

Appendix 4: Specific medications in UK Biobank participants with and without COPD						
Medications	Control n=494323 count (%)	Self-report COPD n=8317 count (%)	GOLD COPD			
			All n=2620 count (%)	Mild n=399 count (%)	Moderate n=1409 count (%)	Severe n= 812 count (%)
Total number of medications						
≥1	356406 (72.1)	7670 (92.2)	2452 (93.6)	352 (88.2)	1321 (93.8)	779 (95.9)
≥5	87286 (17.7)	4312 (51.8)	1349 (51.5)	171 (42.9)	702 (49.8)	476 (58.6)
≥10	10678 (2.2)	1269 (15.3)	329 (12.6)	31 (7.8)	172 (12.2)	126 (15.5)
Respiratory						
Short acting B ₂ agon.	22615 (4.6)	3328 (40.0)	1245 (47.5)	123 (30.8)	614 (43.6)	508 (62.6)
LABA	9819 (2.0)	2357 (28.3)	905 (34.5)	93 (23.3)	411 (29.2)	401 (49.3)
LAMA	597 (0.1)	1345 (16.2)	581 (22.2)	33 (8.3)	265 (18.8)	283 (34.9)
ICS	15309 (3.1)	2638 (31.7)	962 (36.7)	98 (24.6)	471 (33.4)	393 (48.4)
LABA+ICS	7259 (1.5)	1842 (22.1)	699 (26.7)	67 (16.8)	313 (22.2)	319 (39.3)
Prednisolone	3127 (0.6)	280 (3.4)	82 (3.1)	12 (3.0)	27 (1.9)	43 (5.3)
Mucolytic	174 (0.04)	187 (2.2)	49 (1.9)	1 (0.3)	10 (0.7)	38 (4.7)
Cardiovascular						
Antiplatelet	21817 (4.4)	894 (10.7)	268 (10.2)	31 (7.8)	158 (11.2)	79 (9.7)
ACE-inhibitor	44991 (9.1)	1276 (15.3)	367 (14.0)	33 (8.3)	198 (14.1)	136 (16.7)
ARB	17911 (3.6)	565 (6.8)	159 (6.1)	17 (4.3)	83 (5.9)	59 (7.2)
Calcium CB	14317 (2.9)	627 (7.5)	196 (7.5)	23 (5.8)	106 (7.5)	67 (8.3)
Statin	73439 (14.9)	2278 (27.4)	707 (27.0)	72 (18.0)	395 (28.0)	240 (29.6)
GTN	4425 (0.9)	373 (4.5)	110 (4.2)	8 (2.0)	70 (5.0)	32 (3.9)
ISMN	2814 (0.6)	244 (2.9)	68 (2.6)	5 (1.3)	42 (3.0)	21 (2.6)
Loop diuretic	4836 (1.0)	415 (5.0)	107 (4.1)	10 (2.5)	51 (3.6)	46 (5.7)
Thiazide	21961 (4.4)	637 (7.7)	196 (7.5)	22 (5.5)	108 (7.7)	66 (8.1)
Warfarin	4934 (1.0)	238 (2.9)	67 (2.6)	6 (1.5)	33 (2.3)	28 (3.4)
Diabetes						
Insulin	4643 (0.9)	161 (1.9)	35 (1.3)	2 (0.5)	23 (1.6)	3 (0.4)
Metformin	13754 (2.8)	448 (5.4)	102 (3.9)	7 (1.8)	57 (4.0)	38 (4.7)
Sulphonylurea	4901 (1.0)	158 (1.9)	35 (1.3)	2 (0.5)	17 (1.2)	16 (2.0)
Thiazolidindione	2212 (0.4)	60 (0.7)	17 (0.6)	1 (0.3)	10 (0.7)	6 (0.7)
Gastrointestinal						
PPI	42012 (8.5)	1989 (23.9)	522 (19.9)	79 (19.8)	286 (20.3)	157 (19.3)
Antacid	2435 (0.5)	146 (1.8)	25 (1.0)	7 (1.8)	10 (0.7)	8 (1.0)
H ₂ RA.	7772 (1.6)	325 (3.9)	89 (3.4)	15 (3.8)	53 (3.8)	21 (2.6)
Laxative	5787 (1.8)	317 (3.8)	81 (3.1)	11 (2.8)	40 (2.8)	30 (3.7)
Pain						
Paracetamol	82376 (16.7)	2752 (33.1)	790 (30.2)	111 (27.8)	446 (31.6)	233 (28.7)
NSAID	45909 (9.3)	1149 (13.8)	319 (12.2)	50 (12.5)	175 (12.4)	94 (11.6)
Weak opiate	18736 (3.8)	1209 (14.5)	336 (12.8)	48 (12.0)	191 (13.6)	97 (11.9)
Strong opiate	1071 (0.2)	106 (1.8)	32 (1.2)	5 (1.3)	16 (1.1)	11 (1.4)
Mental health						
SSRI+related	15394 (3.1)	747 (9.0)	175 (6.7)	31 (7.8)	100 (7.1)	44 (5.4)
Tricyclic	4229 (0.9)	206 (2.5)	49 (1.9)	11 (2.8)	25 (1.8)	13 (1.6)
Antipsychotic	2237 (0.5)	107 (1.3)	30 (1.1)	5 (1.3)	16 (1.1)	9 (1.1)
Benzodiazepine	2316 (0.5)	182 (2.2)	47 (1.8)	6 (1.5)	28 (2.0)	13 (1.6)
Metabolic						
Thyroxine	20980 (4.2)	560 (6.7)	150 (5.7)	27 (6.8)	92 (6.5)	31 (3.8)
Bisphosphonate	3655 (0.7)	189 (2.3)	66 (2.5)	15 (3.8)	32 (2.3)	19 (2.3)