

Supplementary material 7 – Coefficient data

a. Global

global_sensitivity	IRR	OIM std. err.	z	P> z	[95% conf. interval]	
time1	1.003493	.0003104	11.27	0.000	1.002884	1.004101
time2bis	.9953971	.0003027	-15.17	0.000	.994804	.9959905
time23	1.003349	.0002805	11.96	0.000	1.0028	1.003899
time3	1.002109	.0002675	7.89	0.000	1.001585	1.002634
time4	1.007413	.0001213	61.36	0.000	1.007175	1.007651
cos_1	1.00235	.0009564	2.46	0.014	1.000477	1.004226
sin_1	.993747	.000962	-6.48	0.000	.9918633	.9956343
_cons	25660.93	82.4744	3158.90	0.000	25499.8	25823.09

b. Sex

sex_sensitivity	IRR	OIM std. err.	z	P> z	[95% conf. interval]	
time1	1.003969	.0004491	8.86	0.000	1.003089	1.004849
sex						
Female	1.1098	.0070922	16.30	0.000	1.095986	1.123788
sex#c.time1						
Female	.9991294	.0006159	-1.41	0.158	.997923	1.000337
time2bis	.9957303	.0004379	-9.73	0.000	.9948724	.9965888
sex#c.time2bis						
Female	.9993437	.0006082	-1.08	0.281	.9981524	1.000536
time23	1.003391	.0004049	8.39	0.000	1.002597	1.004185
sex#c.time23						
Female	.9999174	.0005594	-0.15	0.883	.9988217	1.001014
time3	1.003225	.0003851	8.39	0.000	1.00247	1.00398
sex#c.time3						
Female	.9978452	.0005326	-4.04	0.000	.9968018	.9988896
time4	1.008	.000173	46.42	0.000	1.007661	1.008339
sex#c.time4						
Female	.9988644	.0002393	-4.74	0.000	.9983955	.9993335
cos_1	1.002327	.0009564	2.44	0.015	1.000455	1.004204
sin_1	.9937643	.0009621	-6.46	0.000	.9918804	.9956517
_cons	12160.08	56.49698	2024.47	0.000	12049.85	12271.31

c. lcd codes

icd_sensitivity	IRR	OIM std. err.	z	P> z	[95% conf. interval]	
time1	1.009431	.0008907	10.64	0.000	1.007687	1.011178
1.cancer	7.619753	.0750292	206.24	0.000	7.474108	7.768236
cancer#c.time1						
1	.9933026	.0009348	-7.14	0.000	.9914721	.9951364
time2bis	.9962429	.0008509	-4.41	0.000	.9945765	.9979121
cancer#c.time2bis						
1	.9990448	.0009131	-1.05	0.296	.9972568	1.000836
time23	1.003796	.0007828	4.86	0.000	1.002263	1.005331
cancer#c.time23						
1	.9994504	.0008349	-0.66	0.510	.9978154	1.001088
time3	1.002162	.0007383	2.93	0.003	1.000716	1.00361
cancer#c.time3						
1	.9999813	.0007902	-0.02	0.981	.9984337	1.001531
time4	1.014488	.0003239	45.05	0.000	1.013854	1.015123
cancer#c.time4						
1	.9918984	.0003414	-23.64	0.000	.9912296	.9925678
cos_1	1.002497	.0009565	2.61	0.009	1.000624	1.004373
sin_1	.9937764	.0009619	-6.45	0.000	.9918928	.9956636
_cons	2977.948	27.54119	864.91	0.000	2924.454	3032.419

d. Pension age

pensionage_sensitivity	OIM					
	IRR	std. err.	z	P> z	[95% conf. interval]	
time1	.9978266	.0008986	-2.42	0.016	.9960669	.9995895
pensionage Below state pension age	7.27817	.0719393	200.81	0.000	7.138528	7.420543
pensionage#c.time1 Below state pension age	1.00643	.0009639	6.69	0.000	1.004543	1.008321
time2bis	1.009384	.0008751	10.77	0.000	1.00767	1.0111
pensionage#c.time2bis Below state pension age	.9842574	.0009111	-17.14	0.000	.9824732	.9860448
time23	1.01426	.0007573	18.96	0.000	1.012777	1.015746
pensionage#c.time23 Below state pension age	.9874755	.0007952	-15.65	0.000	.9859182	.9890353
time3	1.011315	.0006764	16.82	0.000	1.00999	1.012642
pensionage#c.time3 Below state pension age	.9892089	.0007214	-14.88	0.000	.987796	.9906239
time4	1.013801	.0002853	48.70	0.000	1.013242	1.01436
pensionage#c.time4 Below state pension age	.99229	.0003084	-24.91	0.000	.9916858	.9928946
cos_1	1.002448	.0009565	2.56	0.010	1.000575	1.004325
sin_1	.9936037	.0009619	-6.63	0.000	.9917201	.9954907
_cons	3100.242	28.8031	865.31	0.000	3044.299	3157.212

e. Location

apps_	OIM					
	IRR	std. err.	z	P> z	[95% conf. interval]	
time1	1.006114	.0009748	6.29	0.000	1.004205	1.008027
location						
East Midlands	.7855259	.011949	-15.87	0.000	.7624521	.8092981
East of England	.9345201	.0136239	-4.65	0.000	.9081956	.9616076
North East	.607194	.0099874	-30.33	0.000	.5879312	.6270879
North West	1.637463	.0209752	38.50	0.000	1.596864	1.679094
South East	1.324423	.0177002	21.02	0.000	1.290182	1.359573
South West	.8920844	.0131341	-7.76	0.000	.8667099	.9182017
Wales	.6473842	.0104374	-26.97	0.000	.627247	.6681679
West Midlands	1.071871	.01514	4.91	0.000	1.042604	1.101959
Yorkshire and The Humber	1.169149	.0160589	11.38	0.000	1.138095	1.201052
location#c.time1						
East Midlands	.9987958	.0014615	-0.82	0.410	.9959355	1.001664
East of England	.995203	.0014008	-3.42	0.001	.9924614	.9979523
North East	.9974177	.0015804	-1.63	0.103	.9943249	1.00052
North West	.997649	.0012293	-1.91	0.056	.9952424	1.000061
South East	.9984774	.0012832	-1.19	0.236	.9959655	1.000996
South West	.9968118	.001413	-2.25	0.024	.9940462	.9995851
Wales	.9976032	.0015491	-1.55	0.122	.9945717	1.000644
West Midlands	.9924357	.0013562	-5.56	0.000	.9897811	.9950974
Yorkshire and The Humber	.99916	.0013199	-0.64	0.525	.9965765	1.00175
time2bis	.9924545	.0009494	-7.92	0.000	.9905954	.994317
location#c.time2bis						
East Midlands	1.00225	.001447	1.56	0.119	.9994183	1.005091
East of England	1.000128	.0013996	0.09	0.927	.9973883	1.002875
North East	1.002791	.0015682	1.78	0.075	.9997216	1.005869
North West	1.006051	.0012209	4.97	0.000	1.003661	1.008447
South East	1.004514	.0012711	3.56	0.000	1.002026	1.007008
South West	1.007179	.001403	5.14	0.000	1.004433	1.009933
Wales	1.002809	.0015381	1.83	0.067	.999799	1.005828
West Midlands	1.001322	.0013647	0.97	0.332	.9986511	1.004001
Yorkshire and The Humber	1.00043	.0013056	0.33	0.742	.9978743	1.002992
time23	1.003143	.0008894	3.54	0.000	1.001401	1.004888
location#c.time23						
East Midlands	.9989399	.0013329	-0.79	0.427	.9963308	1.001556
East of England	1.001953	.001297	1.51	0.132	.999414	1.004498
North East	1.00282	.0014403	1.96	0.050	1.000001	1.005647
North West	.9984224	.0011182	-1.41	0.159	.9962333	1.000616
South East	1.000339	.0011662	0.29	0.771	.9980558	1.002627
South West	1.001039	.0012779	0.81	0.416	.9985375	1.003547
Wales	.9993403	.0014161	-0.47	0.641	.9965687	1.00212
West Midlands	.9983163	.0012631	-1.33	0.183	.9958437	1.000795
Yorkshire and The Humber	1.001978	.0012085	1.64	0.101	.9996121	1.004349
time3	.9985654	.0008522	-1.68	0.093	.9968965	1.000237

time3	.9985654	.0008522	-1.68	0.093	.9968965	1.000237
location#c.time3						
East Midlands	1.006219	.0012836	4.86	0.000	1.003706	1.008738
East of England	1.001885	.0012434	1.52	0.129	.9994506	1.004325
North East	1.003714	.0013747	2.71	0.007	1.001023	1.006412
North West	1.003849	.0010797	3.57	0.000	1.001735	1.005967
South East	1.005743	.0011211	5.14	0.000	1.003548	1.007943
South West	1.006204	.0012264	5.07	0.000	1.003803	1.008611
Wales	1.002937	.0013642	2.16	0.031	1.000267	1.005615
West Midlands	1.00411	.0012195	3.38	0.001	1.001723	1.006503
Yorkshire and The Humber	1.000815	.0011599	0.70	0.482	.9985444	1.003091
time4	1.008635	.0003882	22.34	0.000	1.007875	1.009396
location#c.time4						
East Midlands	.999882	.0005698	-0.21	0.836	.9987658	1.000999
East of England	.9982885	.0005592	-3.06	0.002	.997193	.9993852
North East	.9981807	.0006152	-2.95	0.003	.9969756	.9993873
North West	.999024	.0004834	-2.02	0.044	.9980769	.999972
South East	.9998835	.0004992	-0.23	0.815	.9989056	1.000862
South West	.9963158	.0005476	-6.72	0.000	.9952432	.9973897
Wales	.9985647	.0006121	-2.34	0.019	.9973658	.999765
West Midlands	1.000149	.0005444	0.27	0.784	.9990828	1.001217
Yorkshire and The Humber	.9969616	.0005238	-5.79	0.000	.9959355	.9979888
cos_1	1.002376	.0009569	2.49	0.013	1.000502	1.004253
sin_1	.9937608	.0009625	-6.46	0.000	.9918762	.995649
_cons	2545.532	25.66518	777.80	0.000	2495.723	2596.335