

Appendix Table A1: Completeness of BMI data in CPRD, by age and calendar year (men and women combined)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
16-24*																						
N registered	8009	10620	11423	12525	12959	13461	14711	17501	19447	23227	28581	31794	34452	36191	38017	39512	40433	41635	42546	42646	42216	41093
BMI in previous 3y (%)	11	20	26	32	34	35	32	28	25	24	23	24	25	26	27	28	30	32	32	34	33	32
BMI any previous (%)	11	20	26	34	39	40	39	37	34	32	30	30	30	31	32	33	34	36	37	39	39	38
25-34																						
N registered	11065	15482	17477	20071	21596	22694	25023	29923	32560	37448	44253	46730	48659	48853	49901	50695	50271	50586	50413	50809	50435	50192
BMI in previous 3y (%)	15	27	37	44	46	47	43	39	36	35	34	35	36	38	41	42	45	47	49	51	50	50
BMI any previous (%)	15	27	38	49	57	62	64	66	66	67	66	66	67	67	68	69	70	71	72	73	73	73
35-44																						
N registered	10912	14569	15953	18120	19383	20797	23403	28838	32305	38809	47168	51881	55991	58121	60408	61817	61912	61983	61014	59595	57197	54926
BMI in previous 3y (%)	15	26	36	44	45	45	41	36	32	30	29	29	31	33	36	38	41	44	46	48	47	47
BMI any previous (%)	15	27	39	50	58	64	66	67	68	69	69	69	71	72	74	75	77	79	80	81	82	83
45-54																						
N registered	8732	12461	14507	17033	18662	20199	22946	27765	30629	35954	43045	45882	48093	49276	51084	52921	53519	54738	55564	56368	56266	56070
BMI in previous 3y (%)	17	29	39	47	47	47	42	37	33	31	30	30	32	34	38	41	44	48	50	51	50	50
BMI any previous (%)	17	30	42	53	61	66	69	70	71	72	72	72	73	74	76	78	80	82	84	85	86	86
55-64																						
N registered	7613	10263	11680	13329	14310	15289	17178	20843	23615	28115	33854	38058	42258	44405	46749	48398	49162	49346	49380	49207	48077	46430
BMI in previous 3y (%)	17	31	42	51	52	51	45	40	37	35	34	35	37	40	45	48	51	56	57	58	56	57
BMI any previous (%)	17	32	44	57	66	70	72	74	74	75	75	76	77	79	81	83	84	86	87	88	89	90
65-74																						
N registered	6715	9346	10678	12190	13128	13554	14900	17605	19246	22460	26600	28870	30997	31790	32914	33516	33402	33895	34508	35245	34845	35163
BMI in previous 3y (%)	14	26	36	45	47	47	42	37	35	34	33	35	40	45	52	56	61	65	67	67	66	67
BMI any previous (%)	14	27	38	51	60	65	69	71	73	75	76	77	79	81	84	87	88	90	91	92	93	93
75+																						
N registered	5680	7796	8637	9926	10670	11852	13416	16005	17989	20997	25213	27585	29384	30016	31036	31849	32157	32484	32523	32507	32007	31621
BMI in previous 3y (%)	9	20	28	34	35	37	35	32	31	31	31	33	37	41	48	54	58	62	64	67	66	67
BMI any previous (%)	9	20	28	37	43	49	53	56	59	61	63	65	69	72	76	80	83	85	87	89	90	91
Total																						
N registered	58726	80537	90355	103194	110708	117846	131577	158480	175791	207010	248714	270800	289834	298652	310109	318708	320856	324667	325948	326377	321043	315495
BMI in previous 3y (%)	14	26	35	43	45	45	40	36	33	31	31	31	34	36	40	43	46	50	51	52	52	52
BMI any previous (%)	15	27	37	48	56	61	63	64	65	66	65	66	67	69	71	72	74	76	77	78	79	79

Appendix Table A2: Completeness of BMI data among patients with diagnoses of type 2 diabetes or mental health disorders, and among statin users

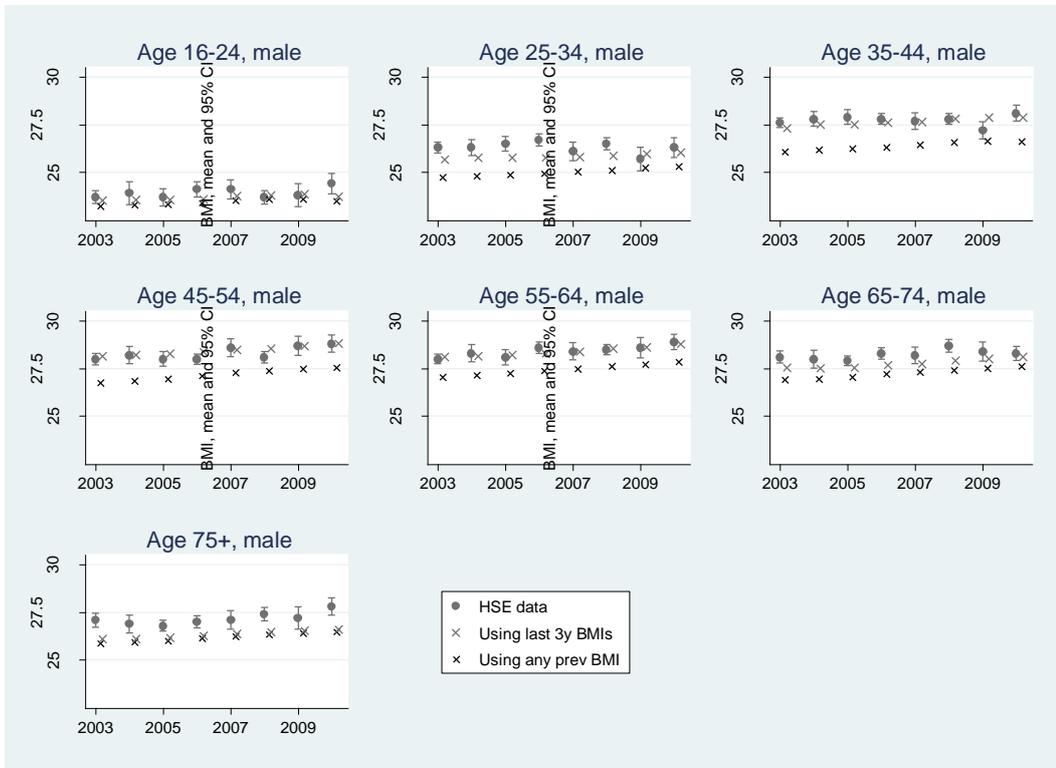
	Type 2 diabetes		Schizophrenia/psychoses		Statin users	
	N registered	N with BMI in last 3y (%)	N registered	N with BMI in last 3y (%)	N registered	N with BMI in last 3y (%)
1990	542	172 (32)	168	32 (19)	18	6 (33)
1991	773	382 (49)	234	62 (26)	63	27 (43)
1992	987	558 (57)	282	108 (38)	137	99 (72)
1993	1239	849 (69)	317	133 (42)	183	142 (78)
1994	1400	1080 (77)	352	156 (44)	233	174 (75)
1995	1636	1311 (80)	388	184 (47)	344	233 (68)
1996	1991	1560 (78)	423	184 (43)	692	408 (59)
1997	2553	1982 (78)	514	181 (35)	1296	688 (53)
1998	3115	2421 (78)	553	184 (33)	2152	1089 (51)
1999	3988	3143 (79)	652	192 (29)	3587	1781 (50)
2000	5421	4263 (79)	795	237 (30)	5736	2950 (51)
2001	6797	5523 (81)	830	256 (31)	8294	4607 (56)
2002	8163	6873 (84)	898	310 (35)	11797	7296 (62)
2003	9232	8094 (88)	954	356 (37)	15878	10925 (69)
2004	10612	9801 (92)	1007	450 (45)	21415	16052 (75)
2005	11883	11307 (95)	1064	555 (52)	26398	20590 (78)
2006	12831	12358 (96)	1068	637 (60)	30977	24772 (80)
2007	13660	13186 (97)	1085	742 (68)	34751	28604 (82)
2008	14367	13906 (97)	1124	813 (72)	36781	30522 (83)
2009	15109	14648 (97)	1133	854 (75)	38942	32144 (83)
2010	15508	15019 (97)	1160	872 (75)	39499	32264 (82)
2011	15732	15224 (97)	1156	898 (78)	38959	31861 (82)

Appendix Table A3: Completeness of BMI data in UK databases.

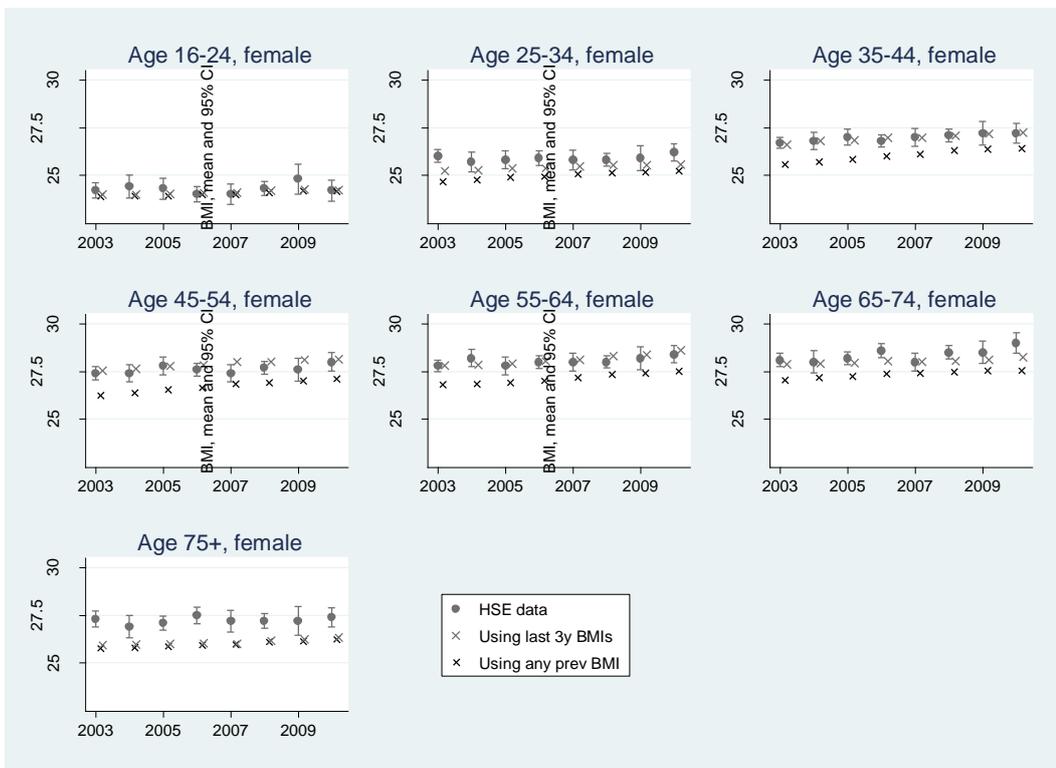
Database	Calendar time-span	Completeness Information
CPRD (current study)	2005-2011	51% of patients had a BMI recorded in the last 3 years. 62% of newly registered patients had a BMI recorded by 12 months after registration in our study.
QResearch [21]	2001-2007	By March 2007, 58% of registered patients had their BMI recorded in the past 5 years.
THIN [22]	2004-2006	62% of patients had a height recording and 66% had a weight recording within 12 months of registration.

Appendix Figure A1: Mean BMI over calendar time comparing those with BMI recorded in CPRD (English practices) with the Health Survey for England 2010 data, stratified by gender and age group

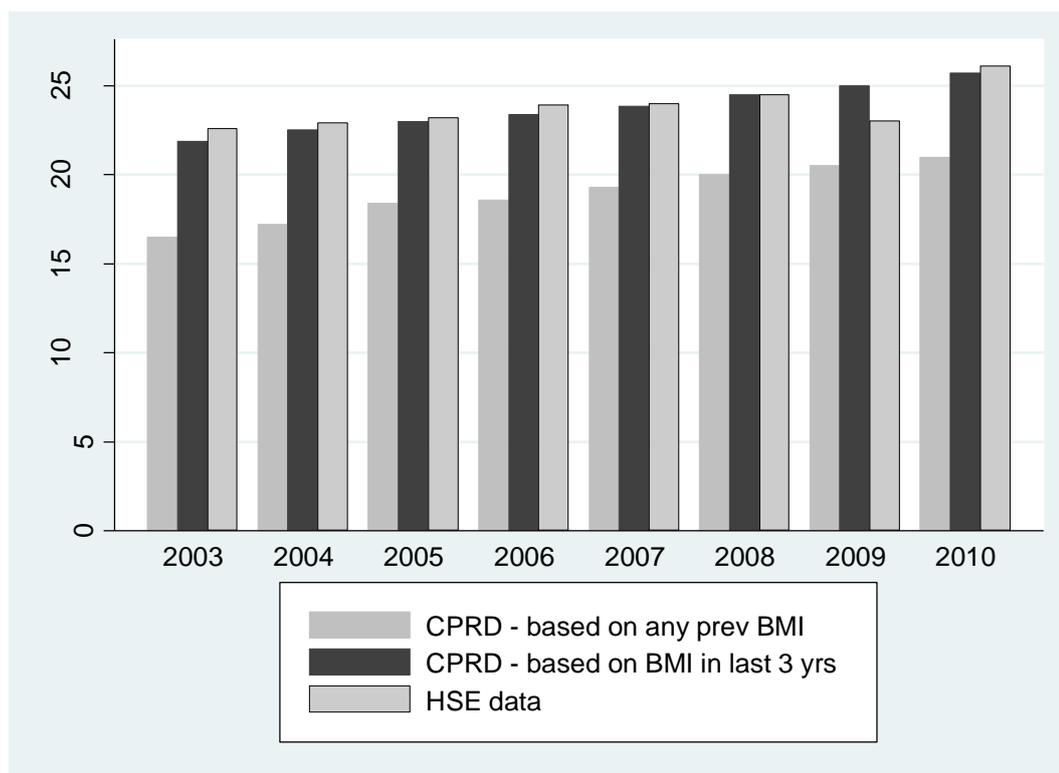
(a) Men



(b) Women

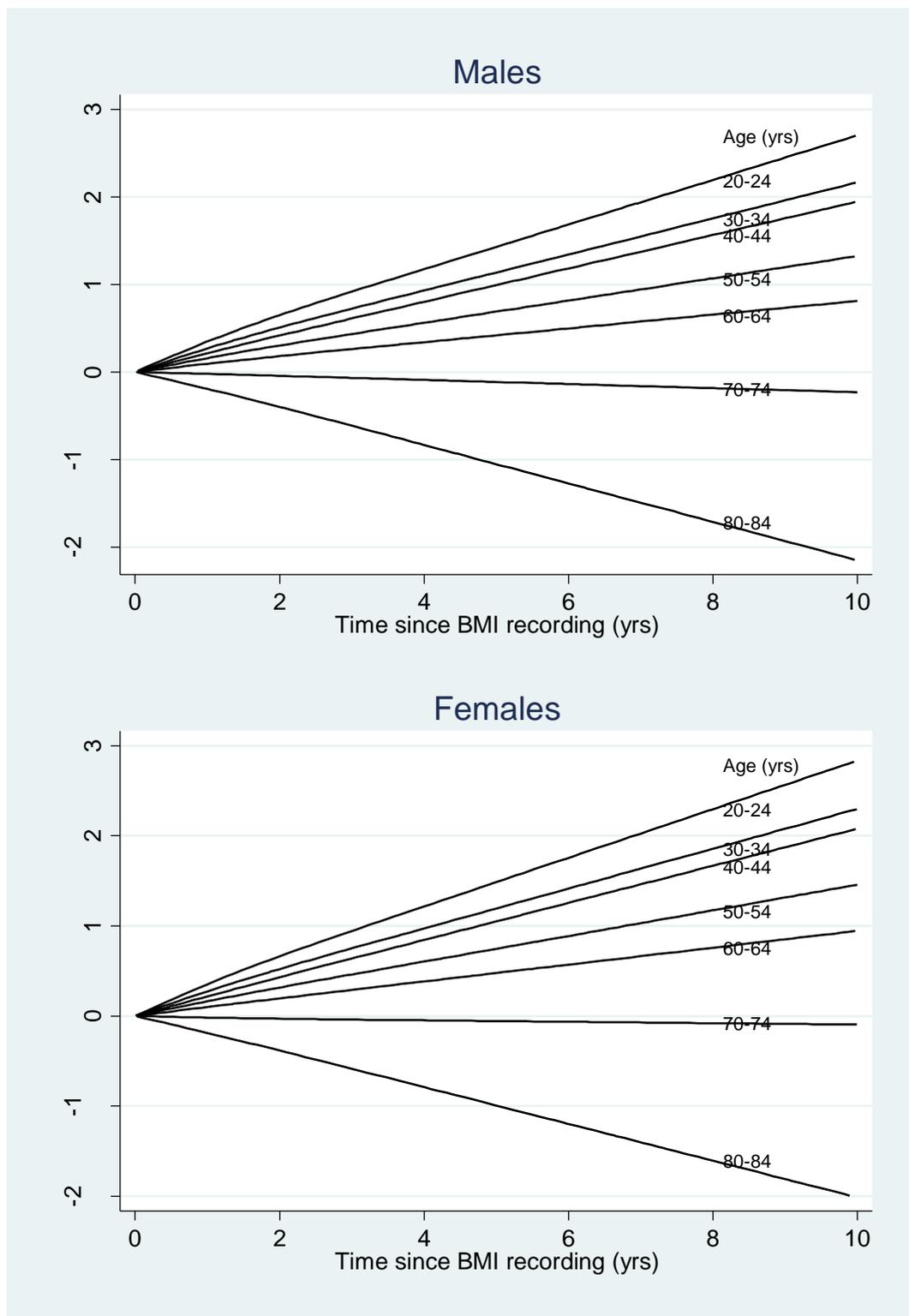


Appendix Figure A2: Percentage of individuals in CPRD (English practices) classified as obese (BMI \geq 30kg/m²) compared with Health Survey for England data



Notes:
Proportions are age- and sex-standardised to the HSE population structure

Appendix Figure A3: Modelled change in BMI over time since BMI recording, by age and sex



Notes:

- Based on a weighted least squares regression model for change in BMI with a 3 knot spline for time since BMI and interaction terms between spline terms and age/sex indicator variables (generating a separate modelled curve for each age/sex stratum). No constant term was included, to ensure that predicted change in BMI at time zero would be zero.
- For clarity, only selected age groups are shown in the Figure; the model also included the age groups 16-19, 25-29, 35-39, 45-49, 55-59, 65-69, 75-79, 85-89, 90+ years.