

Additional Table 3. Prevalence of pre-existing multimorbidity in pregnant women in CPRD, SAIL, SMR in 2018 by women's characteristics

Characteristics		Percentage of pregnant women affected by multimorbidity, % (95% confidence intervals)					
		CPRD (UK), n=37641		SAIL (Wales), n=27782		SMR (Scotland), n=6099	
All pregnant women		44.21	(43.71 - 44.71)	46.17	(45.58 - 46.75)	19.79	(18.79 - 20.81)
Age categories (5 yearly)							
	15-19	27.39	(25.66 - 29.17)	30.38	(28.09 - 32.75)	16.11	(12.74 - 19.98)
	20-24	40.81	(39.62 - 42.01)	41.72	(40.39 - 43.05)	22.23	(19.86 - 24.75)
	25-29	44.84	(43.87 - 45.81)	45.69	(44.63 - 46.75)	20.77	(18.93 - 22.70)
	30-34	45.11	(44.16 - 46.06)	48.83	(47.74 - 49.93)	18.56	(16.76 - 20.46)
	35-39	49.85	(48.57 - 51.13)	52.61	(50.95 - 54.26)	19.18	(16.51 - 22.07)
	40-44	53.15	(50.52 - 55.77)	58.21	(54.16 - 62.18)	16.67	(10.87 - 23.95)
	45-49	58.99	(51.38 - 66.29)	62.86	(44.92 - 78.53)	23.07	(5.03 - 53.81)
Gravidity							
	1	36.81	(35.93 - 37.70)	42.33	(41.48 - 43.18)	16.00	(14.34 - 17.78)
	2	41.02	(40.05 - 42.00)	46.79	(45.81 - 47.78)	17.22	(15.58 - 18.95)
	3	46.24	(45.05 - 47.44)	52.52	(50.79 - 54.25)	19.82	(17.51 - 22.29)
	4	49.00	(47.44 - 50.56)	58.16	(55.09 - 61.19)	25.17	(21.69 - 28.91)
	≥5	59.33	(58.03 - 60.63)	66.73	(62.49 - 70.78)	33.89	(30.25 - 37.88)
	Missing	-	- -	-	- -	25.00	(0.63 - 80.59)
Ethnicity							
	Asian / South Asian ^a	33.78	(31.17 - 36.47)	33.25	(28.75 - 38.00)	10.74	(6.30 - 16.85)
	Black	46.97	(43.79 - 50.16)	24.16	(18.07 - 31.13)	17.39	(4.95 - 38.78)
	Mixed	40.00	(34.46 - 45.74)	44.63	(35.59 - 53.94)	25.00	(3.18 - 65.09)
	Other	33.52	(29.50 - 37.73)	24.45	(19.03 - 30.55)	14.29	(7.83 - 23.19)
	White	45.97	(45.30 - 46.65)	50.92	(50.17 - 51.66)	21.22	(20.04 - 22.40)
	Missing	42.80	(41.97 - 43.64)	38.90	(37.91 - 39.89)	14.16	(11.97 - 16.58)

Characteristics	Percentage of pregnant women affected by multimorbidity, % (95% confidence intervals)					
	CPRD, n=37641		SAIL, n=27782		SMR, n=6099	
BMI (kg/m²)						
Underweight (<18.5)	45.85	(43.02 - 48.70)	50.82	(48.05 -53.58)	22.83	(14.72 - 32.75)
Normal Weight (18.5-24.9)	42.80	(41.99 - 43.61)	49.33	(48.32 -50.34)	15.70	(13.88 - 17.65)
Overweight (25-29.9)	47.80	(46.71 - 48.90)	53.57	(52.26 -54.88)	19.60	(17.20 - 22.18)
Obese (30+)	55.57	(54.41 - 56.73)	60.52	(59.20 -61.83)	26.97	(24.56 - 29.50)
Missing	30.52	(29.42 - 31.63)	20.25	(19.24 -21.29)	18.35	(16.77 - 20.01)
Smoking						
Non-Smoker	39.92	(39.28 - 40.57)	41.25	(40.29 -42.21)	15.85	(14.64 - 17.13)
Ex-Smoker	52.13	(50.82 - 53.43)	56.07	(54.98 -57.16)	21.67	(18.96 - 24.57)
Smoker	54.55	(53.46 - 55.63)	60.56	(59.37 -61.74)	32.37	(29.53 - 35.31)
Missing	17.82	(15.78 - 20.01)	4.57	(3.85 -5.38)	17.97	(15.43 - 20.72)
Patient level deprivation quintiles (IMD)	Patient level IMD data only available for England^b					
1, least deprived	45.79	(43.75 - 47.84)	49.30	(48.07 -50.52)	11.36	(9.14 - 13.90)
2	44.47	(42.18 - 46.78)	45.70	(44.37 -47.03)	14.53	(12.44 - 16.83)
3	45.69	(43.42 - 47.97)	46.64	(45.22 -48.07)	19.20	(16.78 - 21.81)
4	45.33	(43.05 - 47.63)	43.01	(41.47 -44.55)	25.54	(23.14 - 28.05)
5, most deprived	44.81	(42.56 - 47.08)	46.22	(44.63 -47.81)	23.96	(21.70 - 26.33)
Missing	43.27	(41.56 - 44.98)	43.89	(42.17 -45.62)	18.90	(16.18 - 21.83)

^a South Asian for CPRD, Asian for SAIL and SMR

^b Aggregate IMD quintiles cannot be provided for UK as each nation has its specific IMD; data presented here is patient level IMD for England only (n=13075).

BMI: body mass index, CPRD: Clinical Practice Research Datalink, IMD: Index of Multiple Deprivation, SAIL: The Secure Anonymized Information Linkage databank, SMR: Scottish Morbidity Records