshi	-	-	185 (15.3)	22 (1.4)	207 (2.3)
	Black	-	-	159 (13.2)	0	159 (1.8)
	Mixed	-	-	144 (11.9)	2 (0.1)	146 (1.6)
Country of birth and age of migration	Born in UK	3486 (98.5)	1734 (67.4)	476 (40.1)	32 (2.0)	5728 (64.3)
	Migrated before age 16	40 (1.1)	394 (15.3)	134 (11.3)	73 (4.6)	641 (7.2)
	Migrated 16 or older	14 (0.4)	433 (17.2)	578 (48.7)	1501 (93.5)	2536 (28.5)
	missing	6 (0.2)	31 (1.2)	21 (1.7)	28 (1.7)	89 (1.0)
Further pregnancies in the 12 month postnatal period	No	3299 (93.0)	2277 (87.5)	1126 (93.1)	1375 (84.2)	8077 (89.8)
	Yes	247 (7.0)	325 (12.5)	83 (6.9)	259 (15.9)	914 (10.2)
<i>Socio-economic characteristics</i>						
Mother's education**	≥A-level equivalent	644 (18.2)	711 (27.4)	484 (40.3)	361 (22.2)	2200 (24.5)
	A-level equivalent	614 (17.3)	498 (19.2)	172 (14.3)	36 (2.2)	1320 (14.7)
	5 GCSE equivalent	1229 (34.7)	832 (32.0)	256 (21.3)	483 (29.7)	2800 (31.1)
	< 5 GCSE equivalent	699 (19.7)	406 (15.6)	135 (11.2)	706 (43.4)	1946 (21.7)
	Other education qualification	319 (9.0)	124 (4.8)	138 (11.1)	17 (1.0)	598 (6.7)
	Unknown qualification	37 (1.0)	27 (1.0)	20 (1.4)	24 (1.5)	105 (1.2)
	missing	4 (0.1)	4 (0.2)	7 (0.6)	7 (0.4)	22 (0.2)
	Mother's employment status	Currently employed	2321 (65.5)	922 (35.5)	713 (59.1)	81 (5.0)
Previously employed		933 (26.3)	1010 (38.9)	307 (25.5)	258 (15.8)	2508 (27.9)
Never employed		290 (8.2)	665 (25.6)	186 (15.4)	1292 (79.2)	2433 (27.1)
missing		2 (0.1)	5 (0.2)	3 (0.3)	3 (0.2)	13 (0.1)
12-item Family Resource Survey no. of items lacked	0	1560 (44.8)	1189 (47.1)	587 (50.0)	625 (40.7)	3961 (45.4)
	1-2	874 (25.1)	789 (31.3)	292 (24.9)	427 (27.8)	2382 (27.3)
	3-4	535 (15.4)	325 (12.9)	156 (13.3)	257 (16.7)	1273 (14.6)
	5+	513 (14.7)	221 (8.8)	140 (11.9)	227 (14.8)	1101 (12.6)
	missing	64 (1.8)	78 (3.0)	34 (2.8)	98 (6.0)	274 (3.1)
Index of Multiple deprivation quintile compared to national rank (2010) for pregnancy address	Most deprived	1806 (50.9)	1976 (75.9)	810 (67.0)	1381 (84.5)	5975 (66.4)
	2	766 (21.6)	419 (16.1)	246 (20.4)	185 (11.3)	1616 (18.0)
	3	637 (18.0)	182 (7.0)	122 (10.1)	62 (3.8)	1003 (11.2)
	4	217 (6.1)	15 (0.6)	18 (1.5)	5 (0.3)	255 (2.8)
	Least deprived	120 (3.4)	10 (0.4)	13 (1.1)	1 (0.1)	144 (1.6)
In receipt of means tested	No	2227 (63.0)	1366 (52.6)	851 (70.5)	927 (56.9)	5371 (59.9)

Ethnicity (language of enrolment)		White British (English)	Pakistani (English)	Other (English)	Any ethnicity (Not English)	Total
benefits	Yes	1306 (37.0)	1230 (47.4)	356 (29.5)	701 (43.1)	3593 (40.1)
	missing	13 (0.4)	6 (0.2)	2 (0.2)	6 (0.4)	27 (0.3)
<i>Health behaviours</i>						
Smoking during pregnancy	No	2329 (65.7)	2461 (94.8)	1067 (88.4)	1621 (99.4)	7478 (83.1)
	Yes	1214 (34.3)	134 (5.2)	140 (11.6)	10 (0.6)	1498 (16.7)
	missing	3 (0.1)	7 (0.3)	2 (0.2)	3 (0.2)	15 (0.2)
<i>GP visits</i>						
Proxy for the no. of visits***	mean (SD)	24.3 (13.0)	27.5 (15.1)	22.6 (12.0)	25.4 (13.6)	25.2 (13.7)

All numbers are N (%) except where indicated; proportions presented in categories are the proportion of observed (non-missing) data, missing is the proportion of data missing overall; GHQ-28 General Health Questionnaire; *variables illustrative, not used in analysis; ** GCSE's are qualifications obtained at the end of compulsory education at age 16, A-levels are qualifications achieved after successful completion of a further 2 years-full time school after compulsory education ends at age 16; *** between 6 months prior to conception and 1 year post-delivery..

Table DS3 Description of sample included for 3 year follow-up

Ethnicity (language of enrolment)		White British (English)	Pakistani (English)	Other (English)	Any ethnicity (Not English)	Total
		N=2399	N=1847	N=762	N=1189	N=6197
<i>GHQ-28</i>						
GHQ-28 completeness	Missing by design	457 (19.1)	327 (17.7)	133 (17.5)	211 (17.8)	1128 (18.2)
	Accepted questionnaire all GHQ missing	8 (0.3)	19 (1.0)	15 (2.0)	112 (9.4)	154 (2.5)
	Missing 5-27 questions	12 (0.5)	8 (0.4)	5 (0.7)	5 (0.4)	30 (0.5)
	Missing ≤4 questions	83 (3.5)	115 (6.2)	45 (5.9)	38 (3.2)	281 (4.5)
	Complete GHQ	1839 (76.7)	1378 (74.6)	564 (74.0)	823 (69.2)	4604 (74.3)
Score (out of 28)	<15	1811 (94.2)	1316 (88.1)	558 (91.6)	820 (95.2)	4505 (92.2)
	≥15	111 (5.8)	177 (11.9)	51 (8.4)	41 (4.8)	380 (7.8)
Score (out of 28)	<9	1511 (78.6)	965 (64.6)	440 (72.3)	657 (76.3)	3573 (73.1)
	≥9	411 (21.4)	528 (35.4)	169 (27.8)	204 (23.7)	1312 (26.9)
	missing	477 (19.9)	354 (19.2)	153 (20.1)	328 (27.6)	1312 (21.2)
<i>Enrolment characteristics</i>						
Language of recruitment questionnaire*	English	2390 (100)	1829 (100)	757 (100)	-	4976 (80.7)
	Mirpuri/Punjabi	-	-	-	406 (34.2)	406 (6.6)
	Urdu	-	-	-	776 (65.3)	776 (12.6)
	Other language	-	-	-	7 (0.6)	7 (0.1)
	missing	9 (0.4)	18 (1.0)	5 (0.7)	0	32 (0.5)
<i>Demographic characteristics</i>						
Age	mean (SD)	26.7 (6.2)	27.4 (5.1)	27.9 (5.5)	27.7 (5.4)	27.2 (5.7)
Parity	Nulliparous	1128 (48.6)	627 (35.5)	354 (47.6)	356 (30.8)	2465 (41.2)
	1	772 (31.1)	454 (25.7)	197 (26.5)	315 (27.3)	1688 (28.2)
	2-3	410 (17.7)	568 (32.2)	167 (22.5)	361 (31.3)	1506 (25.2)
	4+	61 (2.6)	117 (6.6)	25 (3.4)	123 (10.7)	326 (5.5)
	missing	78 (3.3)	81 (4.4)	19 (2.5)	34 (2.9)	212 (3.4)
Marital / cohabitation status	Married	773 (32.3)	1694 (91.9)	534 (70.1)	1139 (96.1)	4140 (67.0)
	Cohabiting	948 (39.7)	9 (0.5)	105 (13.8)	4 (0.3)	1066 (17.3)
	Not living with a partner	670 (28.0)	140 (7.6)	123 (16.1)	42 (3.5)	975 (15.8)
	missing	8 (0.3)	4 (0.2)	0	4 (0.3)	16 (0.3)
	Ethnic group*	Pakistani	-	1847 (100)	-	1108 (93.2)
	White British	2399 (100)	-	-	2 (0.2)	2401 (38.7)
	Indian	-	-	185 (24.3)	46 (3.9)	231 (3.7)
	White Non-British	-	-	126 (16.5)	4 (0.3)	130 (2.1)
	Other	-	-	131 (17.2)	8 (0.7)	139 (2.2)
	Bangladeshi	-	-	127 (16.7)	20 (1.7)	147 (2.4)
	Black	-	-	101 (13.3)	0	101 (1.6)
	Mixed	-	-	92 (12.1)	1 (0.1)	93 (1.5)
Country of birth and age of migration	Born in UK	2361 (98.6)	1244 (68.5)	304 (41.0)	21 (1.8)	3930 (64.3)
	Migrated before age 16	23 (1.0)	279 (15.4)	94 (12.7)	38 (3.3)	434 (7.1)
	Migrated 16 or older	10 (0.4)	294 (16.2)	344 (46.4)	1102 (94.9)	1750 (28.6)
	missing	5 (0.2)	30 (1.6)	20 (2.6)	28 (2.4)	83 (1.3)
Further pregnancies in the 36 month postnatal period	No	1525 (63.6)	959 (51.9)	462 (60.6)	555 (46.7)	3501 (56.5)
	Yes	874 (36.4)	888 (48.1)	300 (39.4)	634 (53.3)	2696 (43.5)
<i>Socio-economic characteristics</i>						
Mother's education**	≥A-level equivalent	443 (18.5)	479 (26.0)	277 (36.7)	260 (22.0)	1459 (23.6)
	A-level equivalent	361 (15.1)	327 (17.7)	105 (13.9)	33 (2.8)	826 (13.4)
	5 GCSE equivalent	841 (35.1)	611 (33.2)	167 (22.1)	353 (29.9)	1972 (31.9)

Ethnicity (language of enrolment)		White British (English)	Pakistani (English)	Other (English)	Any ethnicity (Not English)	Total
	< 5 GCSE equivalent	495 (20.7)	317 (17.2)	99 (13.1)	503 (42.6)	1414 (22.9)
	Other education qualification	229 (9.6)	91 (4.9)	96 (12.7)	13 (1.1)	429 (7.0)
	Unknown qualification	26 (1.1)	18 (1.0)	11 (1.5)	20 (1.7)	75 (1.2)
	missing	4 (0.2)	4 (0.2)	7 (0.9)	7 (0.6)	22 (0.4)
Mother's employment status	Currently employed	1588 (66.3)	642 (34.8)	430 (56.7)	60 (5.1)	2720 (44.0)
	Previously employed	637 (26.6)	755 (41.0)	211 (27.8)	215 (18.1)	1818 (29.4)
	Never employed	172 (7.2)	446 (24.2)	118 (15.6)	911 (76.8)	1647 (26.6)
	missing	2 (0.1)	4 (0.2)	3 (0.4)	3 (0.3)	12 (0.2)
12-item Family Resource Survey no. of items lacked	0	1074 (45.9)	814 (46.0)	363 (49.7)	450 (41.2)	2701 (45.5)
	1-2	584 (25.0)	584 (33.0)	170 (23.3)	285 (26.1)	1623 (27.4)
	3-4	343 (14.7)	221 (12.5)	100 (13.7)	192 (17.6)	856 (14.4)
	5+	339 (14.5)	152 (8.6)	97 (13.3)	166 (15.2)	754 (12.7)
	missing	59 (2.5)	76 (4.1)	32 (4.2)	96 (8.1)	263 (4.2)
Index of Multiple deprivation quintile compared to national rank (2010) for pregnancy address	Most deprived	1208 (50.4)	1422 (77.0)	518 (68.0)	1003 (84.4)	4151 (67.0)
	2	505 (21.1)	287 (15.5)	155 (20.3)	134 (11.3)	1081 (17.4)
	3	451 (18.8)	122 (6.6)	72 (9.5)	47 (4.0)	692 (11.2)
	4	150 (6.3)	9 (0.5)	11 (1.4)	4 (0.3)	174 (2.8)
	Least deprived	85 (3.5)	7 (0.4)	6 (0.8)	1 (0.1)	99 (1.6)
In receipt of means tested benefits	No	1515 (63.5)	966 (52.5)	522 (68.7)	685 (57.9)	3688 (59.8)
	Yes	872 (36.5)	875 (47.5)	238 (31.3)	498 (42.1)	2483 (40.2)
	missing	12 (0.5)	6 (0.3)	2 (0.3)	5 (0.5)	26 (0.4)
<i>Health behaviours</i>						
Smoking during pregnancy	No	1584 (66.1)	1751 (95.1)	671 (88.3)	1179 (99.3)	5185 (83.9)
	Yes	812 (33.9)	90 (4.9)	89 (11.7)	8 (0.7)	999 (16.2)
	missing	3 (0.1)	6 (0.3)	2 (0.3)	2 (0.2)	13 (0.2)
<i>GP data</i>						
Proxy for the no. of visits***	mean (SD)	40.8 (23.1)	47.3 (26.1)	38.9 (22.2)	44.5 (25.0)	43.2 (24.5)

All numbers are N (%) except where indicated; proportions presented in categories are the proportion of observed (non-missing) data, missing is the proportion of data missing overall; df degrees of freedom; SD standard deviation; GHQ-28 General Health Questionnaire; *variables illustrative, not used in analysis; **GCSE's are qualifications obtained at the end of compulsory education at age 16, A-levels are qualifications achieved after successful completion of a further 2 years-full time school after compulsory education ends at age 16; *** between 6 months prior to conception and 3 years post-delivery.

Table DS4 Incidence rate ratios of CMD

Period	Sub-group	White British vs. Pakistani IRR (95% CI)	White British vs. Other IRR (95% CI)	White British vs. Not English IRR (95% CI)
<i>Sample with 12 months of follow up</i>				
Pregnancy		1.44 (1.07, 1.96)	2.15 (1.36, 3.55)	2.08 (1.40, 3.19)
Birth to 12 months postpartum		1.95 (1.64, 2.32)	2.33 (1.83, 3.01)	3.33 (2.60, 4.31)
	No further pregnancy in 12 months postpartum	2.02 (1.67, 2.46)	2.17 (1.69, 2.85)	2.93 (2.25, 3.88)
	Further pregnancy in 12 months postpartum	2.33 (1.54, 3.55)	4.31 (1.87, 12.2)	9.45 (4.66, 21.6)
<i>Sample with 36 months of follow up</i>				
13 to 24 months postpartum		1.66 (1.27, 2.19)	1.60 (1.19, 2.35)	2.49 (1.75, 3.62)
25 to 36 months postpartum		1.61 (1.22, 2.13)	1.85 (1.26, 2.81)	1.87 (1.36, 2.62)
Birth to 36 months postpartum		1.82 (1.58, 2.09)	2.02 (1.66, 2.49)	2.60 (2.17, 3.13)
	No further pregnancy in 36 months postpartum	1.70 (1.40, 2.07)	1.96 (1.50, 2.58)	1.98 (1.55, 2.56)
	Further pregnancy in 36 months postpartum	2.11 (1.72, 2.59)	2.19 (1.61, 3.01)	3.69 (2.82, 4.89)

Women with previous period prevalence excluded; IRR incidence rate ratio; CI confidence interval

Table DS5 Factors associated with CMD and risk of undetected CMD pre-birth; White British, English

N=3,546		Lower risk (GHQ <15, no CMD)	Potentially missed CMD (GHQ ≥15, no CMD)	Identified CMD	imputed	Potentially missed CMD vs. Lower risk ^a				Identified CMD vs. Lower risk ^a				Potentially missed CMD vs. Identified CMD ^b			
		N=2491	N=112	N=424	N=519	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^d	95% CI
		n (%)	n (%)	n (%)	n (%)												
<i>Demographic characteristics</i>																	
Age	21-34	1870 (75.1)	77 (68.8)	339 (80.0)	378 (72.8)	1	-	-	-	1	-	-	-	1	-	1	-
	<20	317 (12.7)	24 (21.4)	34 (8.0)	72 (13.9)	1.79	1.10, 2.89	1.46	0.80, 2.67	0.65	0.44, 0.94	0.55	0.33, 0.93	2.77	1.56, 4.93	2.43	1.18, 5.02
	35+	304 (12.2)	11 (9.8)	51 (12.0)	69 (13.3)	0.93	0.50, 1.76	1.18	0.59, 2.33	0.95	0.70, 1.30	1.11	0.76, 1.63	0.98	0.49, 1.97	1.13	0.55, 2.33
Parity	Nulliparous	1284 (51.6)	60 (53.6)	170 (40.1)	240 (46.2)	1	-	1	-	1	-	1	-	1	-	1	-
	1	727 (29.2)	27 (24.1)	136 (32.1)	134 (25.8)	0.77	0.47, 1.26	0.82	0.46, 1.46	1.39	1.09, 1.76	1.11	0.80, 1.53	0.56	0.32, 0.95	0.76	0.42, 1.37
	2-3	411 (16.5)	19 (17.0)	104 (24.5)	68 (13.1)	0.96	0.57, 1.64	0.94	0.49, 1.82	1.90	1.47, 2.47	1.29	0.89, 1.87	0.51	0.28, 0.91	0.69	0.36, 1.32
	4+	56 (2.3)	6 (5.4)	13 (3.1)	12 (2.3)	2.25	0.90, 5.61	1.79	0.64, 4.97	1.67	0.89, 3.11	0.93	0.45, 1.92	1.35	0.49, 3.73	1.60	0.54, 4.74
	imputed	13 (0.5)	0	1 (0.2)	65 (12.5)												
Marital / cohabitation status	Married	810 (32.5)	15 (13.4)	112 (26.4)	163 (31.4)	1	-	1	-	1	-	1	-	1	-	1	-
	Cohabiting	985 (39.5)	54 (48.2)	163 (38.4)	199 (38.3)	2.94	1.64, 5.26	2.49	1.34, 4.63	1.16	0.90, 1.50	0.89	0.64, 1.24	2.53	1.38, 4.67	2.57	1.36, 4.84
	Neither	693 (27.8)	42 (37.5)	149 (35.1)	153 (29.5)	3.23	1.76, 5.91	2.34	1.17, 4.69	1.52	1.17, 1.98	1.09	0.75, 1.59	2.12	1.12, 4.01	1.81	0.90, 3.65
	imputed	3 (0.1)	1 (0.9)	0	4 (0.8)												
<i>Socio-economic characteristics</i>																	
Mother's education	≥A-level equiv.	961 (38.6)	31 (27.7)	123 (29.0)	143 (27.6)	1	-	1	-	1	-	1	-	1	-	-	-
	<A-level equiv.	1529 (61.4)	81 (72.3)	301 (70.1)	373 (71.9)	1.61	1.05, 2.46	0.99	0.59, 1.66	1.54	1.23, 1.91	1.13	0.86, 1.49	1.05	0.67, 1.64	-	-
	imputed	1 (0.04)	0	0	3 (0.6)												
Mother's employment status	Currently	1691 (67.9)	65 (58.0)	229 (54.0)	336 (64.7)	1	-	1	-	1	-	1	-	1	-	-	-
	Previously	590 (23.7)	31 (27.7)	152 (35.9)	160 (30.8)	1.37	0.88, 2.13	0.74	0.44, 1.26	1.84	1.49, 2.29	1.23	0.91, 1.67	0.74	0.46, 1.21	-	-
	Never	209 (8.4)	16 (14.3)	43 (10.1)	22 (4.2)	1.97	1.12, 3.48	0.94	0.48, 1.85	1.48	1.03, 2.16	1.30	0.81, 2.09	1.33	0.70, 2.53	-	-
	imputed	1 (0.04)	0	0	1 (0.2)												
Family Resource Survey no. of items lacked	0	1142 (45.9)	32 (28.6)	128 (30.2)	258 (49.7)	1	-	1	-	1	-	1	-	1	-	-	-
	1-2	628 (25.1)	27 (24.1)	110 (25.9)	109 (21.0)	1.61	0.98, 2.64	1.35	0.80, 2.27	1.58	1.20, 2.07	1.28	0.92, 1.77	1.02	0.60, 1.74	-	-
	3-4	368 (14.8)	23 (20.5)	85 (20.1)	59 (11.4)	2.26	1.28, 3.98	1.89	1.02, 3.48	1.96	1.46, 2.63	1.48	1.02, 2.15	1.15	0.62, 2.14	-	-
	5+	324 (13.0)	30 (26.8)	96 (22.6)	63 (12.1)	3.35	1.95, 5.78	2.62	1.39, 4.92	2.56	1.93, 3.39	1.57	1.09, 2.27	1.31	0.72, 2.38	-	-
	imputed	29 (1.2)	0	5 (1.2)	30 (5.8)												
IMD quintile	2-5	1213 (48.7)	49 (43.8)	198 (46.7)	277 (53.4)	1	-	-	-	1	-	-	-	1	-	-	-
	1most deprived	1278 (51.3)	63 (56.3)	226 (53.3)	242 (46.6)	1.23	0.84, 1.80	-	-	1.09	0.90, 1.33	-	-	1.12	0.75, 1.68	-	-
Means tested benefits	No	1619 (65.0)	59 (52.7)	210 (49.5)	339 (65.3)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	863 (34.6)	53 (47.3)	213 (50.2)	177 (34.1)	1.69	1.13, 2.52	1.20	0.70, 2.08	1.85	1.51, 2.27	1.07	0.78, 1.46	0.91	0.58, 1.44	-	-
	imputed	9 (0.4)	0	1 (0.2)	3 (0.6)												
<i>Health behaviours</i>																	
Smoking in pregnancy	No	1649 (66.2)	66 (58.9)	240 (56.6)	374 (72.1)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	840 (33.7)	46 (41.1)	184 (43.4)	144 (27.8)	1.35	0.89, 2.05	0.87	0.56, 1.36	1.49	1.21, 1.82	1.24	0.96, 1.60	0.90	0.57, 1.43	-	-
	imputed	2 (0.1)	0	0	1 (0.2)												
<i>Primary care data</i>																	
No. of GP visits prior to birth*	Middle tertile	752 (30.2)	26 (23.2)	96 (22.6)	133 (25.6)	1	-	1	-	1	-	1	-	1	-	-	-
	Lower tertile	1072 (43.0)	29 (25.9)	55 (13.0)	221 (42.6)	0.74	0.44, 1.25	0.73	0.43, 1.24	0.65	0.32, 0.64	0.54	0.37, 0.78	1.63	0.87, 3.04	-	-
	Highest tertile	667 (26.8)	57 (50.9)	273 (64.4)	165 (31.8)	2.27	1.40, 3.69	2.14	1.30, 3.51	3.05	2.39, 3.89	2.73	2.08, 3.58	0.75	0.44, 1.27	-	-
Pre-birth screening	No	2467 (99.0)	109 (97.3)	304 (71.7)	496 (95.6)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	24 (1.0)	3 (2.7)	120 (28.3)	23 (4.4)	2.60	0.76, 8.94	1.83	0.53, 6.39	38.6	24.8, 60.0	28.2	17.7, 45.0	0.07	0.02, 0.22	0.06	0.02, 0.21

^aMultinomial logistic regression; ^bLogistic regression; uRRR unadjusted relative risk ratio; aRRR relative risk ratio adjusted for other covariates in the model that showed a bivariate association of p<0.1; IMD Index of Multiple Deprivation. *tertiles calculated within ethno-language groups; bolded estimates are statistically significant at p<0.05; selection of risk factors for multivariate model based on p<0.10; ^cmultivariate model includes age, parity, marital/cohabitation status, education, employment status, Family Resource Survey, means tested benefits, smoking, GP visits, pre-birth screening; ^dmultivariate model includes age, parity, marital/cohabitation status, prebirth screening; country of birth and age of migration not included due to low prevalence.

Table DS6 Factors associated with CMD and risk of undetected CMD pre-birth; Pakistani, English

N=2602		Lower risk (GHQ <15, no CMD)	Potentially missed CMD (GHQ ≥15, no CMD)	Identified CMD	imputed	Potentially missed CMD vs. Lower risk ^a				Identified CMD vs. Lower risk ^a				Potentially missed CMD vs. Identified CMD ^b			
		N=1801	N=209	N=196	N=396	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^d	95% CI
		n (%)	n (%)	n (%)	n (%)												
<i>Demographic characteristics</i>																	
Age	21-34	1527 (84.8)	179 (85.7)	170 (86.7)	337 (85.1)	1	-			1	-			1	-	-	-
	<20	79 (4.4)	7 (3.4)	2 (1.0)	15 (3.8)	0.72	0.34, 1.54	-	-	0.26	0.06, 1.09	-	-	2.80	0.56, 13.9	-	-
	35+	195 (10.8)	23 (11.0)	24 (12.4)	44 (11.1)	1.04	0.66, 1.66	-	-	1.20	0.77, 1.87	-	-	0.87	0.48, 1.57	-	-
Parity	Nulliparous	676 (37.5)	74 (35.4)	74 (37.8)	113 (28.5)	1	-			1	-			1	-	-	-
	1	437 (24.3)	50 (23.9)	40 (20.4)	86 (21.7)	1.06	0.72, 1.56	-	-	0.84	0.57, 1.24	-	-	1.26	0.74, 2.14	-	-
	2-3	560 (31.1)	66 (31.6)	65 (33.2)	103 (26.0)	1.07	0.77, 1.49	-	-	1.12	0.79, 1.59	-	-	0.96	0.61, 1.52	-	-
	4+	115 (6.4)	17 (8.1)	15 (7.7)	29 (7.3)	1.28	0.74, 2.24	-	-	1.19	0.67, 2.11	-	-	1.07	0.53, 2.19	-	-
	imputed	13 (0.7)	2 (1.0)	2 (1.0)	65 (16.4)												
Marital / cohabitation status	Married/Cohab	1161 (92.3)	180 (86.1)	170 (86.7)	374 (94.4)	1	-	1	-	1	-	1	-	1	-	-	-
	Neither	137 (7.6)	29 (13.9)	26 (13.3)	21 (5.3)	1.86	1.20, 2.89	1.65	1.05, 2.60	1.77	1.15, 2.73	1.78	1.09, 2.90	1.05	0.60, 1.84	-	-
	imputed	3 (0.2)	0	0	1 (0.3)												
Country of birth and age of migration	Born in UK	1226 (68.1)	145 (69.4)	136 (69.4)	227 (57.3)	1	-			1	-			1	-	-	-
	Migrated < 16	256 (14.2)	23 (11.0)	36 (18.4)	79 (20.0)	0.77	0.49, 1.20	-	-	1.32	0.91, 1.92	-	-	0.58	0.34, 1.01	-	-
	Migrated 16+	305 (16.9)	38 (18.2)	23 (11.7)	77 (19.4)	1.08	0.74, 1.57	-	-	0.69	0.43, 1.12	-	-	1.56	0.86, 2.82	-	-
	imputed	14 (0.8)	3 (1.4)	1 (0.5)	13 (3.3)												
<i>Socio-economic characteristics</i>																	
Mother's education	≥A-level equiv.	878 (49.0)	104 (49.8)	98 (50.0)	129 (32.6)	1	-	-	-	1	-	-	-	1	-	-	-
	<A-level equiv.	920 (51.1)	105 (50.2)	98 (50.0)	266 (67.2)	0.95	0.70, 1.29	-	-	1.00	0.75, 1.34	-	-	0.95	0.62, 1.44	-	-
	imputed	3 (0.2)	0	0	1 (0.3)												
Mother's employment status	Currently	668 (37.1)	77 (36.8)	62 (31.6)	115 (29.0)	1	-	1	-	1	-	1	-	1	-	-	-
	Previously	643 (35.7)	83 (39.7)	94 (48.0)	190 (48.0)	1.15	0.82, 1.60	1.00	0.72, 1.42	1.51	1.09, 2.10	1.48	1.03, 2.13	0.76	0.50, 1.15	-	-
	Never	489 (27.2)	49 (23.4)	40 (20.4)	87 (22.0)	0.86	0.60, 1.25	0.77	0.53, 1.13	0.91	0.60, 1.37	0.92	0.59, 1.43	0.95	0.56, 1.61	-	-
	imputed	1 (0.1)	0	0	4 (1.0)												
Family Resource Survey no. of items lacked	0	895 (49.7)	65 (31.1)	78 (39.8)	151 (38.1)	1	-	1	-	1	-	1	-	1	-	1	-
	1-2	533 (29.6)	66 (31.6)	67 (34.2)	123 (31.1)	1.63	1.17, 2.27	1.61	1.15, 2.25	1.48	1.05, 2.08	1.41	0.97, 2.03	1.10	0.70, 1.72	1.10	0.69, 1.74
	3-4	217 (12.1)	39 (18.7)	26 (13.3)	43 (10.9)	2.32	1.49, 3.61	2.15	1.38, 3.37	1.33	0.81, 2.18	1.12	0.65, 1.92	1.74	0.99, 3.08	1.83	1.01, 3.32
	5+	130 (7.2)	35 (16.8)	23 (11.7)	33 (8.3)	3.49	2.17, 5.61	3.29	2.03, 5.32	1.99	1.23, 3.24	1.78	1.05, 3.03	1.75	0.94, 3.27	1.73	0.90, 3.30
	imputed	26 (1.4)	4 (1.9)	2 (1.0)	46 (11.6)												
IMD quintile	2-5	463 (25.7)	44 (21.1)	40 (20.4)	81 (20.5)	1	-	-	-	1	-	-	-	1	-	-	-
	1most deprived	1338 (74.3)	165 (79.0)	156 (79.6)	315 (79.6)	1.27	0.89, 1.81	-	-	1.33	0.94, 1.88	-	-	0.95	0.59, 1.54	-	-
Means tested benefits	No	967 (53.7)	102 (48.8)	92 (46.9)	205 (51.8)	1	-	-	-	1	-	-	-	1	-	-	-
	Yes	833 (46.3)	106 (50.7)	104 (53.1)	187 (47.2)	1.21	0.88, 1.68	-	-	1.28	0.95, 1.72	-	-	0.95	0.63, 1.43	-	-
	imputed	1 (0.1)	1 (0.5)	0	4 (1.0)												
<i>Health behaviours</i>																	
Smoking in pregnancy	No	1709 (94.9)	188 (90.0)	184 (93.9)	380 (96.0)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	91 (5.1)	21 (10.1)	12 (6.1)	10 (2.5)	1.95	1.16, 3.28	1.56	0.93, 2.63	1.30	0.70, 2.40	0.85	0.42, 1.71	1.50	0.72, 3.16	-	-
	imputed	1 (0.1)	0	0	6 (1.5)												
<i>Primary care data</i>																	
No. of GP visits prior to birth*	Middle tertile	656 (36.4)	72 (34.5)	50 (25.5)	135 (34.1)	1	-	1	-	1	-	1	-	1	-	1	-
	Lower tertile	635 (35.3)	56 (26.8)	28 (14.3)	171 (43.2)	0.88	0.60, 1.30	0.89	0.60, 1.32	0.60	0.36, 1.00	0.64	0.38, 1.09	1.47	0.77, 2.82	1.36	0.70, 2.64
	Highest tertile	510 (28.3)	81 (38.8)	118 (60.2)	90 (22.7)	1.41	1.01, 1.97	1.37	0.98, 1.94	2.80	2.00, 3.94	2.78	1.94, 4.00	0.50	0.32, 0.78	0.50	0.32, 0.80
Pre-birth screening	No	1785 (99.1)	207 (99.0)	163 (83.2)	390 (98.5)	1	-			1	-	1	-	1	-	1	-
	Yes	16 (0.9)	2 (1.0)	33 (16.8)	6 (1.5)	1.00	0.23, 4.38	0.89	0.20, 3.93	22.0	11.5, 41.9	17.3	8.70, 34.4	0.05	0.01, 0.19	0.05	0.01, 0.22

^aMultinomial logistic regression; ^bLogistic regression; uRRR unadjusted relative risk ratio; aRRR relative risk ratio adjusted for other covariates in the model that showed a bivariate association of $p < 0.1$; IMD Index of Multiple Deprivation; *tertiles calculated within ethno-language groups; bolded estimates are statistically significant at $p < 0.05$; selection of risk factors for multivariate model based on $p < 0.10$; ^c multivariate model includes marital/cohabitation status, employment, Family Resource Survey, smoking, GP visits, screening; ^d multivariate model includes Family Resource Survey, GP visits, screening.

Table DS7 Factors associated with CMD and risk of undetected CMD pre-birth; Other ethnicity

N=1209		Lower risk (GHQ <15, no CMD)	Potentially missed CMD (GHQ ≥15, no CMD)	Identified CMD	imputed	Potentially missed CMD vs. Lower risk ^a				Identified CMD vs. Lower risk ^a				Potentially missed CMD vs. Identified CMD ^b			
		N=894	N=65	N=64	N=186	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^d	95% CI
		n (%)	n (%)	n (%)	n (%)												
<i>Demographic characteristics</i>																	
Age	21-34	723 (80.9)	44 (67.7)	52 (81.3)	158 (85.0)	1	-			1	-	1	-	1	-	-	-
	<20	44 (4.9)	9 (13.9)	5 (7.8)	14 (7.5)	2.74	1.26, 5.97	2.22	0.87, 5.70	1.51	0.59, 3.87	0.43	0.12, 1.56	1.81	0.59, 5.59	-	-
	35+	127 (14.2)	12 (18.5)	7 (10.9)	14 (7.5)	1.52	0.80, 2.92	1.46	0.75, 2.86	0.85	0.37, 1.96	1.02	0.38, 2.77	1.78	0.64, 4.94	-	-
Parity	Nulliparous	454 (50.8)	29 (44.6)	30 (46.9)	84 (45.2)	1	-			1	-			1	-	-	-
	1	261 (29.2)	19 (29.2)	16 (25.0)	33 (17.7)	1.10	0.60, 2.03	-	-	0.91	0.49, 1.70	-	-	1.21	0.52, 2.81	-	-
	2-3	160 (17.9)	16 (24.6)	18 (28.1)	43 (23.1)	1.55	0.83, 2.90	-	-	1.58	0.87, 2.88	-	-	0.98	0.43, 2.24	-	-
	4+	17 (1.9)	1 (1.5)	0	9 (4.8)	1.11	0.16, 7.97	-	-	0	∞	-	-	0	∞	-	-
	imputed	2 (0.2)	0	0	17 (9.1)												
Marital / cohabitation status	Married	654 (73.2)	44 (67.7)	29 (45.3)	133 (71.5)	1	-	1	-	1	-	1	-	1	-	1	-
	Cohabiting	122 (13.7)	6 (9.2)	12 (18.8)	23 (12.4)	0.78	0.34, 1.81	0.73	0.29, 1.82	2.02	1.00, 4.08	1.09	0.43, 2.77	0.39	0.13, 1.12	0.65	0.19, 2.21
	Neither	118 (13.2)	15 (23.1)	23 (35.9)	30 (16.1)	1.79	0.97, 3.30	1.15	0.54, 2.47	4.26	2.41, 7.54	2.10	1.00, 4.41	0.42	0.19, 0.92	0.68	0.27, 1.67
Country of birth and age of migration	Born in UK	352 (39.4)	25 (38.5)	42 (65.6)	57 (30.7)	1	-	1	-	1	-	1	-	1	-	1	-
	Migrated < 16	95 (10.6)	9 (13.9)	7 (10.9)	23 (12.4)	1.32	0.56, 3.07	1.21	0.49, 2.97	0.67	0.29, 1.55	0.73	0.25, 2.10	1.98	0.64, 6.14	1.73	0.50, 5.96
	Migrated 16+	438 (49.0)	31 (47.7)	13 (20.3)	96 (51.6)	1.07	0.63, 1.82	1.29	0.71, 2.34	0.28	0.14, 0.56	0.54	0.22, 1.28	3.79	1.63, 8.83	2.27	0.88, 5.90
	imputed	9 (1.0)	0	2 (3.1)	10 (5.4)												
<i>Socio-economic characteristics</i>																	
Mother's education	≥A-level equiv.	504 (56.4)	34 (52.3)	30 (46.9)	88 (47.3)	1	-	-	-	1	-	-	-	1	-	-	-
	<A-level equiv.	387 (43.3)	30 (46.2)	34 (53.1)	95 (51.1)	1.27	0.78, 2.05	-	-	1.45	0.87, 2.42	-	-	0.87	0.44, 1.72	-	-
	imputed	3 (0.3)	1 (1.5)	0	3 (1.6)												
Mother's employment status	Currently	562 (62.9)	36 (55.4)	29 (45.3)	86 (46.2)	1	-	1	-	1	-	1	-	1	-	1	-
	Previously	204 (22.8)	15 (23.1)	30 (46.9)	58 (31.2)	1.14	0.60, 2.17	0.89	0.44, 1.80	2.56	1.51, 4.35	2.06	1.01, 4.23	0.45	0.21, 0.96	0.41	0.18, 0.95
	Never	128 (14.3)	14 (21.5)	5 (7.8)	39 (21.0)	1.71	0.93, 3.14	1.10	0.56, 2.17	0.73	0.25, 2.10	0.62	0.16, 2.38	2.34	0.74, 7.45	1.85	0.52, 6.52
	imputed	0	0	0	3 (1.6)												
Family Resource Survey no. of items lacked	0	469 (52.5)	25 (38.5)	20 (31.3)	73 (39.3)	1	-	1	-	1	-	1	-	1	-	-	-
	1-2	225 (25.2)	11 (16.9)	11 (17.2)	45 (24.2)	0.95	0.47, 1.92	0.89	0.44, 1.81	1.29	0.63, 2.63	1.17	0.50, 2.74	0.74	0.28, 1.98	-	-
	3-4	103 (11.4)	14 (21.5)	17 (26.6)	23 (12.4)	2.25	1.13, 4.46	1.83	0.89, 3.71	3.76	1.89, 7.48	3.10	1.28, 7.52	0.60	0.25, 1.45	-	-
	5+	84 (9.4)	15 (23.1)	16 (25.0)	25 (13.4)	3.22	1.71, 6.08	2.46	1.21, 5.01	4.02	1.99, 8.11	2.42	0.95, 6.16	0.80	0.33, 1.93	-	-
	imputed	14 (1.6)	0	0	20 (10.8)												
IMD quintile	2-5	311 (34.8)	20 (30.8)	20 (31.3)	47 (25.3)	1	-	-	-	1	-	-	-	1	-	-	-
	1most deprived	583 (65.2)	45 (69.2)	44 (68.8)	139 (74.7)	1.24	0.72, 2.13	-	-	1.13	0.67, 1.92	-	-	1.10	0.53, 2.25	-	-
Means tested benefits	No	656 (73.4)	40 (61.5)	29 (45.3)	126 (67.7)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	236 (26.4)	25 (38.5)	35 (54.7)	60 (32.3)	1.75	1.02, 3.00	1.46	0.78, 2.74	2.88	1.68, 4.93	1.56	0.69, 3.51	0.61	0.30, 1.25	-	-
	imputed	2 (0.2)	0	0	0												
<i>Health behaviours</i>																	
Smoking in pregnancy	No	804 (89.9)	56 (86.2)	43 (67.2)	164 (88.2)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	90 (10.1)	9 (13.9)	21 (32.8)	20 (10.8)	1.39	0.64, 3.00	1.03	0.42, 2.51	4.59	2.59, 8.15	2.76	1.25, 6.12	0.30	0.18, 0.78	0.50	0.17, 1.50
	imputed	0	0	0	2 (1.1)												
<i>Primary care data</i>																	
No. of GP visits prior to birth*	Middle tertile	307 (34.3)	22 (33.9)	13 (20.3)	58 (31.2)	1	-	1	-	1	-	1	-	1	-	1	-
	Lower tertile	319 (35.7)	18 (27.7)	9 (14.1)	72 (38.7)	0.83	0.41, 1.56	0.79	0.41, 1.50	0.64	0.27, 1.51	0.80	0.31, 2.07	1.29	0.43, 3.84	0.87	0.28, 2.70
	Highest tertile	268 (30.0)	25 (38.5)	42 (65.6)	56 (30.1)	1.28	0.72, 2.25	1.18	0.65, 2.13	3.01	1.61, 5.65	2.78	1.29, 6.00	0.42	0.19, 0.96	0.42	0.17, 1.04
Pre-birth screening	No	890 (99.6)	64 (98.5)	46 (71.9)	185 (99.5)	1	-			1	-			1	-	1	-
	Yes	4 (0.5)	1 (1.5)	18 (28.1)	1 (0.5)	3.68	0.40, 34.1	3.50	0.36, 34.0	89.2	28.6, 278.5	69.3	19.8, 242.3	0.04	0.005, 0.34	0.05	0.005, 0.44

^aMultinomial logistic regression; ^bLogistic regression; uRRR unadjusted relative risk ratio; aRRR relative risk ratio adjusted for other covariates in the model that showed a bivariate association of p<0.1; IMD Index of Multiple Deprivation; *tertiles calculated within ethno-language groups; bolded estimates are statistically significant at p<0.05; selection of risk factors for multivariate model based on p<0.10; ^cmultivariate model includes age,

marital/cohabitation status, country of birth/migration age, employment, Family Resource Survey, means tested benefits, smoking, GP visits, screening; ^d multivariate model includes marital/cohabitation status, country of birth/migration age, employment, smoking, GP visits, screening.

Table DS8 Factors associated with CMD and risk of undetected CMD pre-birth; not English

N=1634		Lower risk (GHQ <15, no CMD)	Potentially missed CMD (GHQ ≥15, no CMD)	Identified CMD	imputed	Potentially missed CMD vs. Lower risk ^a				Identified CMD vs. Lower risk ^a				Potentially missed CMD vs. Identified CMD ^b			
		N=1410	N=45	N=53	N=396	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR ^c	95% CI	uRRR	95% CI	aRRR	95% CI
		n (%)	n (%)	n (%)	n (%)												
<i>Demographic characteristics</i>																	
Age	21-34	977 (85.7)	35 (77.8)	42 (79.3)	325 (82.1)	1	-	-	-	1	-	-	-	1	-	-	-
	<20	26 (2.3)	0	0	14 (3.5)	0	∞	-	-	0	∞	-	-	0.01	∞	-	-
	35+	137 (12.0)	10 (22.2)	11 (20.8)	57 (14.4)	1.86	0.92, 3.76	-	-	1.94	1.07, 3.51	-	-	0.96	0.38, 2.31	-	-
Parity	Nulliparous	388 (34.0)	5 (11.1)	8 (15.1)	116 (29.3)	1	-	1-	-	1	-	1	-	1	-	-	-
	1	286 (25.1)	15 (33.3)	11 (20.8)	89 (22.5)	4.23	1.53, 11.7	3.32	1.13, 9.71	1.90	0.77, 4.69	1.83	0.67, 4.94	2.23	0.63, 7.85	-	-
	2-3	354 (31.1)	18 (40.0)	23 (43.4)	123 (31.1)	4.35	1.65, 11.4	2.80	0.92, 8.54	3.17	1.40, 7.19	2.70	1.01, 7.28	1.37	0.39, 4.78	-	-
	4+	106 (9.3)	7 (15.6)	10 (18.9)	40 (10.1)	4.93	1.68, 14.5	2.88	0.84, 9.94	4.34	1.65, 11.4	3.29	1.04, 10.3	1.14	0.27, 4.72	-	-
	imputed	6 (0.5)	0	1 (1.9)	28 (7.1)												
Marital / cohabitation status	Married/Cohab	1099 (96.4)	42 (93.3)	45 (84.9)	381 (96.2)	1	-	1	-	1	-	1	-	1	-	-	-
	Neither	38 (3.3)	3 (6.7)	8 (15.1)	13 (3.3)	1.59	0.52, 4.92	1.20	0.36, 3.98	4.55	1.78, 11.6	5.12	1.65, 15.9	0.35	0.09, 1.43	-	-
	imputed	3 (0.3)	0	0	2 (0.5)												
Country of birth and age of migration	Born in UK	20 (1.8)	1 (2.2)	2 (3.8)	9 (2.3)	1	-	-	-	1	-	-	-	1	-	-	-
	Migrated < 16	55 (4.8)	4 (8.9)	1 (1.9)	13 (3.3)	1.29	0.17, 9.57	-	-	0.20	0.02, 2.17	-	-	6.29	0.34, 114.9	-	-
	Migrated 16+	1056 (92.6)	40 (88.9)	50 (94.3)	355 (89.7)	0.84	0.12, 5.79	-	-	0.53	0.13, 2.16	-	-	1.56	0.17, 14.6	-	-
	imputed	9 (0.8)	0	0	19 (4.8)												
<i>Socio-economic characteristics</i>																	
Mother's education	≥A-level equiv.	299 (26.2)	10 (22.2)	10 (18.9)	78 (19.7)	1	-	-	-	1	-	-	-	1	-	-	-
	<A-level equiv.	836 (73.3)	35 (77.8)	43 (81.1)	316 (79.8)	1.26	0.63, 2.50	-	-	1.47	0.72, 3.01	-	-	0.86	0.34, 2.13	-	-
	imputed	5 (0.4)	0	0	2 (0.5)												
Mother's employment status§	Currently	54 (4.7)	0	4 (7.6)	23 (5.8)	0	∞	-	-	1.71	0.50, 5.77	-	-	0	∞	-	-
	Previously	119 (10.4)	10 (22.2)	7 (13.2)	122 (30.8)	1	-	-	-	1	-	-	-	1	-	-	-
	Never	965 (84.7)	35 (77.8)	42 (79.3)	250 (63.1)	0.40	0.19, 0.81	-	-	0.92	0.34, 2.49	-	-	0.43	0.11, 1.68	-	-
	imputed	2 (0.2)	0	0	1 (0.3)												
Family Resource Survey no. of items lacked	0	454 (39.8)	8 (17.8)	15 (28.3)	148 (37.4)	1	-	1	-	1	-	1	-	1	-	-	-
	1-2	336 (29.5)	8 (17.8)	16 (30.2)	67 (16.9)	1.24	0.44, 3.49	1.04	0.37, 3.00	1.38	0.61, 3.09	0.96	0.42, 2.20	0.90	0.28, 2.89	-	-
	3-4	185 (16.2)	9 (20.0)	9 (17.0)	54 (13.6)	2.11	0.73, 6.16	1.64	0.56, 4.80	1.39	0.58, 3.31	0.89	0.36, 2.16	1.53	0.38, 6.13	-	-
	5+	139 (12.2)	18 (40.0)	13 (24.5)	57 (14.4)	5.49	2.25, 13.4	4.30	1.71, 10.8	2.70	1.23, 5.92	1.44	0.58, 3.54	2.03	0.80, 5.15	-	-
	imputed	26 (2.3)	2 (4.4)	0	70 (17.7)												
IMD quintile	2-5	177 (15.5)	6 (13.3)	7 (13.2)	61 (15.4)	1	-	-	-	1	-	-	-	1	-	-	-
	1most deprived	963 (84.5)	39 (86.7)	46 (86.8)	335 (84.6)	1.31	0.56, 3.06	-	-	1.08	0.54, 2.16	-	-	1.21	0.42, 3.49	-	-
Means tested benefits	No	656 (57.5)	14 (31.1)	19 (35.9)	238 (60.1)	1	-	-	-	1	-	1	-	1	-	-	-
	Yes	480 (42.1)	31 (68.9)	34 (64.2)	156 (39.4)	2.90	1.46, 5.74	1.79	0.83, 3.88	2.42	1.34, 4.37	1.62	0.77, 3.43	1.20	0.52, 2.76	-	-
	imputed	4 (0.4)	0	0	2 (0.5)												
<i>Primary care data</i>																	
No. of GP visits prior to birth*	Middle tertile	395 (34.7)	14 (31.1)	15 (28.3)	133 (33.6)	1	-	1	-	1	-	1	-	1	-	-	-
	Lower tertile	383 (33.6)	15 (33.3)	6 (11.3)	171 (43.2)	1.24	0.66, 2.36	1.24	0.65, 2.40	0.53	0.20, 1.36	0.52	0.20, 1.39	2.37	0.71, 7.92	-	-
	Highest tertile	362 (31.8)	16 (35.6)	32 (60.4)	92 (23.2)	1.33	0.63, 2.76	1.10	0.51, 2.37	2.20	1.12, 4.32	1.81	0.90, 3.63	0.60	0.22, 1.64	-	-
Pre-birth screening	No	1137 (99.7)	43 (95.6)	46 (86.8)	393 (99.2)	1	-	1	-	1	-	1	-	1	-	-	-
	Yes	3 (0.3)	2 (4.4)	7 (13.2)	3 (0.8)	13.2	2.17, 80.7	12.3	1.91, 79.3	53.6	13.4, 215.0	36.7	8.90, 151.1	0.24	0.04, 1.46	-	-

Multinomial logistic regression; uRRR unadjusted relative risk ratio; aRRR relative risk ratio adjusted for other covariates in the model that showed a bivariate association of p<0.1; IMD Index of Multiple Deprivation; § 'previously' used as base category due to low prevalence of 'never'; *tertiles calculated within ethno-language groups; bolded estimates are statistically significant at p<0.05; selection of risk factors for multivariate model based on p<0.10; † multivariate model includes parity, marital/cohabitation status, Family Resource Survey, means tested benefits, GP visits, screening; smoking during pregnancy not included due to low prevalence.