

Appendix 3 to excess mortality in England and Wales during the 2020 COVID19 pandemic

Evangelos Kontopantelis
Mamas A Mamas
John Deanfield
Miqdad Asaria
Tim Doran

October 7, 2020

Contents

1	England-Wales aggregates, per 100k population	10
1.1	Time trend	10
1.2	Time trend and Negative Binomial Regression model	12
1.3	Excess number of deaths: all causes	14
1.4	Excess number of deaths: all causes minus COVID19 deaths	16
1.5	Excess number of deaths: all causes minus respiratory deaths	18
2	Regional, per 100k population	20
2.1	Time trends	20
2.2	North East	22
2.3	North West	27
2.4	Yorkshire and the Humber	32
2.5	East Midlands	37
2.6	West Midlands	42
2.7	East	47
2.8	London	52
2.9	South East	57
2.10	South West	62
2.11	Wales	67
3	Age groups, per 100k people	72
3.1	Time trends	72
3.2	All aged under 1	74
3.3	All aged 01-14	79
3.4	All aged 15-44	84
3.5	All aged 45-64	89

3.6	All aged 65-74	94
3.7	All aged 75-84	99
3.8	All aged 85+	104
4	Age groups, per 100k males	109
4.1	Time trends	109
4.2	Males aged under 1	111
4.3	Males aged 01-14	116
4.4	Males aged 15-44	121
4.5	Males aged 45-64	126
4.6	Males aged 65-74	131
4.7	Males aged 75-84	136
4.8	Males aged 85+	141
5	Age groups, per 100k females	146
5.1	Time trends	146
5.2	Females aged under 1	148
5.3	Females aged 01-14	153
5.4	Females aged 15-44	158
5.5	Females aged 45-64	163
5.6	Females aged 65-74	168
5.7	Females aged 75-84	173
5.8	Females aged 85+	178

List of Figures

1	Mortality time trend, from 2010 week 1	10
2	Mortality time trend, from 2019 week 1	11
3	Mortality time trend, from 2020 week 1	11
4	Mortality time trend and model, from 2010 week 1	12
5	Mortality time trend and model, from 2019 week 1	13
6	Mortality time trend and model, from 2020 week 1	13
7	All-cause excess deaths, from 2010 week 1	14
8	All-cause excess deaths, from 2019 week 1	15
9	All-cause excess deaths, from 2020 week 1	15
10	All-cause excess deaths minus COVID19, from 2010 week 1	16
11	All-cause excess deaths minus COVID19, from 2019 week 1	17
12	All-cause excess deaths minus COVID19, from 2020 week 1	17
13	All-cause excess deaths minus COVID19, from 2010 week 1	18
14	All-cause excess deaths minus COVID19, from 2019 week 1	19
15	All-cause excess deaths minus COVID19, from 2020 week 1	19
16	Regional mortality time trends, from 2010 week 1	20
17	Regional mortality time trends, from 2019 week 1	21
18	Regional mortality time trends, from 2020 week 1	21
19	NE Mortality time trend and model, from 2010 week 1	22

20	NE Mortality time trend and model, from 2019 week 1	23
21	NE Mortality time trend and model, from 2020 week 1	23
22	NE all-cause excess deaths, from 2010 week 1	24
23	NE all-cause excess deaths, from 2019 week 1	24
24	NE all-cause excess deaths, from 2020 week 1	25
25	NE all-cause excess deaths minus COVID19, from 2010 week 1	25
26	NE all-cause excess deaths minus COVID19, from 2019 week 1	26
27	NE all-cause excess deaths minus COVID19, from 2020 week 1	26
28	NW Mortality time trend and model, from 2010 week 1	27
29	NW Mortality time trend and model, from 2019 week 1	28
30	NW Mortality time trend and model, from 2020 week 1	28
31	NW all-cause excess deaths, from 2010 week 1	29
32	NW all-cause excess deaths, from 2019 week 1	29
33	NW all-cause excess deaths, from 2020 week 1	30
34	NW all-cause excess deaths minus COVID19, from 2010 week 1	30
35	NW all-cause excess deaths minus COVID19, from 2019 week 1	31
36	NW all-cause excess deaths minus COVID19, from 2020 week 1	31
37	YatH Mortality time trend and model, from 2010 week 1	32
38	YatH Mortality time trend and model, from 2019 week 1	33
39	YatH Mortality time trend and model, from 2020 week 1	33
40	YatH all-cause excess deaths, from 2010 week 1	34
41	YatH all-cause excess deaths, from 2019 week 1	34
42	YatH all-cause excess deaths, from 2020 week 1	35
43	YatH all-cause excess deaths minus COVID19, from 2010 week 1	35
44	YatH all-cause excess deaths minus COVID19, from 2019 week 1	36
45	YatH all-cause excess deaths minus COVID19, from 2020 week 1	36
46	EMD Mortality time trend and model, from 2010 week 1	37
47	EMD Mortality time trend and model, from 2019 week 1	38
48	EMD Mortality time trend and model, from 2020 week 1	38
49	EMD all-cause excess deaths, from 2010 week 1	39
50	EMD all-cause excess deaths, from 2019 week 1	39
51	EMD all-cause excess deaths, from 2020 week 1	40
52	EMD all-cause excess deaths minus COVID19, from 2010 week 1	40
53	EMD all-cause excess deaths minus COVID19, from 2019 week 1	41
54	EMD all-cause excess deaths minus COVID19, from 2020 week 1	41
55	WMD Mortality time trend and model, from 2010 week 1	42
56	WMD Mortality time trend and model, from 2019 week 1	43
57	WMD Mortality time trend and model, from 2020 week 1	43
58	WMD all-cause excess deaths, from 2010 week 1	44
59	WMD all-cause excess deaths, from 2019 week 1	44
60	WMD all-cause excess deaths, from 2020 week 1	45
61	WMD all-cause excess deaths minus COVID19, from 2010 week 1	45
62	WMD all-cause excess deaths minus COVID19, from 2019 week 1	46
63	WMD all-cause excess deaths minus COVID19, from 2020 week 1	46
64	East Mortality time trend and model, from 2010 week 1	47
65	East Mortality time trend and model, from 2019 week 1	48

66	East Mortality time trend and model, from 2020 week 1	48
67	East all-cause excess deaths, from 2010 week 1	49
68	East all-cause excess deaths, from 2019 week 1	49
69	East all-cause excess deaths, from 2020 week 1	50
70	East all-cause excess deaths minus COVID19, from 2010 week 1 .	50
71	East all-cause excess deaths minus COVID19, from 2019 week 1 .	51
72	East all-cause excess deaths minus COVID19, from 2020 week 1 .	51
73	London Mortality time trend and model, from 2010 week 1 . . .	52
74	London Mortality time trend and model, from 2019 week 1 . . .	53
75	London Mortality time trend and model, from 2020 week 1 . . .	53
76	London all-cause excess deaths, from 2010 week 1	54
77	London all-cause excess deaths, from 2019 week 1	54
78	London all-cause excess deaths, from 2020 week 1	55
79	London all-cause excess deaths minus COVID19, from 2010 week 1	55
80	London all-cause excess deaths minus COVID19, from 2019 week 1	56
81	London all-cause excess deaths minus COVID19, from 2020 week 1	56
82	SE Mortality time trend and model, from 2010 week 1	57
83	SE Mortality time trend and model, from 2019 week 1	58
84	SE Mortality time trend and model, from 2020 week 1	58
85	SE all-cause excess deaths, from 2010 week 1	59
86	SE all-cause excess deaths, from 2019 week 1	59
87	SE all-cause excess deaths, from 2020 week 1	60
88	SE all-cause excess deaths minus COVID19, from 2010 week 1 . .	60
89	SE all-cause excess deaths minus COVID19, from 2019 week 1 . .	61
90	SE all-cause excess deaths minus COVID19, from 2020 week 1 . .	61
91	SW Mortality time trend and model, from 2010 week 1	62
92	SE Mortality time trend and model, from 2019 week 1	63
93	SW Mortality time trend and model, from 2020 week 1	63
94	SW all-cause excess deaths, from 2010 week 1	64
95	SW all-cause excess deaths, from 2019 week 1	64
96	SW all-cause excess deaths, from 2020 week 1	65
97	SW all-cause excess deaths minus COVID19, from 2010 week 1 .	65
98	SW all-cause excess deaths minus COVID19, from 2019 week 1 .	66
99	SW all-cause excess deaths minus COVID19, from 2020 week 1 .	66
100	Wales Mortality time trend and model, from 2010 week 1	67
101	SE Mortality time trend and model, from 2019 week 1	68
102	Wales Mortality time trend and model, from 2020 week 1	68
103	Wales all-cause excess deaths, from 2010 week 1	69
104	Wales all-cause excess deaths, from 2019 week 1	69
105	Wales all-cause excess deaths, from 2020 week 1	70
106	Wales all-cause excess deaths minus COVID19, from 2010 week 1	70
107	Wales all-cause excess deaths minus COVID19, from 2019 week 1	71
108	Wales all-cause excess deaths minus COVID19, from 2020 week 1	71
109	All age group mortality time trends, from 2010 week 1	72
110	All age group mortality time trends, from 2019 week 1	73
111	All age group mortality time trends, from 2020 week 1	73

112	All < 1 mortality time trend and model, from 2010 week 1	74
113	All < 1 mortality time trend and model, from 2019 week 1	75
114	All < 1 mortality time trend and model, from 2020 week 1	75
115	All < 1 all-cause excess deaths, from 2010 week 1	76
116	All < 1 all-cause excess deaths, from 2019 week 1	76
117	All < 1 all-cause excess deaths, from 2020 week 1	77
118	All < 1 all-cause excess deaths minus COVID19, from 2010 week 1	77
119	All < 1 all-cause excess deaths minus COVID19, from 2019 week 1	78
120	All < 1 all-cause excess deaths minus COVID19, from 2020 week 1	78
121	All 01-14 mortality time trend and model, from 2010 week 1 . . .	79
122	All 01-14 mortality time trend and model, from 2019 week 1 . . .	80
123	All 01-14 mortality time trend and model, from 2020 week 1 . . .	80
124	All 01-14 all-cause excess deaths, from 2010 week 1	81
125	All 01-14 all-cause excess deaths, from 2019 week 1	81
126	All 01-14 all-cause excess deaths, from 2020 week 1	82
127	All 01-14 all-cause excess deaths (–COVID19), from 2010 week 1	82
128	All 01-14 all-cause excess deaths (–COVID19), from 2019 week 1	83
129	All 01-14 all-cause excess deaths (–COVID19), from 2020 week 1	83
130	All 15-44 mortality time trend and model, from 2010 week 1 . . .	84
131	All 15-44 mortality time trend and model, from 2019 week 1 . . .	85
132	All 15-44 mortality time trend and model, from 2020 week 1 . . .	85
133	All 15-44 all-cause excess deaths, from 2010 week 1	86
134	All 15-44 all-cause excess deaths, from 2019 week 1	86
135	All 15-44 all-cause excess deaths, from 2020 week 1	87
136	All 15-44 all-cause excess deaths (–COVID19), from 2010 week 1	87
137	All 15-44 all-cause excess deaths (–COVID19), from 2019 week 1	88
138	All 15-44 all-cause excess deaths (–COVID19), from 2020 week 1	88
139	All 45-64 mortality time trend and model, from 2010 week 1 . . .	89
140	All 45-64 mortality time trend and model, from 2019 week 1 . . .	90
141	All 45-64 mortality time trend and model, from 2020 week 1 . . .	90
142	All 45-64 all-cause excess deaths, from 2010 week 1	91
143	All 45-64 all-cause excess deaths, from 2019 week 1	91
144	All 45-64 all-cause excess deaths, from 2020 week 1	92
145	All 45-64 all-cause excess deaths (–COVID19), from 2010 week 1	92
146	All 45-64 all-cause excess deaths (–COVID19), from 2019 week 1	93
147	All 45-64 all-cause excess deaths (–COVID19), from 2020 week 1	93
148	All 65-74 mortality time trend and model, from 2010 week 1 . . .	94
149	All 65-74 mortality time trend and model, from 2019 week 1 . . .	95
150	All 65-74 mortality time trend and model, from 2020 week 1 . . .	95
151	All 65-74 all-cause excess deaths, from 2010 week 1	96
152	All 65-74 all-cause excess deaths, from 2019 week 1	96
153	All 65-74 all-cause excess deaths, from 2020 week 1	97
154	All 65-74 all-cause excess deaths (–COVID19), from 2010 week 1	97
155	All 65-74 all-cause excess deaths (–COVID19), from 2019 week 1	98
156	All 65-74 all-cause excess deaths (–COVID19), from 2020 week 1	98
157	All 75-84 mortality time trend and model, from 2010 week 1 . . .	99

158	All 75-84 mortality time trend and model, from 2019 week 1 . . .	100
159	All 75-84 mortality time trend and model, from 2020 week 1 . . .	100
160	All 75-84 all-cause excess deaths, from 2010 week 1	101
161	All 75-84 all-cause excess deaths, from 2019 week 1	101
162	All 75-84 all-cause excess deaths, from 2020 week 1	102
163	All 75-84 all-cause excess deaths (–COVID19), from 2010 week 1	102
164	All 75-84 all-cause excess deaths (–COVID19), from 2019 week 1	103
165	All 75-84 all-cause excess deaths (–COVID19), from 2020 week 1	103
166	All 85+ mortality time trend and model, from 2010 week 1 . . .	104
167	All 85+ mortality time trend and model, from 2019 week 1 . . .	105
168	All 85+ mortality time trend and model, from 2020 week 1 . . .	105
169	All 85+ all-cause excess deaths, from 2010 week 1	106
170	All 85+ all-cause excess deaths, from 2019 week 1	106
171	All 85+ all-cause excess deaths, from 2020 week 1	107
172	All 85+ all-cause excess deaths (–COVID19), from 2010 week 1	107
173	All 85+ all-cause excess deaths (–COVID19), from 2019 week 1	108
174	All 85+ all-cause excess deaths (–COVID19), from 2020 week 1	108
175	Male age group mortality time trends, from 2010 wk1	109
176	Male age group mortality time trends, from 2019 wk1	110
177	Male age group mortality time trends, from 2020 wk1	110
178	Males < 1 mortality time trend and model, from 2010 wk1	111
179	Males < 1 mortality time trend and model, from 2019 wk1	112
180	Males < 1 mortality time trend and model, from 2020 wk1	112
181	Males < 1 all-cause excess deaths, from 2010 wk1	113
182	Males < 1 all-cause excess deaths, from 2019 wk1	113
183	Males < 1 all-cause excess deaths, from 2020 wk1	114
184	Males < 1 all-cause excess deaths minus COVID19, from 2010 wk1	114
185	Males < 1 all-cause excess deaths minus COVID19, from 2019 wk1	115
186	Males < 1 all-cause excess deaths minus COVID19, from 2020 wk1	115
187	Males 01-14 mortality time trend and model, from 2010 wk1 . . .	116
188	Males 01-14 mortality time trend and model, from 2019 wk1 . . .	117
189	Males 01-14 mortality time trend and model, from 2020 wk1 . . .	117
190	Males 01-14 all-cause excess deaths, from 2010 wk1	118
191	Males 01-14 all-cause excess deaths, from 2019 wk1	118
192	Males 01-14 all-cause excess deaths, from 2020 wk1	119
193	Males 01-14 all-cause excess deaths (–COVID19), from 2010 wk1	119
194	Males 01-14 all-cause excess deaths (–COVID19), from 2019 wk1	120
195	Males 01-14 all-cause excess deaths (–COVID19), from 2020 wk1	120
196	Males 15-44 mortality time trend and model, from 2010 wk1 . . .	121
197	Males 15-44 mortality time trend and model, from 2019 wk1 . . .	122
198	Males 15-44 mortality time trend and model, from 2020 wk1 . . .	122
199	Males 15-44 all-cause excess deaths, from 2010 wk1	123
200	Males 15-44 all-cause excess deaths, from 2019 wk1	123
201	Males 15-44 all-cause excess deaths, from 2020 wk1	124
202	Males 15-44 all-cause excess deaths (–COVID19), from 2010 wk1	124
203	Males 15-44 all-cause excess deaths (–COVID19), from 2019 wk1	125

204	Males 15-44 all-cause excess deaths (–COVID19), from 2020 wk1	125
205	Males 45-64 mortality time trend and model, from 2010 wk1 . . .	126
206	Males 45-64 mortality time trend and model, from 2019 wk1 . . .	127
207	Males 45-64 mortality time trend and model, from 2020 wk1 . . .	127
208	Males 45-64 all-cause excess deaths, from 2010 wk1	128
209	Males 45-64 all-cause excess deaths, from 2019 wk1	128
210	Males 45-64 all-cause excess deaths, from 2020 wk1	129
211	Males 45-64 all-cause excess deaths (–COVID19), from 2010 wk1	129
212	Males 45-64 all-cause excess deaths (–COVID19), from 2019 wk1	130
213	Males 45-64 all-cause excess deaths (–COVID19), from 2020 wk1	130
214	Males 65-74 mortality time trend and model, from 2010 wk1 . . .	131
215	Males 65-74 mortality time trend and model, from 2019 wk1 . . .	132
216	Males 65-74 mortality time trend and model, from 2020 wk1 . . .	132
217	Males 65-74 all-cause excess deaths, from 2010 wk1	133
218	Males 65-74 all-cause excess deaths, from 2019 wk1	133
219	Males 65-74 all-cause excess deaths, from 2020 wk1	134
220	Males 65-74 all-cause excess deaths (–COVID19), from 2010 wk1	134
221	Males 65-74 all-cause excess deaths (–COVID19), from 2019 wk1	135
222	Males 65-74 all-cause excess deaths (–COVID19), from 2020 wk1	135
223	Males 75-84 mortality time trend and model, from 2010 wk1 . . .	136
224	Males 75-84 mortality time trend and model, from 2019 wk1 . . .	137
225	Males 75-84 mortality time trend and model, from 2020 wk1 . . .	137
226	Males 75-84 all-cause excess deaths, from 2010 wk1	138
227	Males 75-84 all-cause excess deaths, from 2019 wk1	138
228	Males 75-84 all-cause excess deaths, from 2020 wk1	139
229	Males 75-84 all-cause excess deaths (–COVID19), from 2010 wk1	139
230	Males 75-84 all-cause excess deaths (–COVID19), from 2019 wk1	140
231	Males 75-84 all-cause excess deaths (–COVID19), from 2020 wk1	140
232	Males 85+ mortality time trend and model, from 2010 wk1 . . .	141
233	Males 85+ mortality time trend and model, from 2019 wk1 . . .	142
234	Males 85+ mortality time trend and model, from 2020 wk1 . . .	142
235	Males 85+ all-cause excess deaths, from 2010 wk1	143
236	Males 85+ all-cause excess deaths, from 2019 wk1	143
237	Males 85+ all-cause excess deaths, from 2020 wk1	144
238	Males 85+ all-cause excess deaths (–COVID19), from 2010 wk1	144
239	Males 85+ all-cause excess deaths (–COVID19), from 2019 wk1	145
240	Males 85+ all-cause excess deaths (–COVID19), from 2020 wk1	145
241	Female age group mortality time trends, fm 2010 wk1	146
242	Female age group mortality time trends, fm 2019 wk1	147
243	Female age group mortality time trends, fm 2020 wk1	147
244	Females < 1 mortality time trend and model, fm 2010 wk1 . . .	148
245	Females < 1 mortality time trend and model, fm 2019 wk1 . . .	149
246	Females < 1 mortality time trend and model, fm 2020 wk1 . . .	149
247	Females < 1 all-cause excess deaths, fm 2010 wk1	150
248	Females < 1 all-cause excess deaths, fm 2019 wk1	150
249	Females < 1 all-cause excess deaths, fm 2020 wk1	151

250	Females < 1 all-cause excess deaths minus COVID19, fm 2010 wk1	151
251	Females < 1 all-cause excess deaths minus COVID19, fm 2019 wk1	152
252	Females < 1 all-cause excess deaths minus COVID19, fm 2020 wk1	152
253	Females 01-14 mortality time trend and model, fm 2010 wk1	153
254	Females 01-14 mortality time trend and model, fm 2019 wk1	154
255	Females 01-14 mortality time trend and model, fm 2020 wk1	154
256	Females 01-14 all-cause excess deaths, fm 2010 wk1	155
257	Females 01-14 all-cause excess deaths, fm 2019 wk1	155
258	Females 01-14 all-cause excess deaths, fm 2020 wk1	156
259	Females 01-14 all-cause excess deaths (-COVID19), fm 2010 wk1	156
260	Females 01-14 all-cause excess deaths (-COVID19), fm 2019 wk1	157
261	Females 01-14 all-cause excess deaths (-COVID19), fm 2020 wk1	157
262	Females 15-44 mortality time trend and model, fm 2010 wk1	158
263	Females 15-44 mortality time trend and model, fm 2019 wk1	159
264	Females 15-44 mortality time trend and model, fm 2020 wk1	159
265	Females 15-44 all-cause excess deaths, fm 2010 wk1	160
266	Females 15-44 all-cause excess deaths, fm 2019 wk1	160
267	Females 15-44 all-cause excess deaths, fm 2020 wk1	161
268	Females 15-44 all-cause excess deaths (-COVID19), fm 2010 wk1	161
269	Females 15-44 all-cause excess deaths (-COVID19), fm 2019 wk1	162
270	Females 15-44 all-cause excess deaths (-COVID19), fm 2020 wk1	162
271	Females 45-64 mortality time trend and model, fm 2010 wk1	163
272	Females 45-64 mortality time trend and model, fm 2019 wk1	164
273	Females 45-64 mortality time trend and model, fm 2020 wk1	164
274	Females 45-64 all-cause excess deaths, fm 2010 wk1	165
275	Females 45-64 all-cause excess deaths, fm 2019 wk1	165
276	Females 45-64 all-cause excess deaths, fm 2020 wk1	166
277	Females 45-64 all-cause excess deaths (-COVID19), fm 2010 wk1	166
278	Females 45-64 all-cause excess deaths (-COVID19), fm 2019 wk1	167
279	Females 45-64 all-cause excess deaths (-COVID19), fm 2020 wk1	167
280	Females 65-74 mortality time trend and model, fm 2010 wk1	168
281	Females 65-74 mortality time trend and model, fm 2019 wk1	169
282	Females 65-74 mortality time trend and model, fm 2020 wk1	169
283	Females 65-74 all-cause excess deaths, fm 2010 wk1	170
284	Females 65-74 all-cause excess deaths, fm 2019 wk1	170
285	Females 65-74 all-cause excess deaths, fm 2020 wk1	171
286	Females 65-74 all-cause excess deaths (-COVID19), fm 2010 wk1	171
287	Females 65-74 all-cause excess deaths (-COVID19), fm 2019 wk1	172
288	Females 65-74 all-cause excess deaths (-COVID19), fm 2020 wk1	172
289	Females 75-84 mortality time trend and model, fm 2010 wk1	173
290	Females 75-84 mortality time trend and model, fm 2019 wk1	174
291	Females 75-84 mortality time trend and model, fm 2020 wk1	174
292	Females 75-84 all-cause excess deaths, fm 2010 wk1	175
293	Females 75-84 all-cause excess deaths, fm 2019 wk1	175
294	Females 75-84 all-cause excess deaths, fm 2020 wk1	176
295	Females 75-84 all-cause excess deaths (-COVID19), fm 2010 wk1	176

296	Females 75-84 all-cause excess deaths (–COVID19), fm 2019 wk1	177
297	Females 75-84 all-cause excess deaths (–COVID19), fm 2020 wk1	177
298	Females 85+ mortality time trend and model, fm 2010 wk1 . . .	178
299	Females 85+ mortality time trend and model, fm 2019 wk1 . . .	179
300	Females 85+ mortality time trend and model, fm 2020 wk1 . . .	179
301	Females 85+ all-cause excess deaths, fm 2010 wk1	180
302	Females 85+ all-cause excess deaths, fm 2019 wk1	180
303	Females 85+ all-cause excess deaths, fm 2020 wk1	181
304	Females 85+ all-cause excess deaths (–COVID19), fm 2010 wk1	181
305	Females 85+ all-cause excess deaths (–COVID19), fm 2019 wk1	182
306	Females 85+ all-cause excess deaths (–COVID19), fm 2020 wk1	182

1 England-Wales aggregates, per 100k population

1.1 Time trend

Figure 1: Mortality time trend, from 2010 week 1

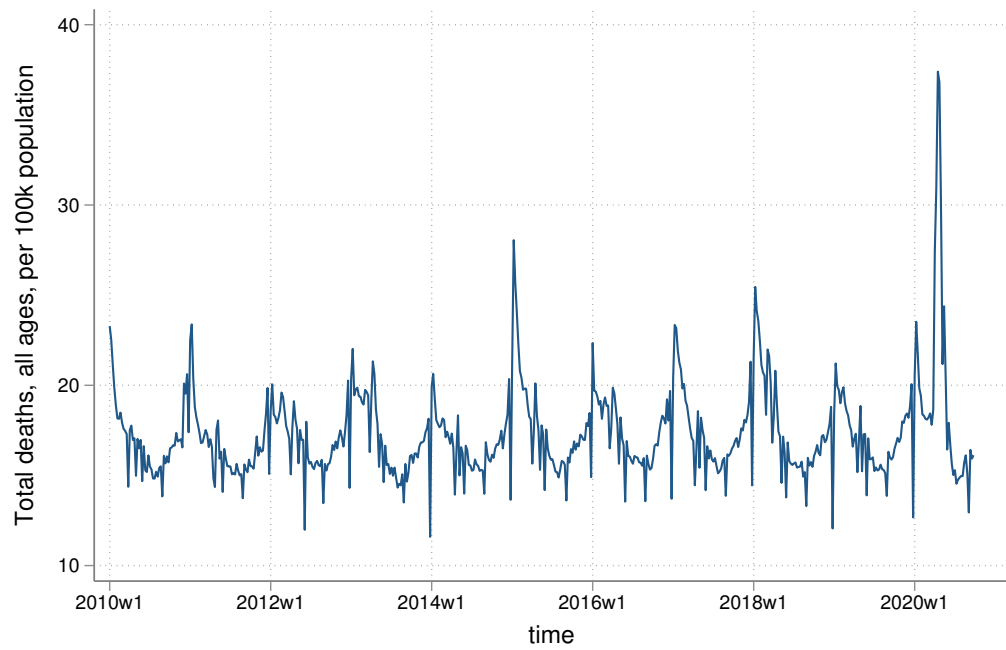


Figure 2: Mortality time trend, from 2019 week 1

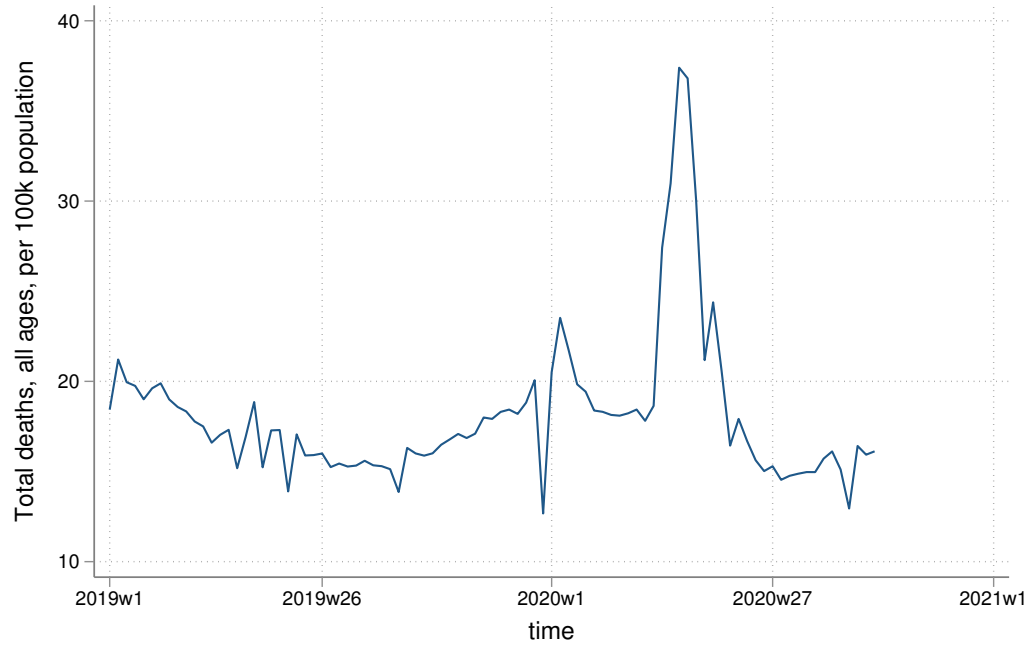
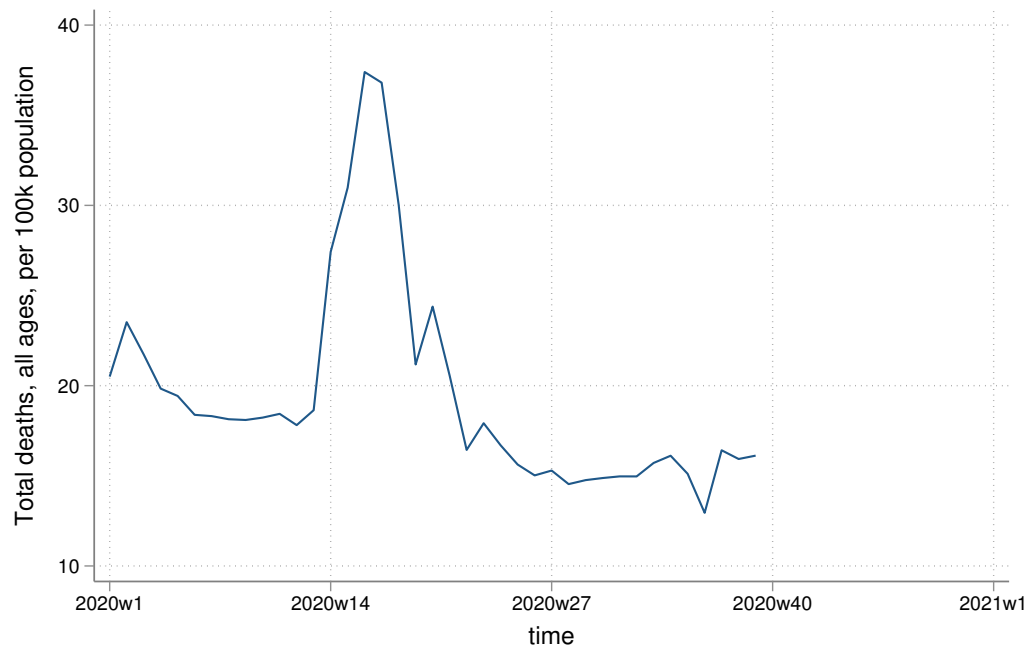


Figure 3: Mortality time trend, from 2020 week 1



1.2 Time trend and Negative Binomial Regression model

Figure 4: Mortality time trend and model, from 2010 week 1

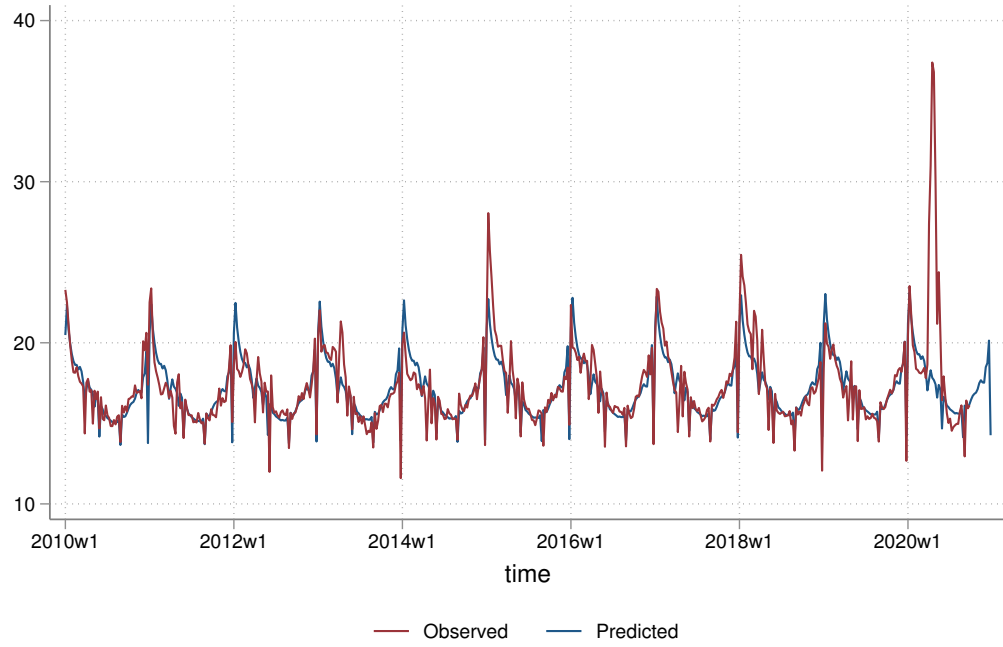


Figure 5: Mortality time trend and model, from 2019 week 1

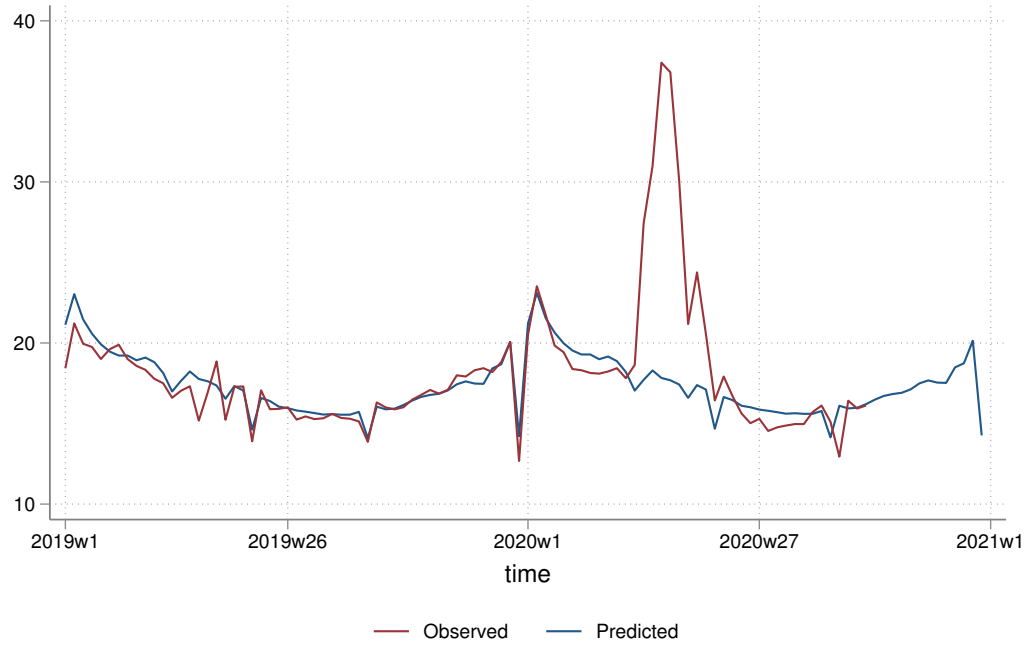
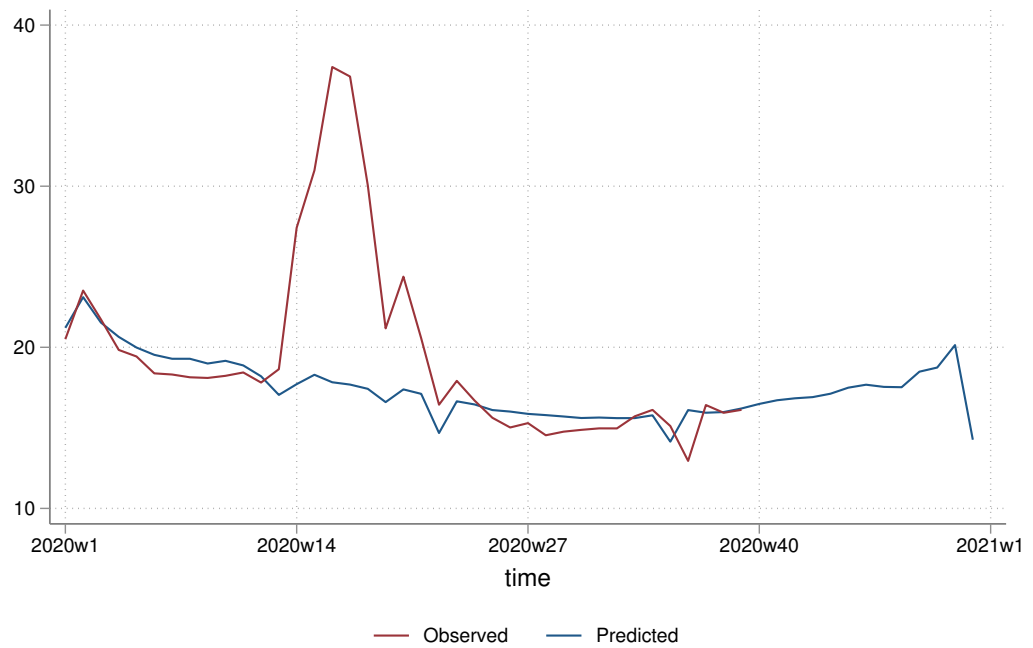


Figure 6: Mortality time trend and model, from 2020 week 1



1.3 Excess number of deaths: all causes

Figure 7: All-cause excess deaths, from 2010 week 1

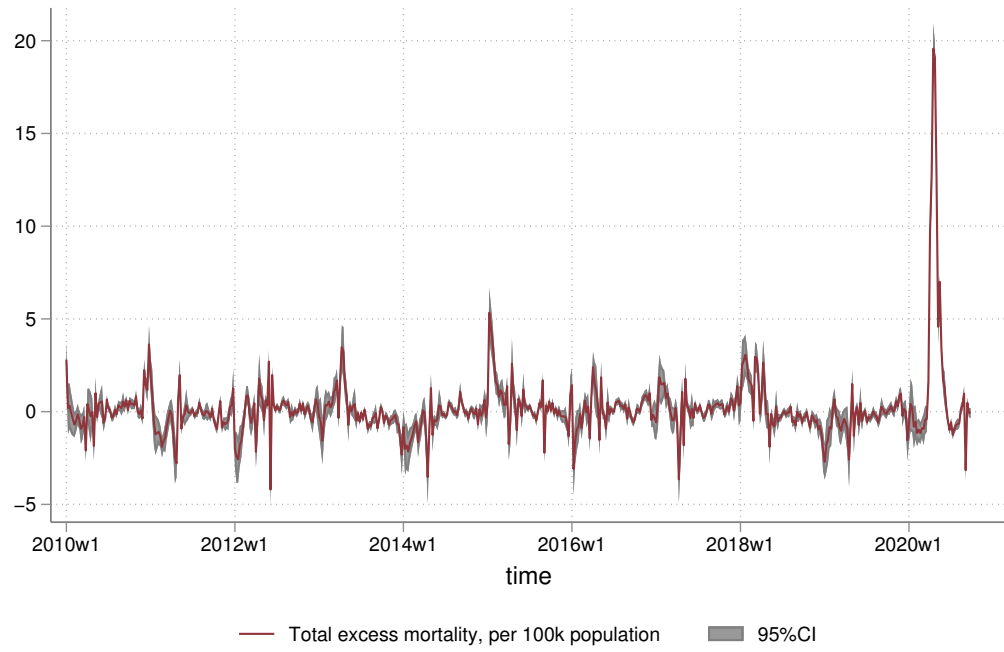


Figure 8: All-cause excess deaths, from 2019 week 1

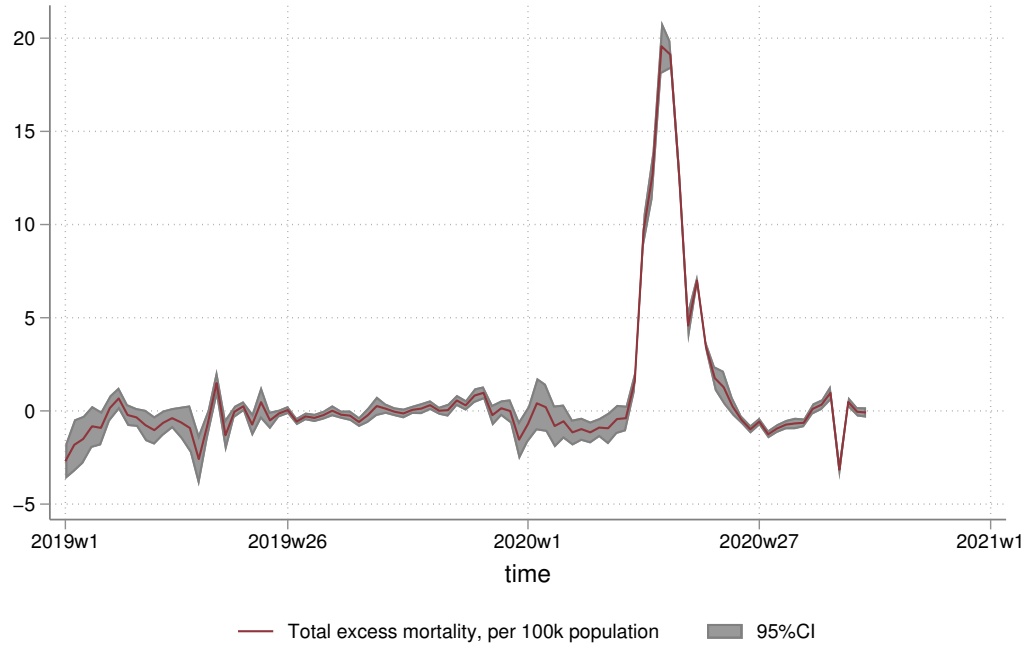
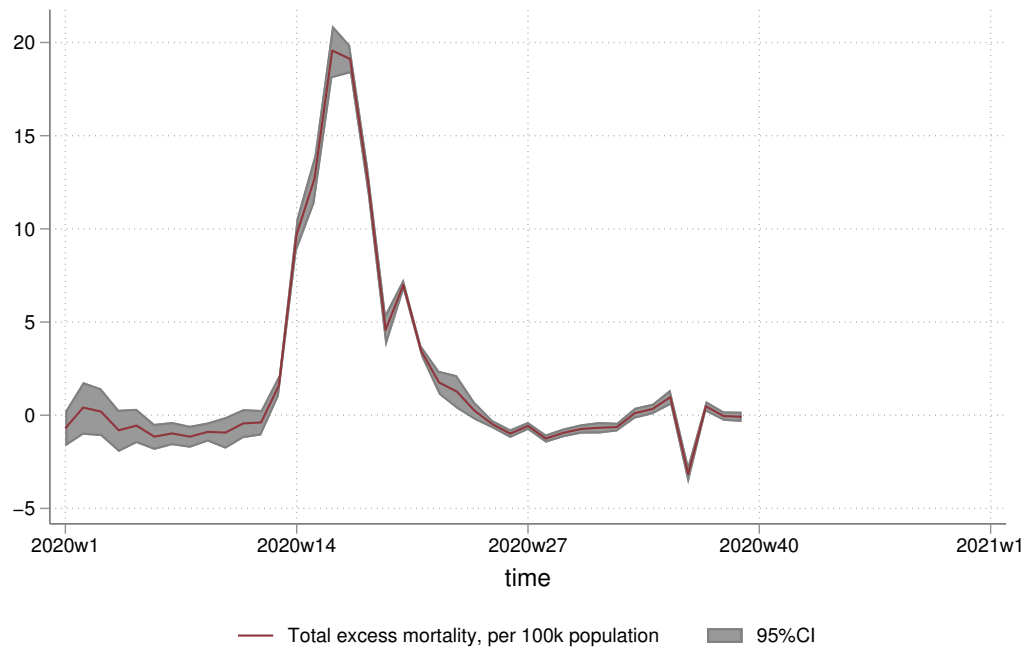


Figure 9: All-cause excess deaths, from 2020 week 1



1.4 Excess number of deaths: all causes minus COVID19 deaths

Excluding deaths where COVID19 was mentioned in the death certificate (ICD10 U07.1 and U07.2). A condition mentioned in the death certificate may be the main reason or a contributory reason to the cause of death.

Figure 10: All-cause excess deaths minus COVID19, from 2010 week 1

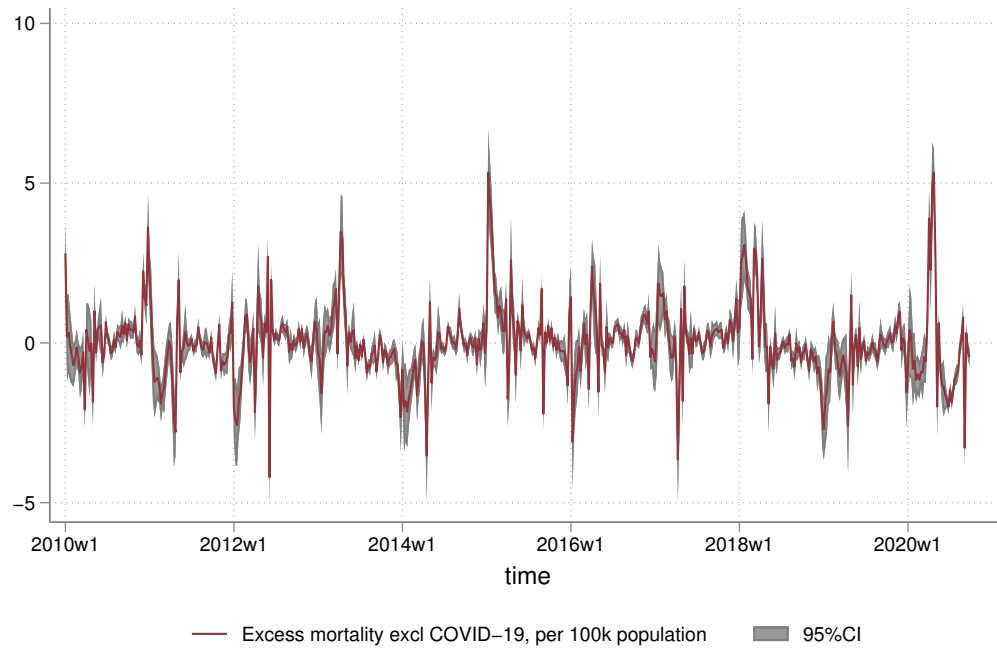


Figure 11: All-cause excess deaths minus COVID19, from 2019 week 1

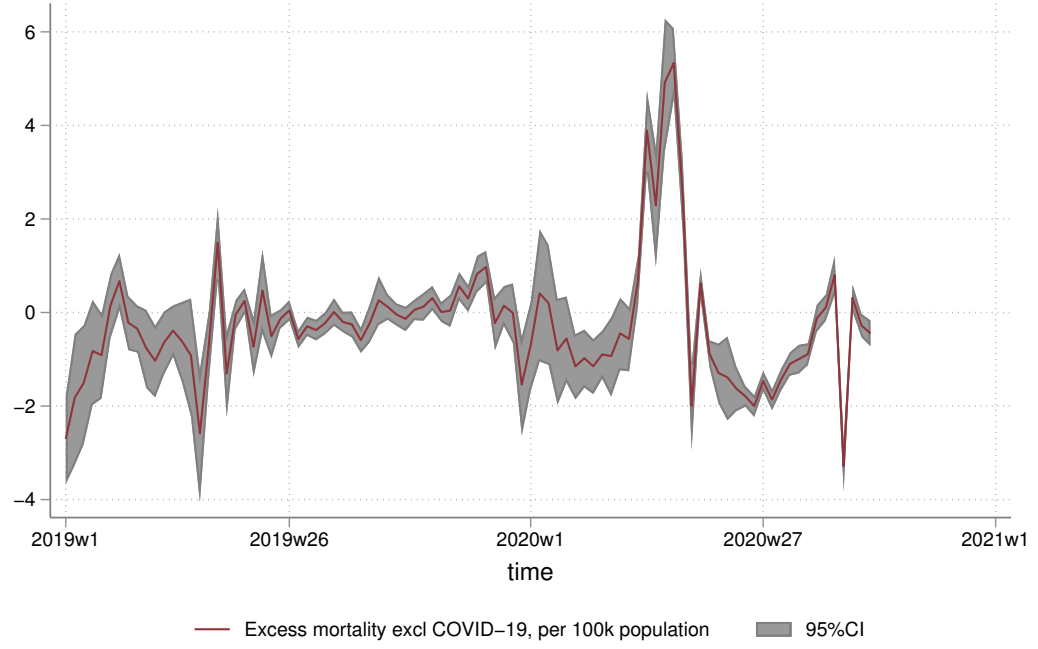
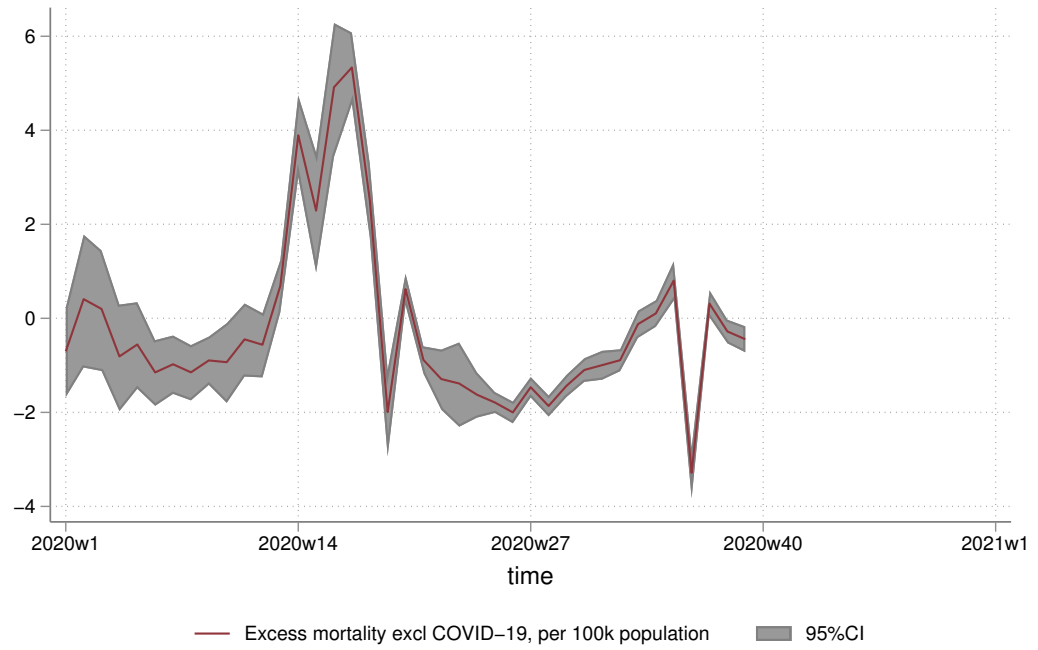


Figure 12: All-cause excess deaths minus COVID19, from 2020 week 1



1.5 Excess number of deaths: all causes minus respiratory deaths

Excluding deaths where the underlying cause of death has been recorded as respiratory (ICD-10 codes J00-J99), and excluded deaths at age under 28 days. Underlying cause of death, as reported in England and Wales, is compatible with WHO recommendations using ICD rules (with small changes in 2011 and 2014), and is obtained from the death certificate. The underlying cause of death is defined by the WHO as the disease or injury that initiated the series of events that led directly to death, or the circumstances of the accident or violence that produced the fatal injury (ONS 2020).

Figure 13: All-cause excess deaths minus COVID19, from 2010 week 1

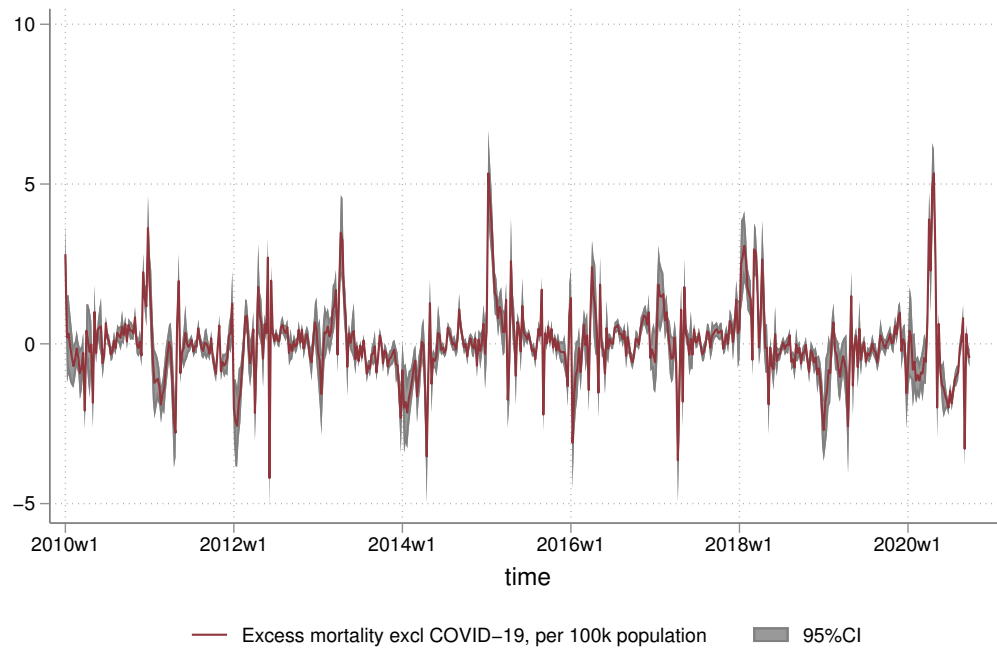


Figure 14: All-cause excess deaths minus COVID19, from 2019 week 1

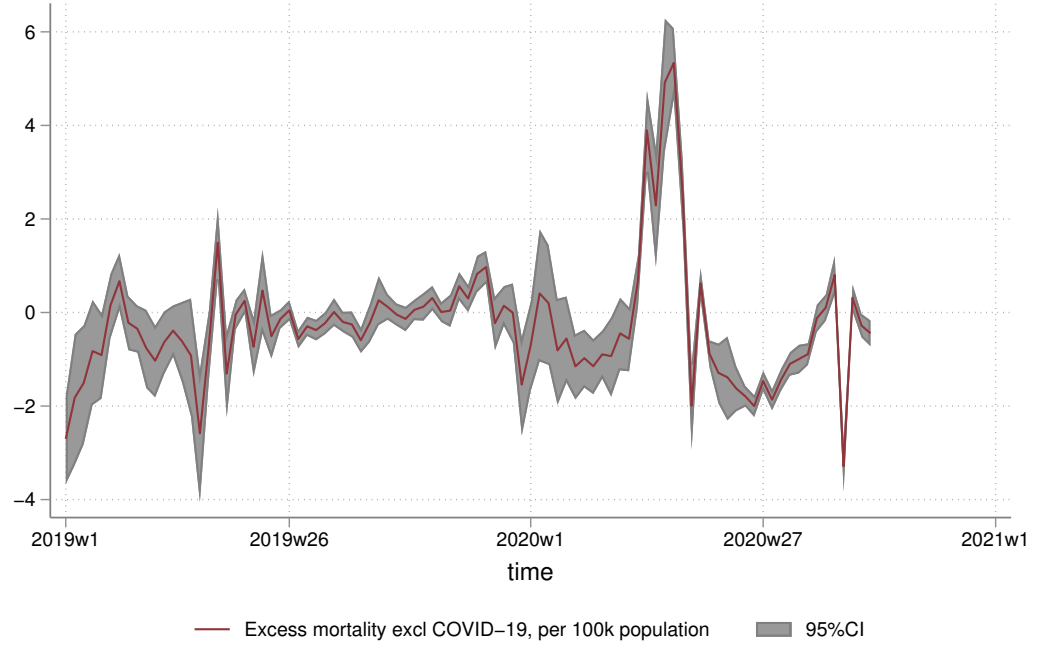
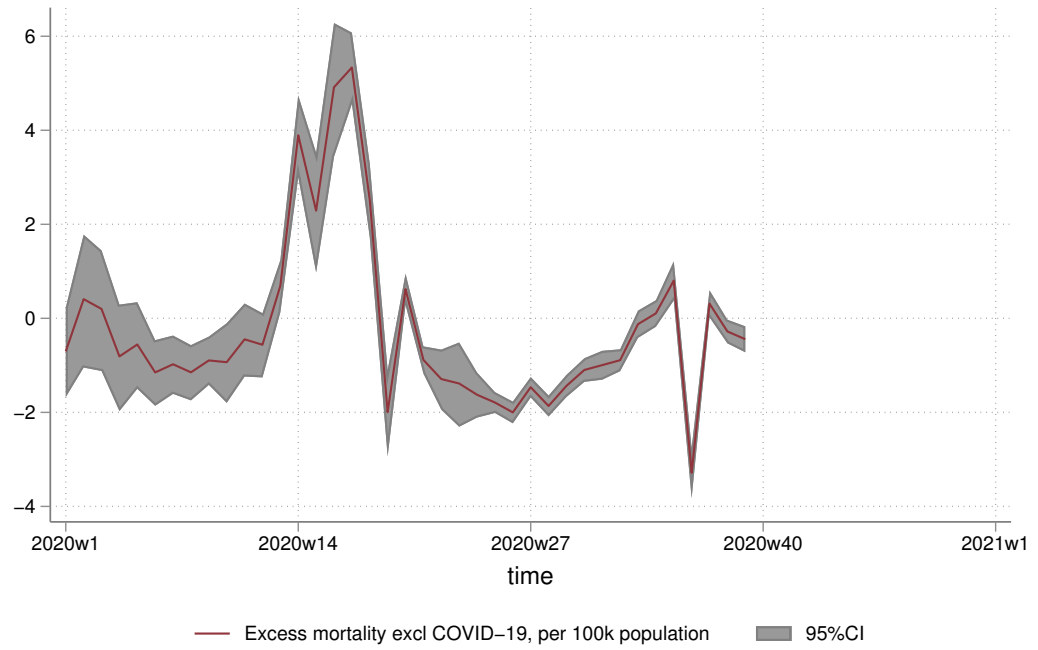


Figure 15: All-cause excess deaths minus COVID19, from 2020 week 1



2 Regional, per 100k population

2.1 Time trends

Figure 16: Regional mortality time trends, from 2010 week 1

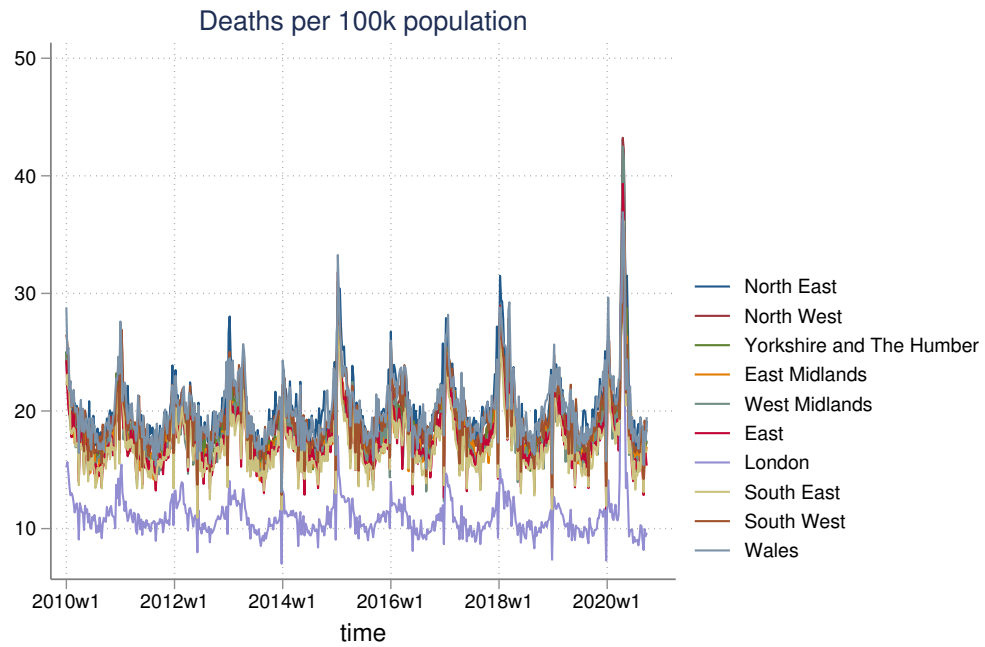


Figure 17: Regional mortality time trends, from 2019 week 1

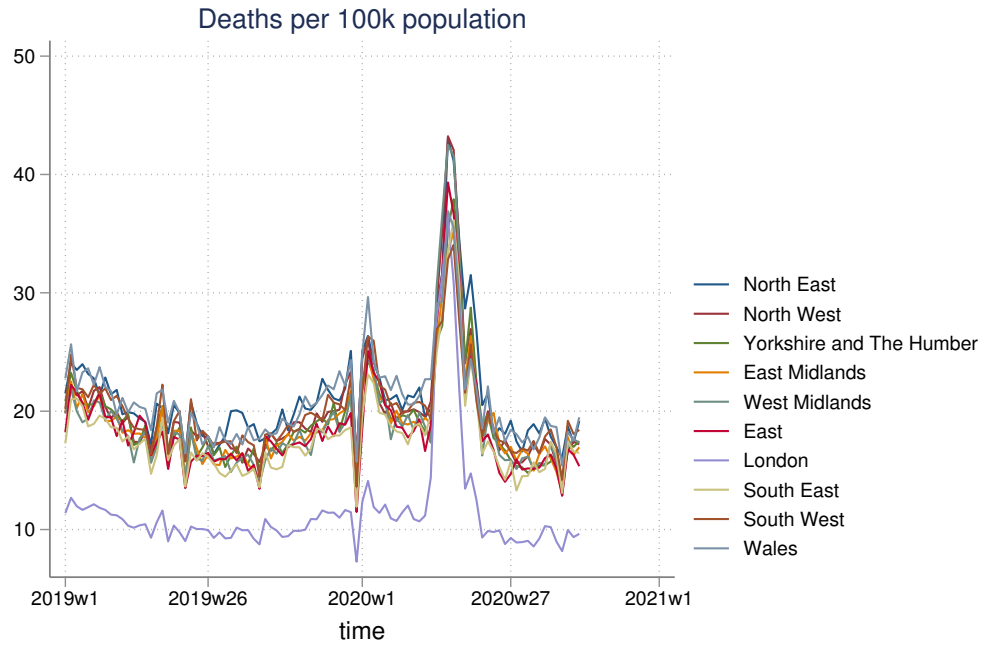
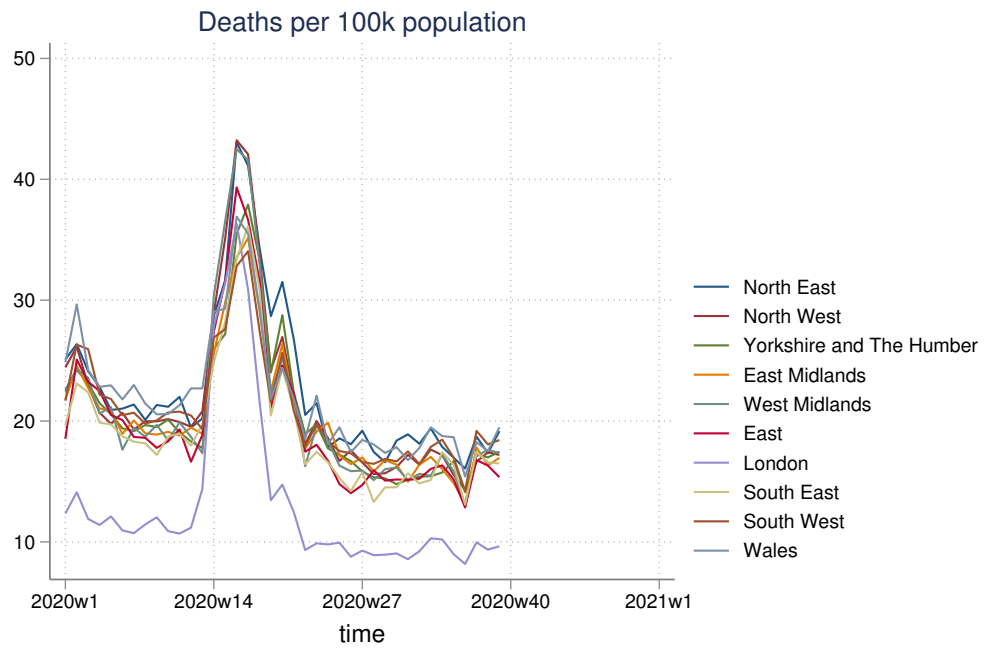


Figure 18: Regional mortality time trends, from 2020 week 1



2.2 North East

Figure 19: NE Mortality time trend and model, from 2010 week 1

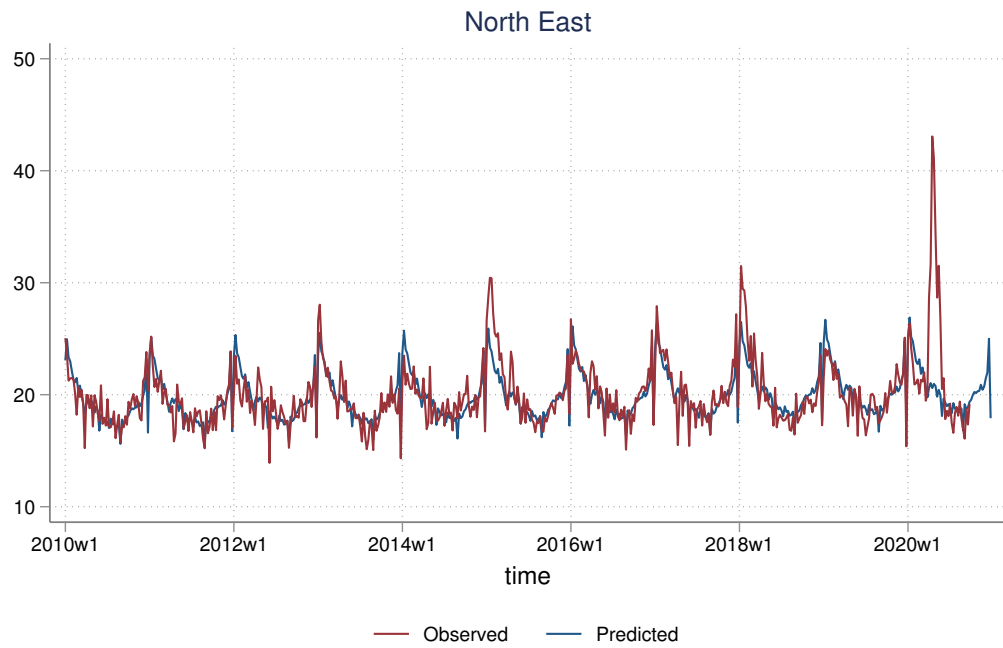


Figure 20: NE Mortality time trend and model, from 2019 week 1

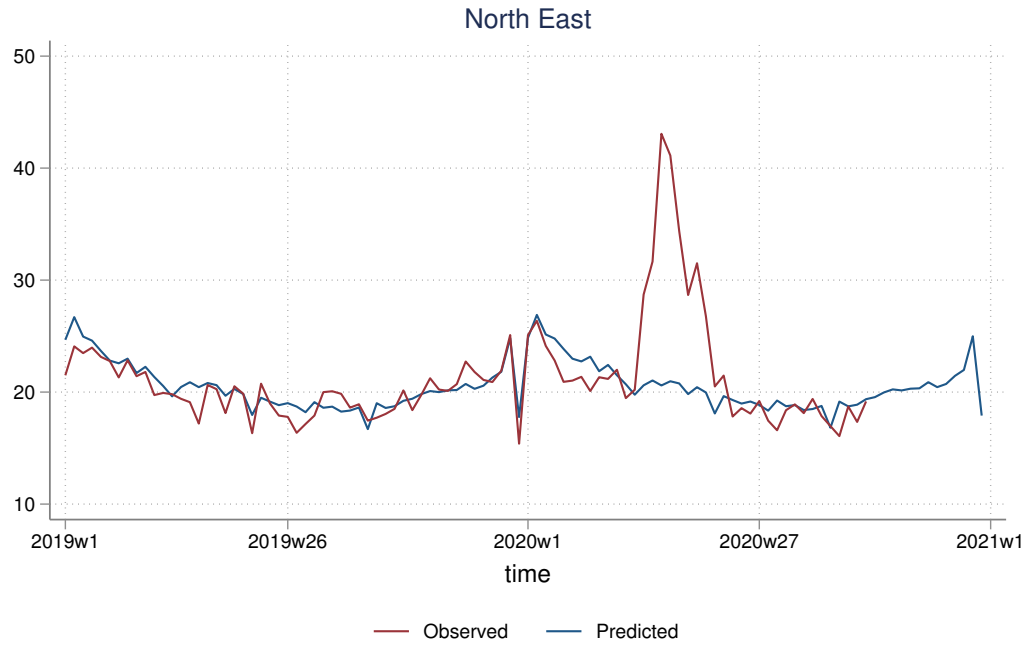


Figure 21: NE Mortality time trend and model, from 2020 week 1

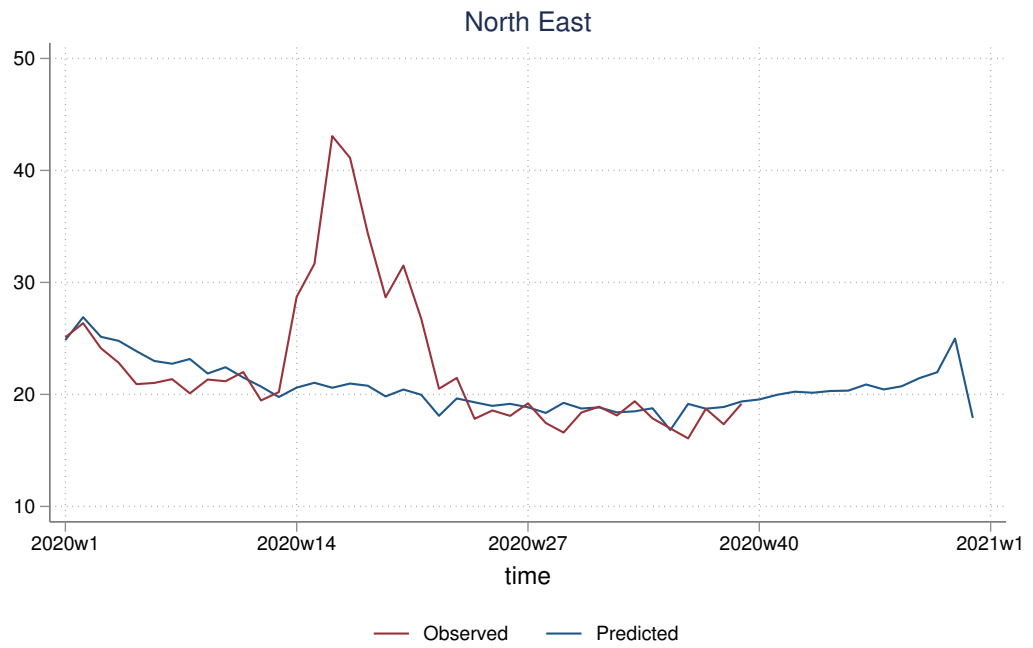


Figure 22: NE all-cause excess deaths, from 2010 week 1

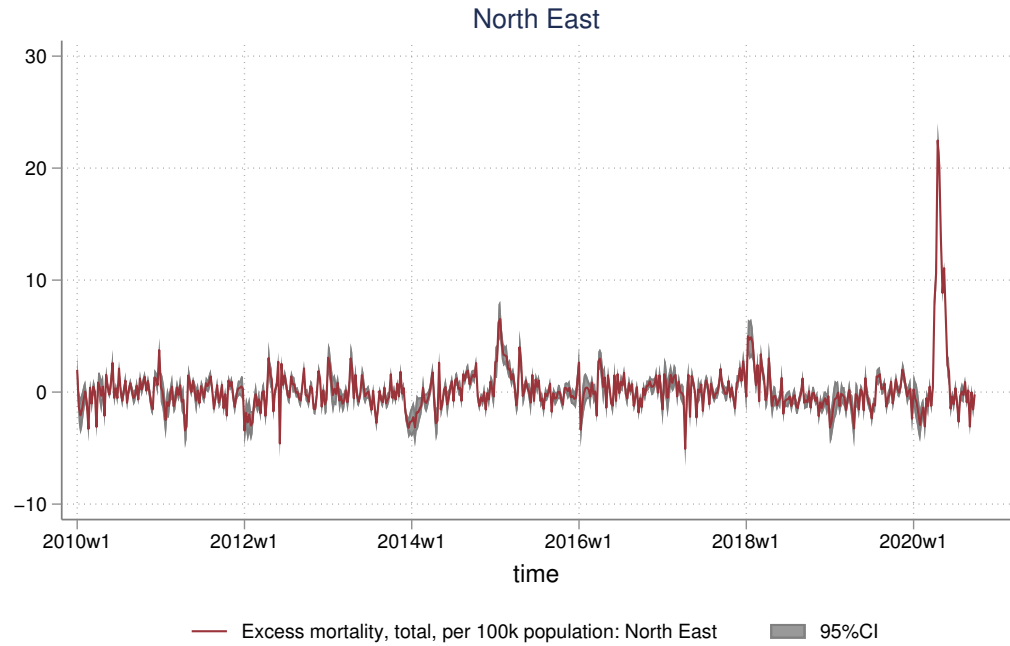


Figure 23: NE all-cause excess deaths, from 2019 week 1

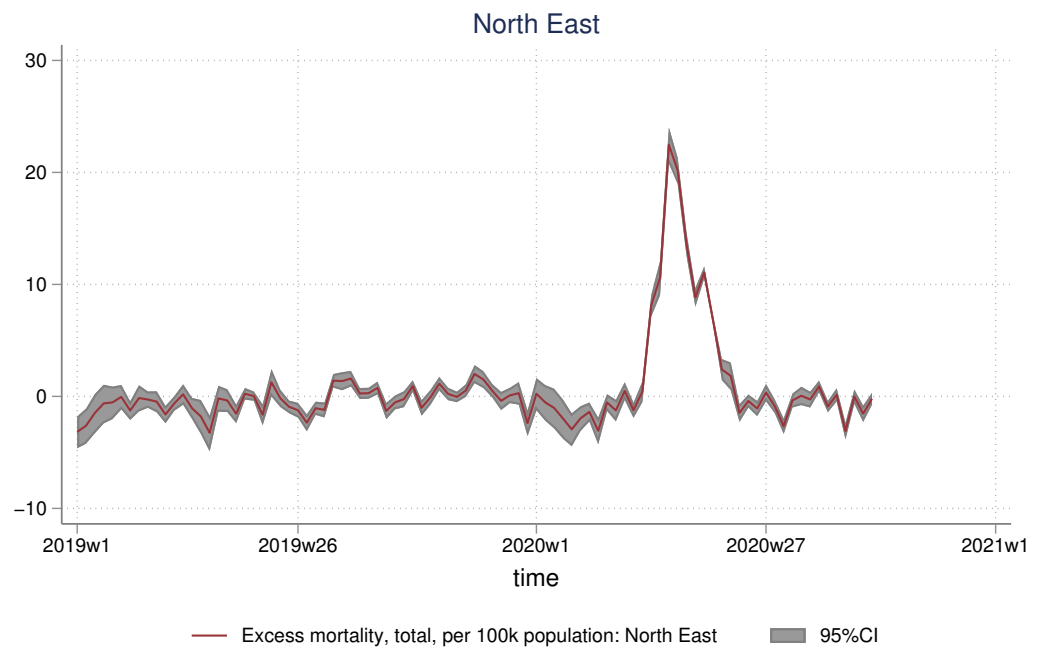


Figure 24: NE all-cause excess deaths, from 2020 week 1

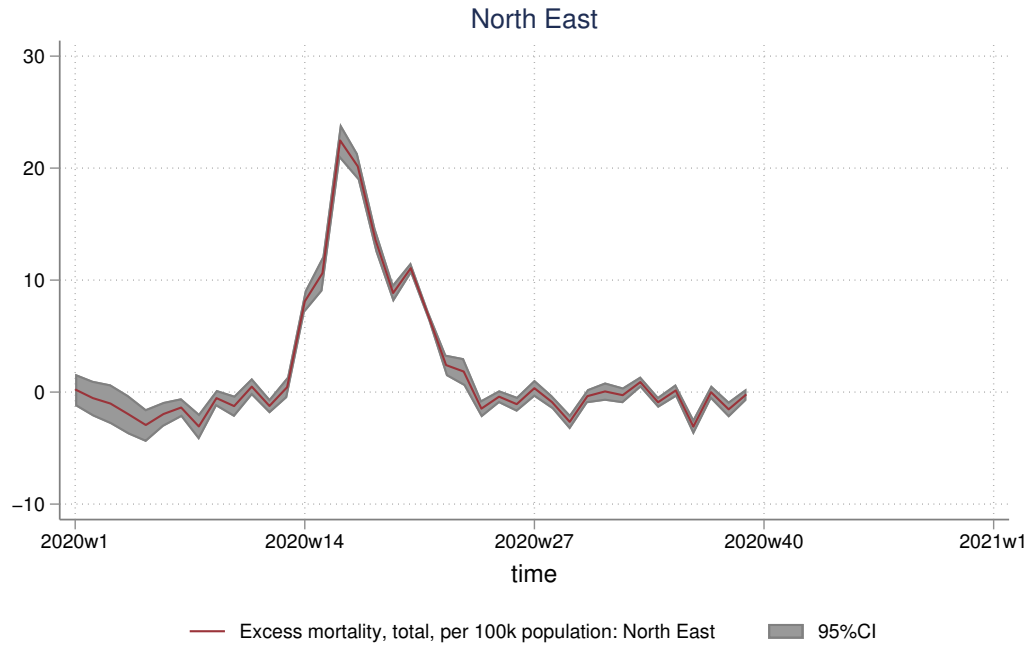


Figure 25: NE all-cause excess deaths minus COVID19, from 2010 week 1

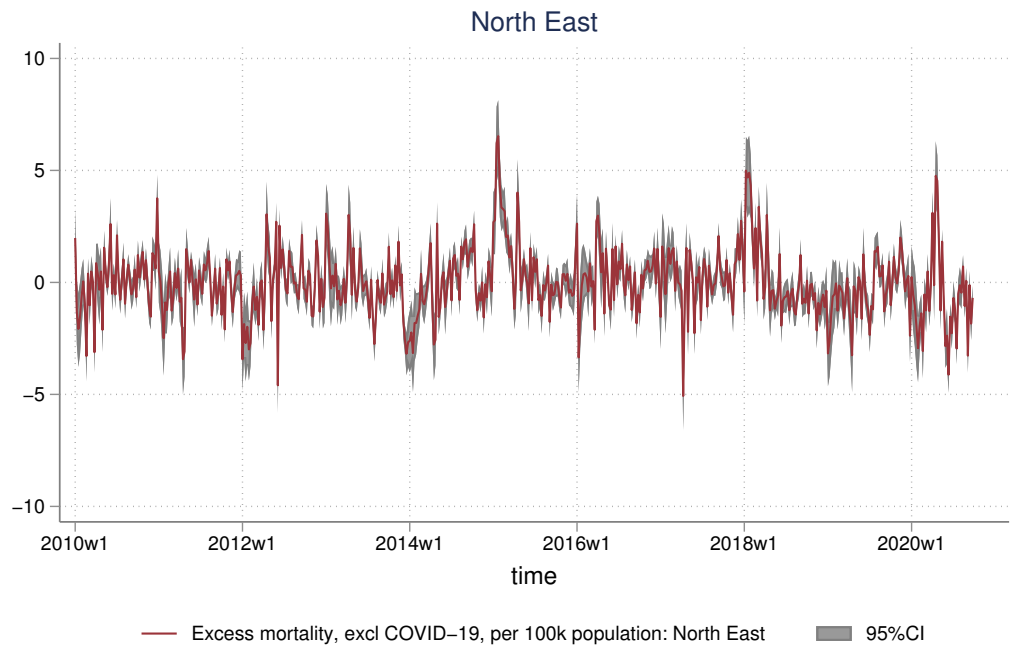


Figure 26: NE all-cause excess deaths minus COVID19, from 2019 week 1

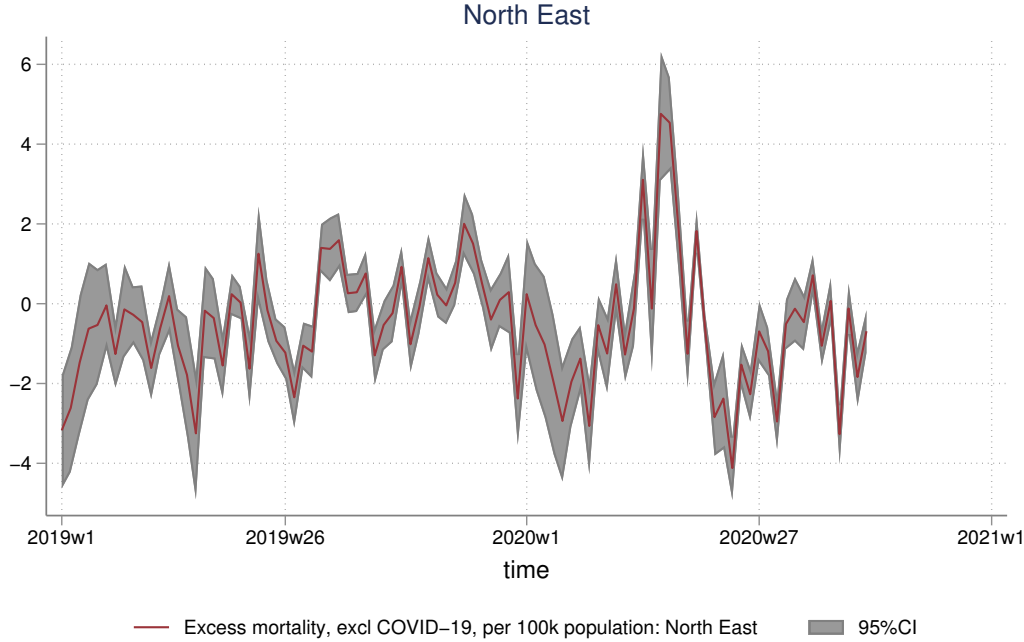
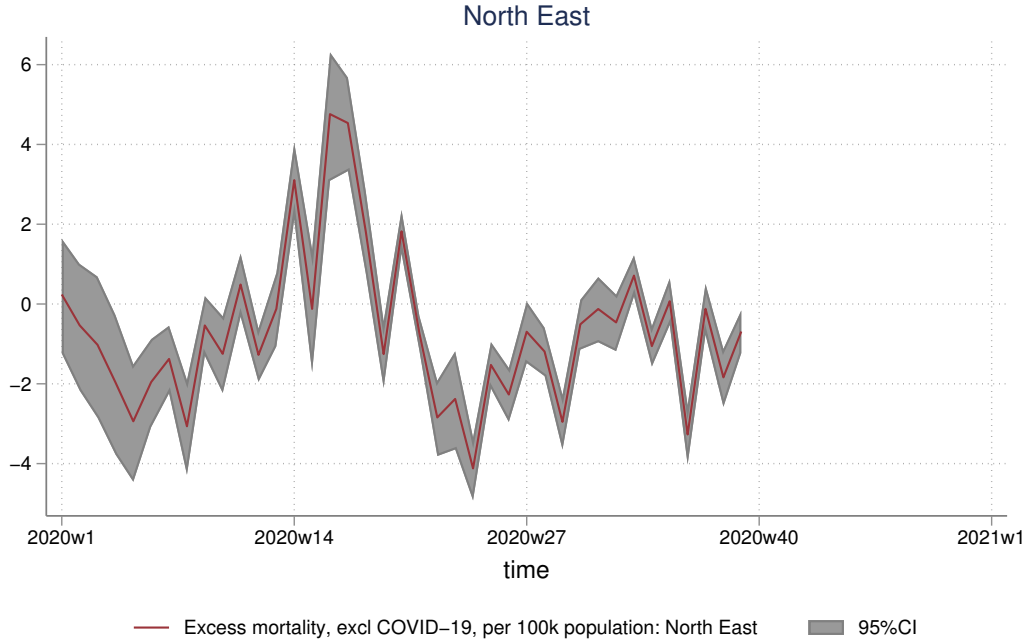


Figure 27: NE all-cause excess deaths minus COVID19, from 2020 week 1



2.3 North West

Figure 28: NW Mortality time trend and model, from 2010 week 1

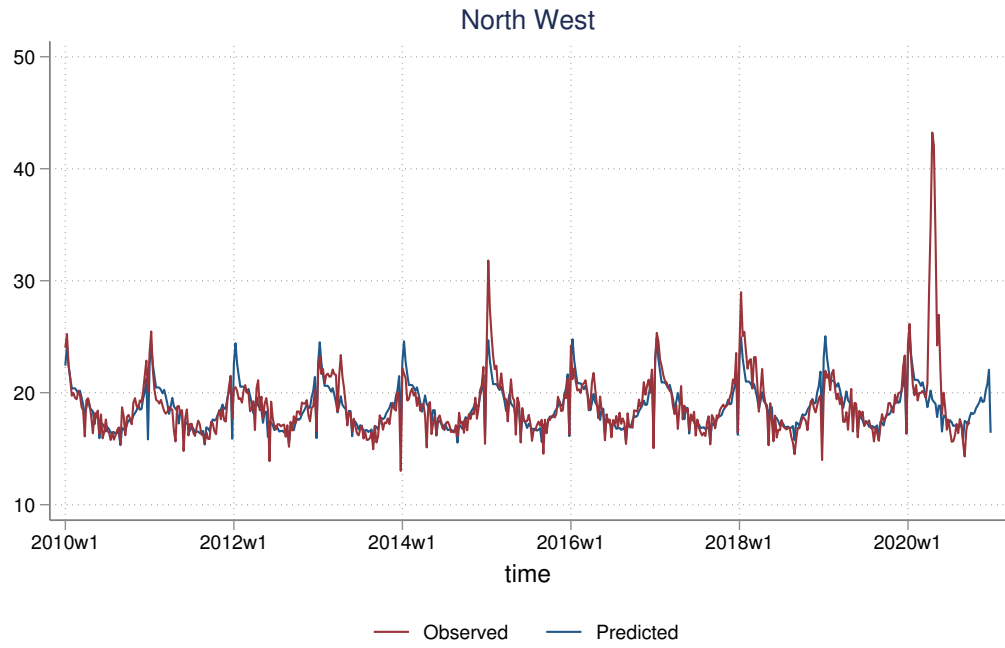


Figure 29: NW Mortality time trend and model, from 2019 week 1

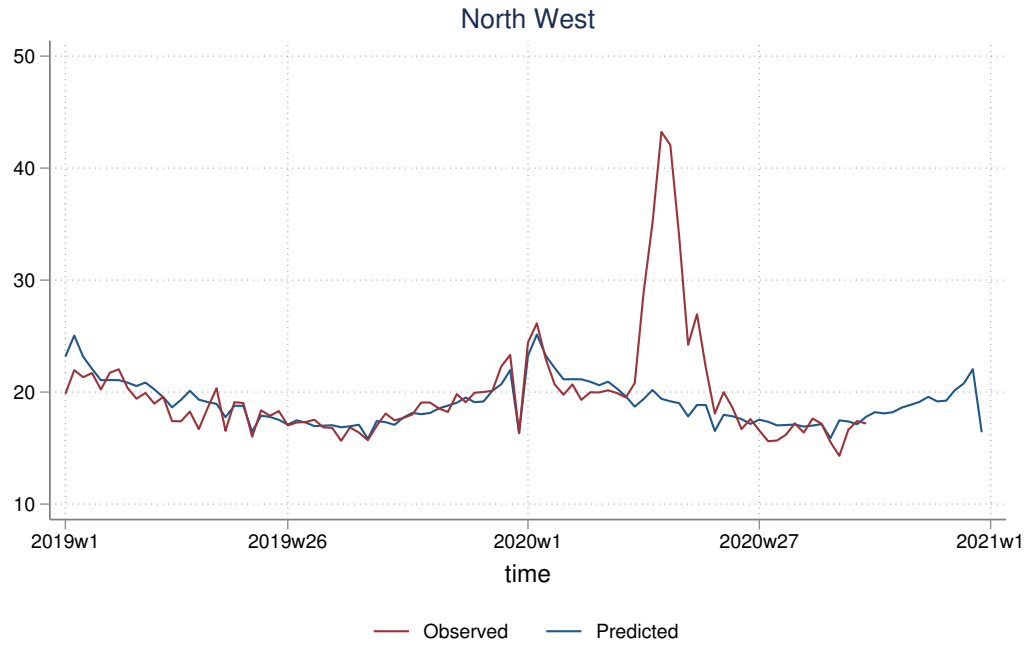


Figure 30: NW Mortality time trend and model, from 2020 week 1

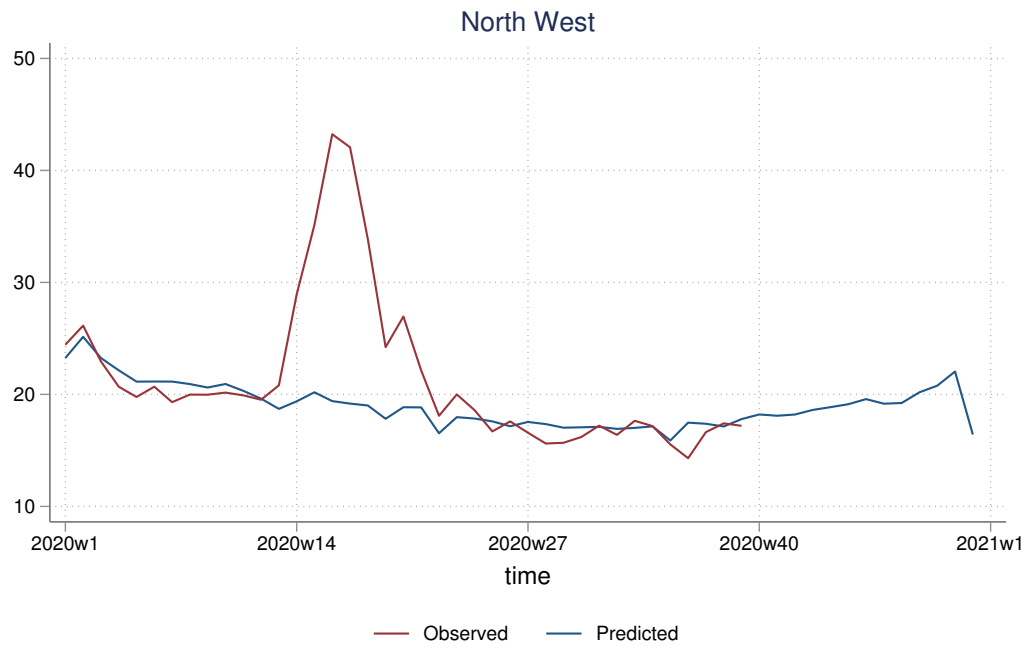


Figure 31: NW all-cause excess deaths, from 2010 week 1

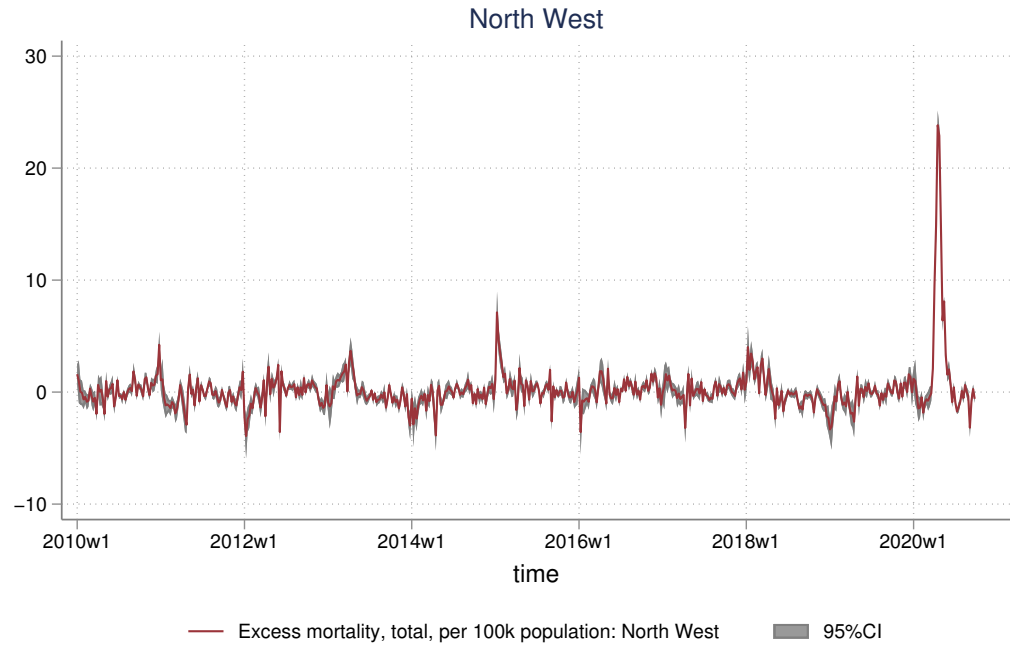


Figure 32: NW all-cause excess deaths, from 2019 week 1

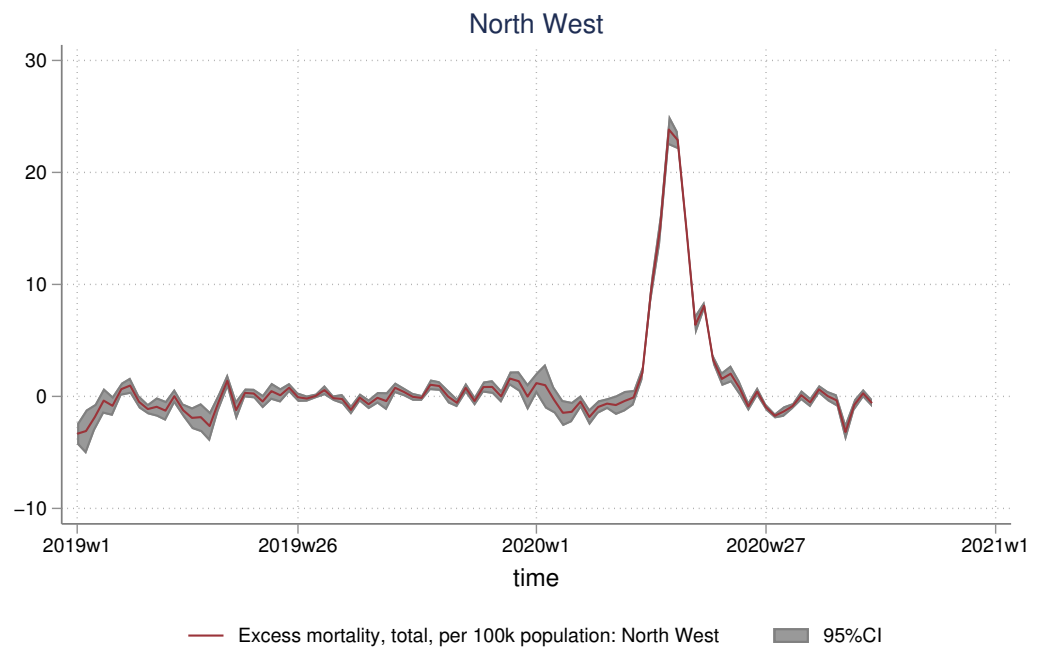


Figure 33: NW all-cause excess deaths, from 2020 week 1

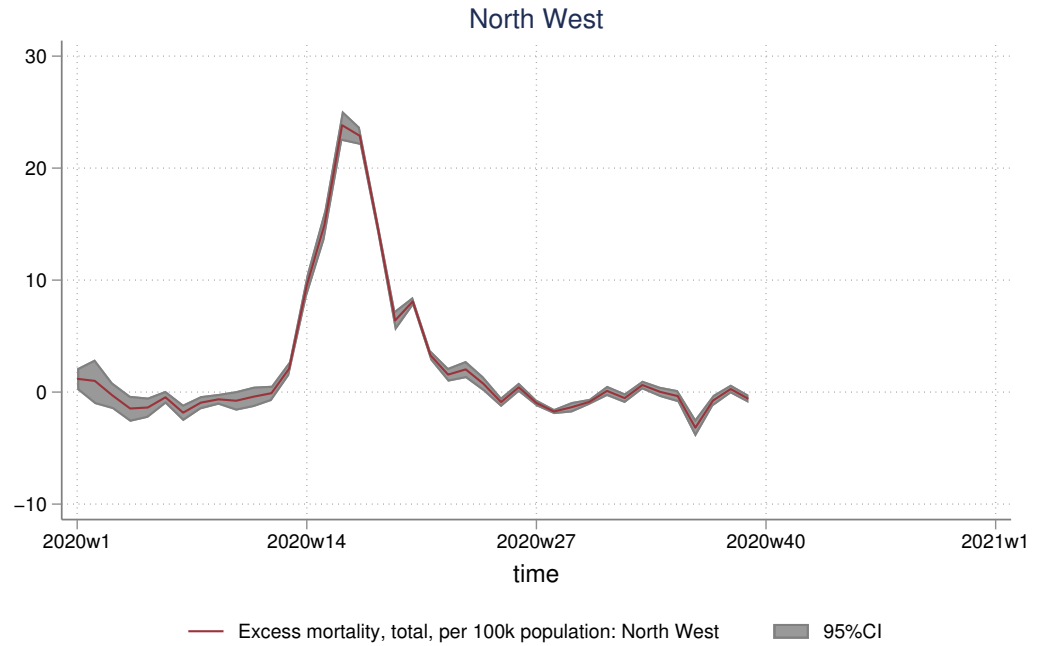


Figure 34: NW all-cause excess deaths minus COVID19, from 2010 week 1

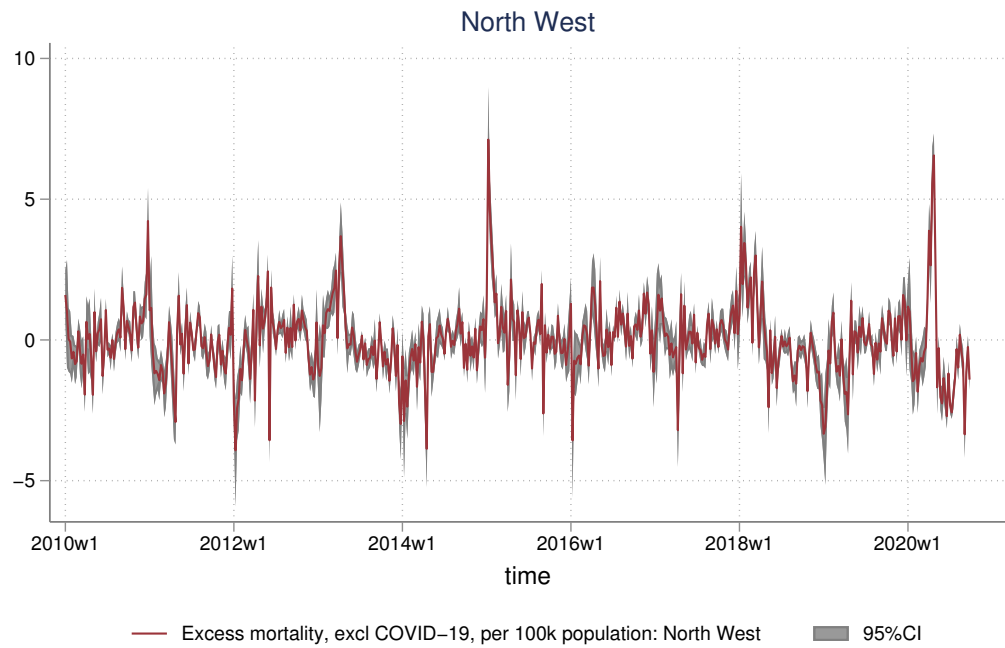


Figure 35: NW all-cause excess deaths minus COVID19, from 2019 week 1

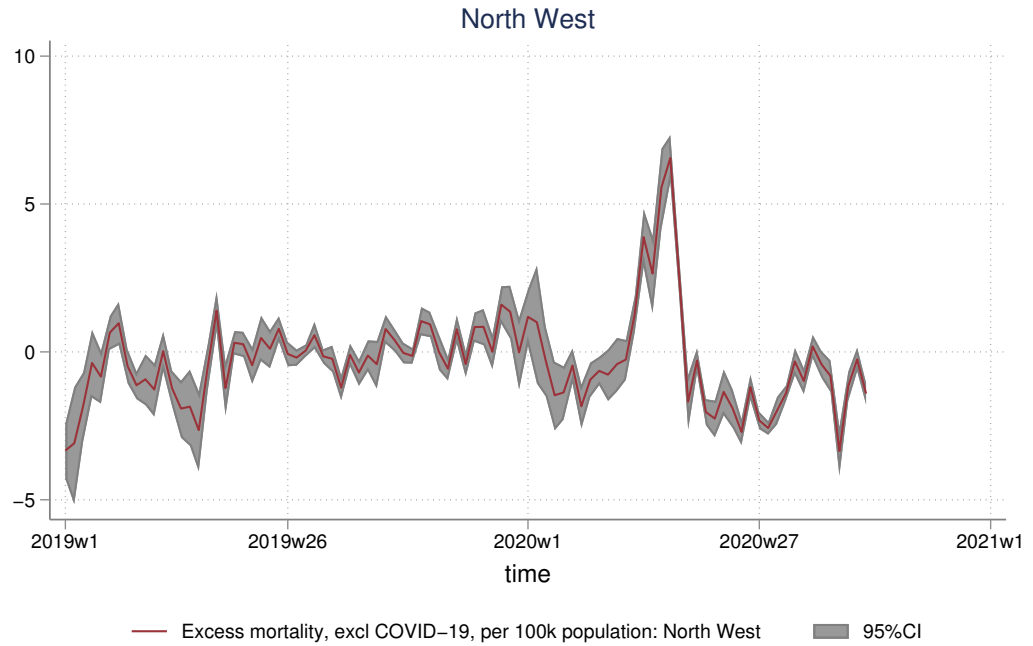
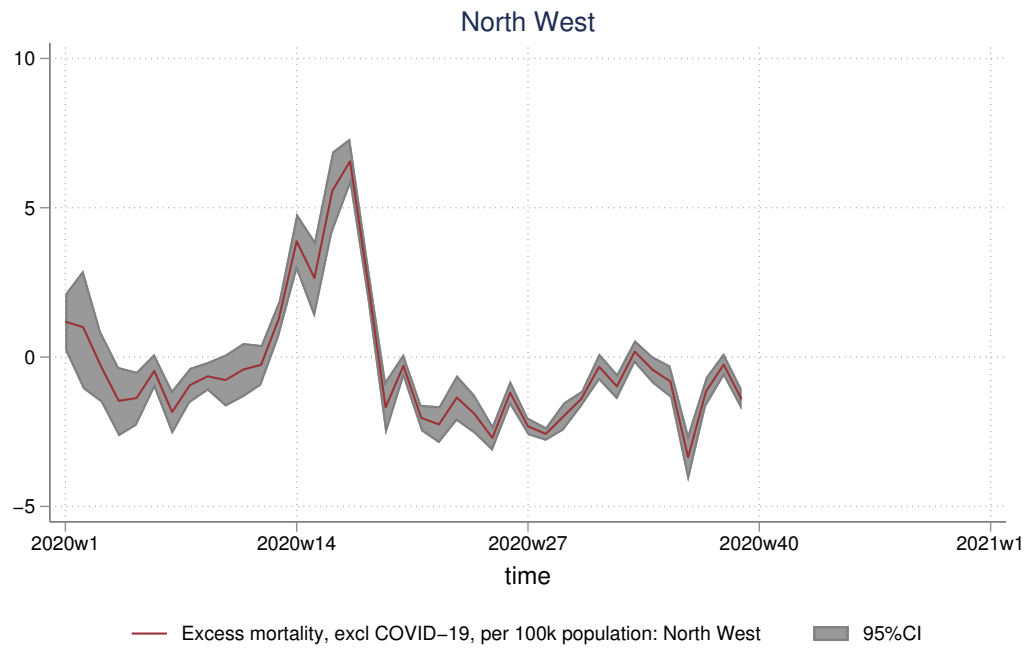


Figure 36: NW all-cause excess deaths minus COVID19, from 2020 week 1



2.4 Yorkshire and the Humber

Figure 37: Yath Mortality time trend and model, from 2010 week 1

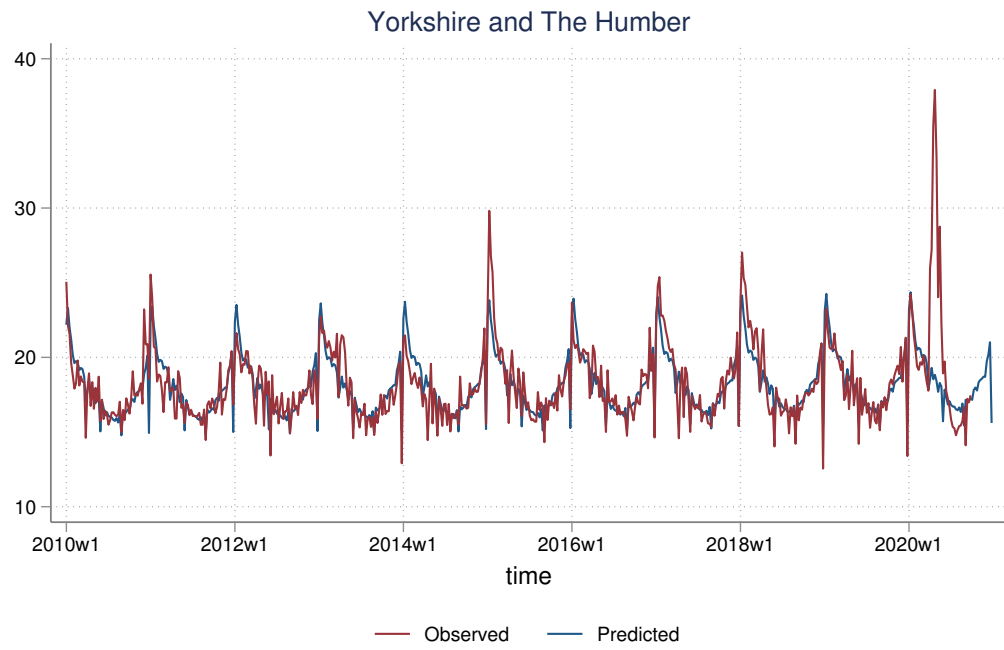


Figure 38: YathMortality time trend and model, from 2019 week 1

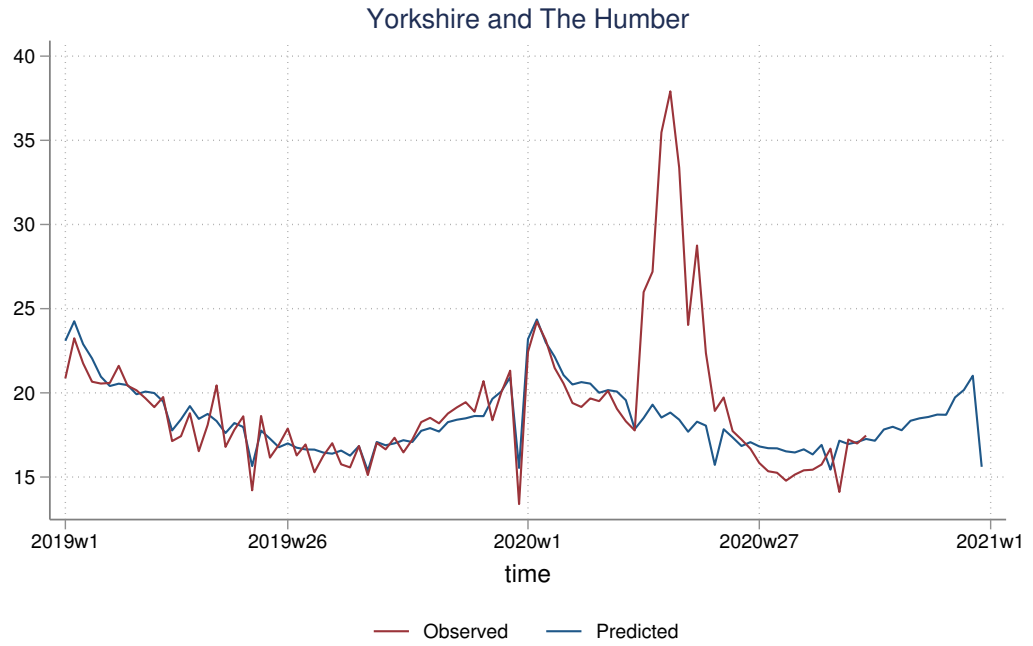


Figure 39: YathMortality time trend and model, from 2020 week 1

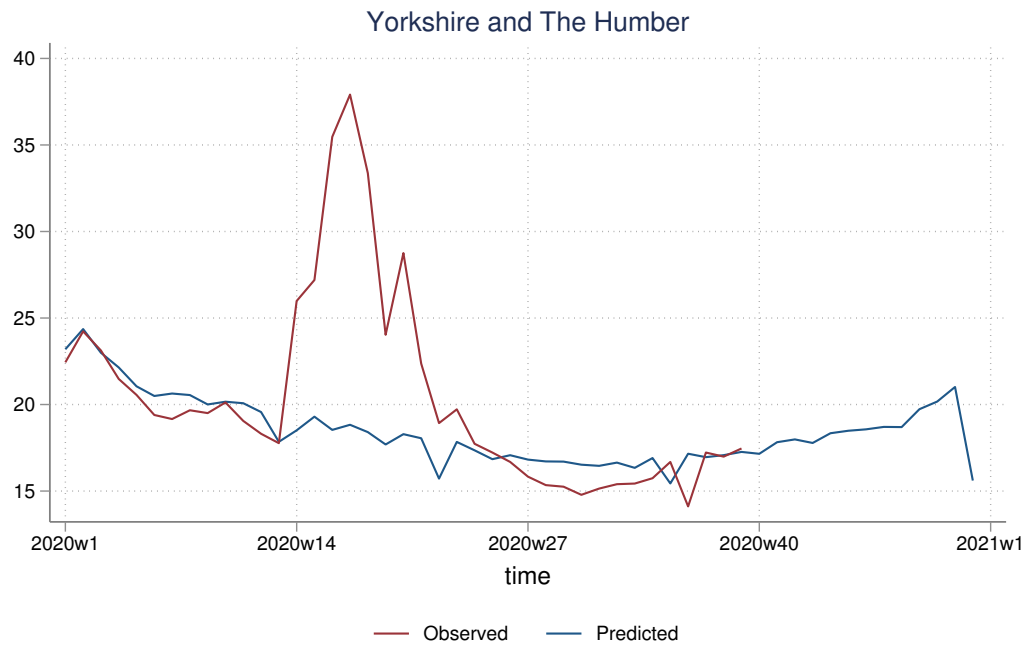


Figure 40: YatH all-cause excess deaths, from 2010 week 1

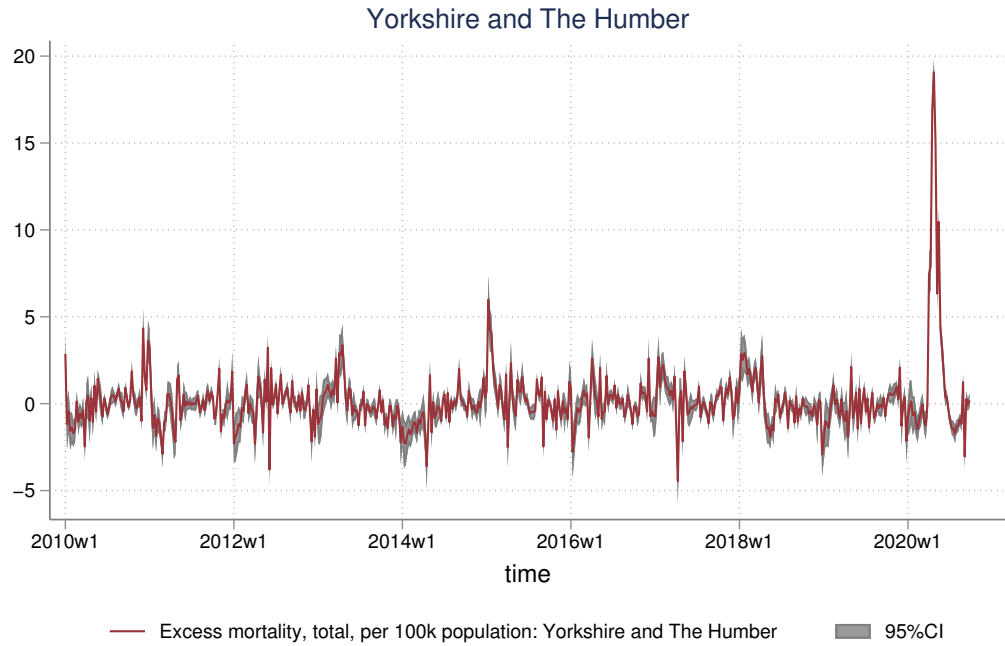


Figure 41: YatH all-cause excess deaths, from 2019 week 1

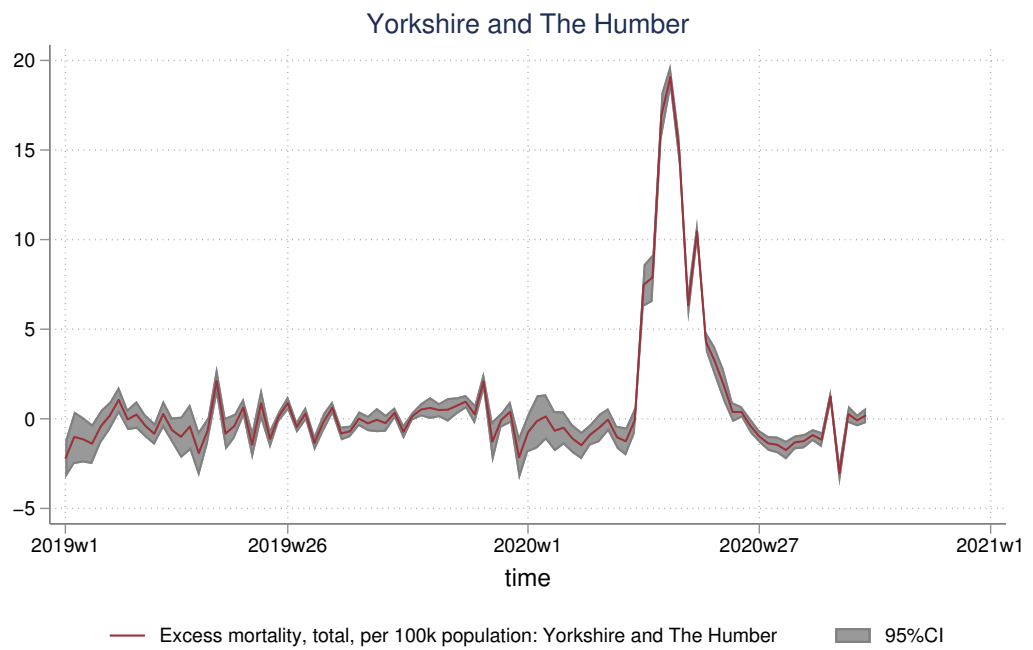


Figure 42: YatH all-cause excess deaths, from 2020 week 1

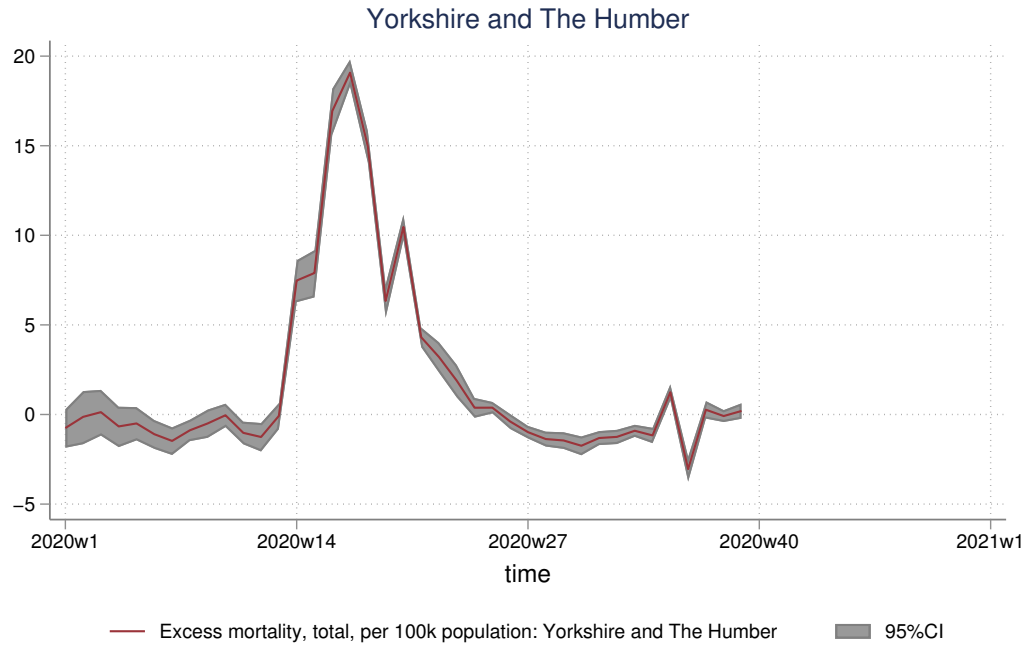


Figure 43: YatH all-cause excess deaths minus COVID19, from 2010 week 1

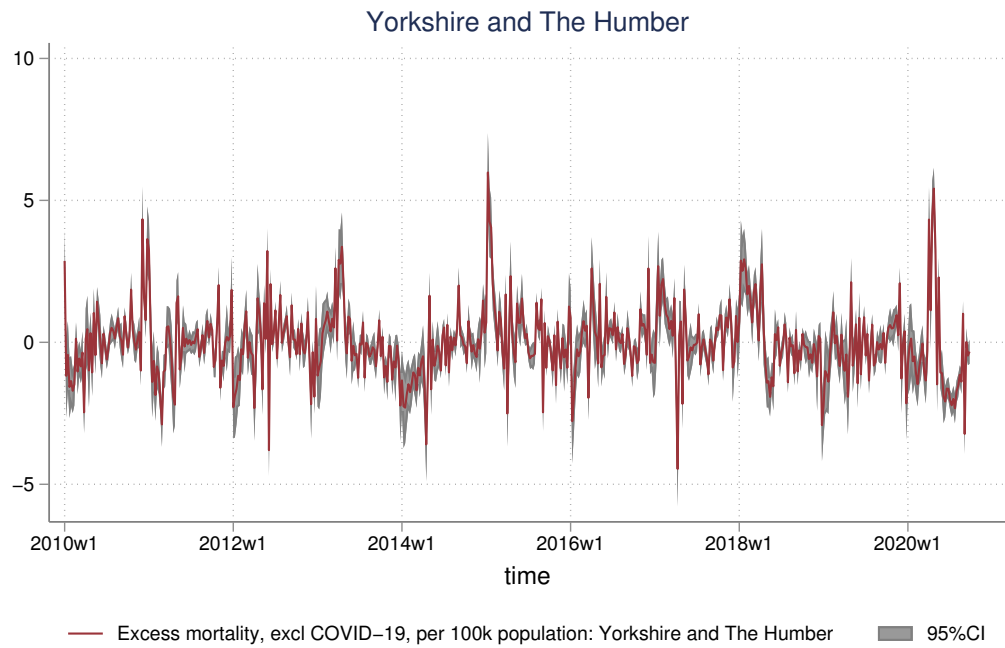


Figure 44: YatH all-cause excess deaths minus COVID19, from 2019 week 1

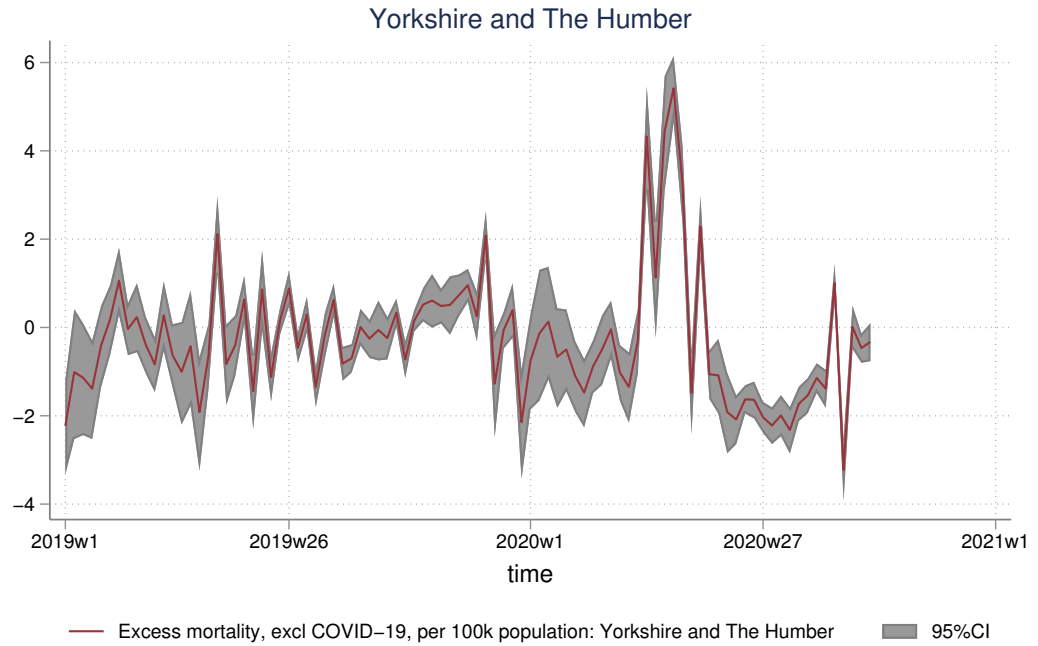
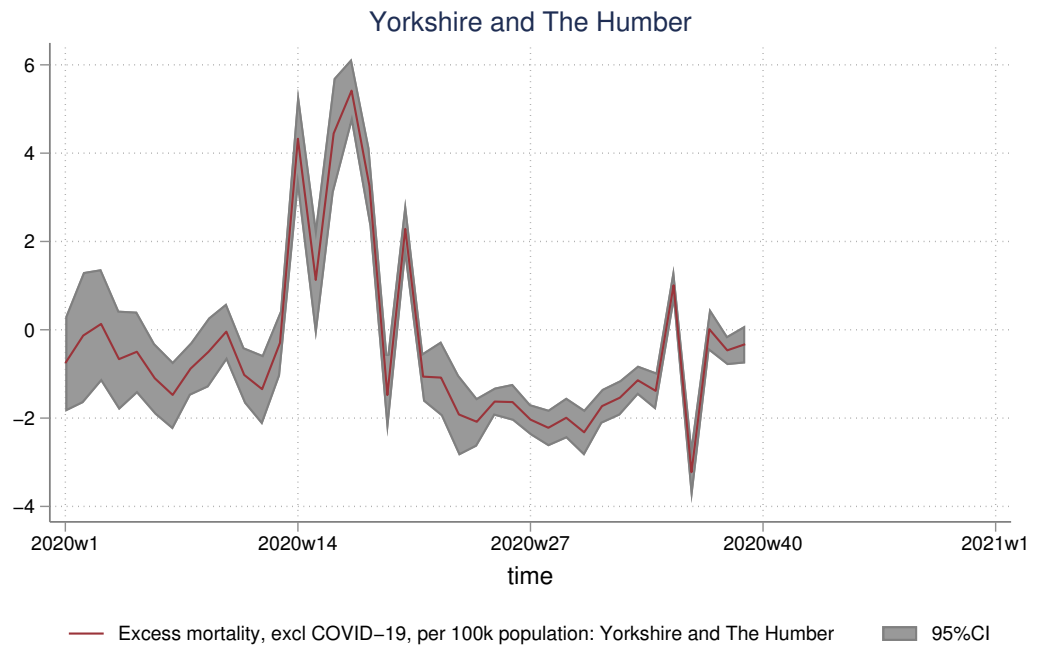


Figure 45: YatH all-cause excess deaths minus COVID19, from 2020 week 1



2.5 East Midlands

Figure 46: EMD Mortality time trend and model, from 2010 week 1

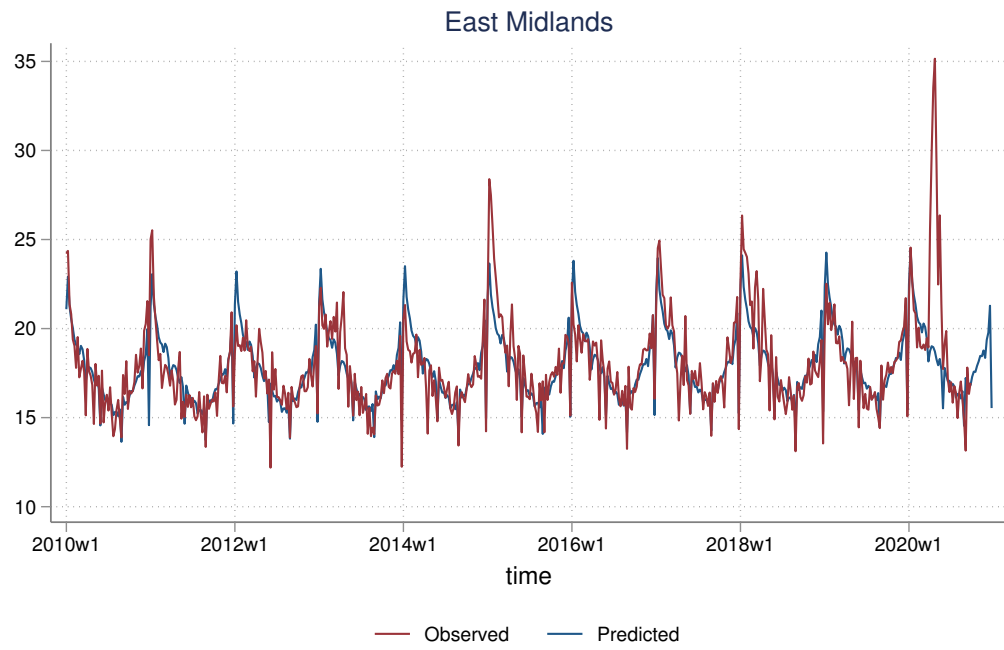


Figure 47: EMD Mortality time trend and model, from 2019 week 1

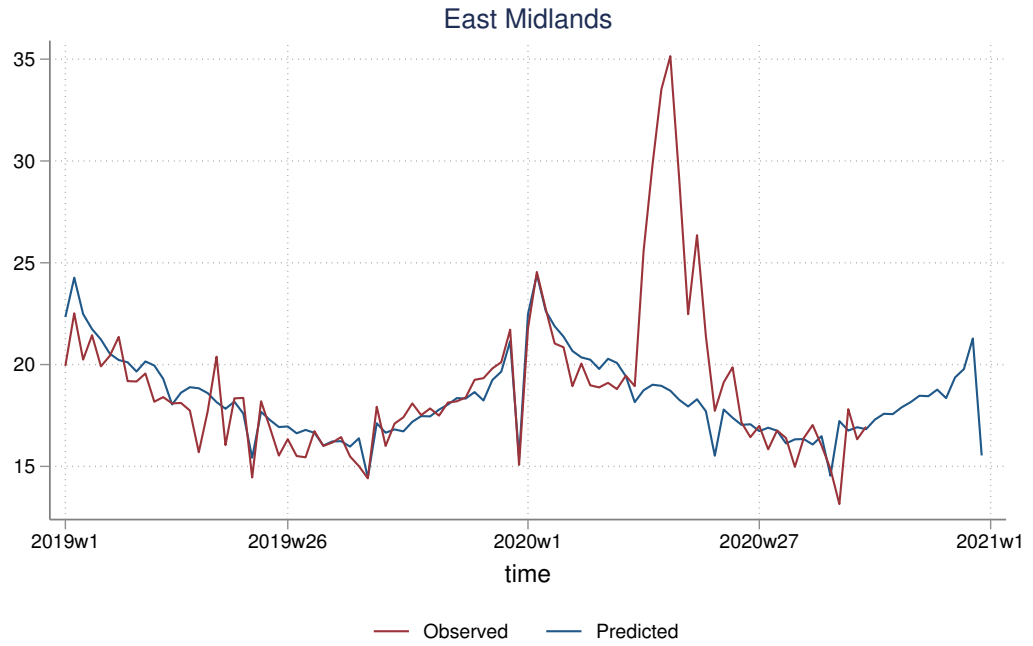


Figure 48: EMD Mortality time trend and model, from 2020 week 1

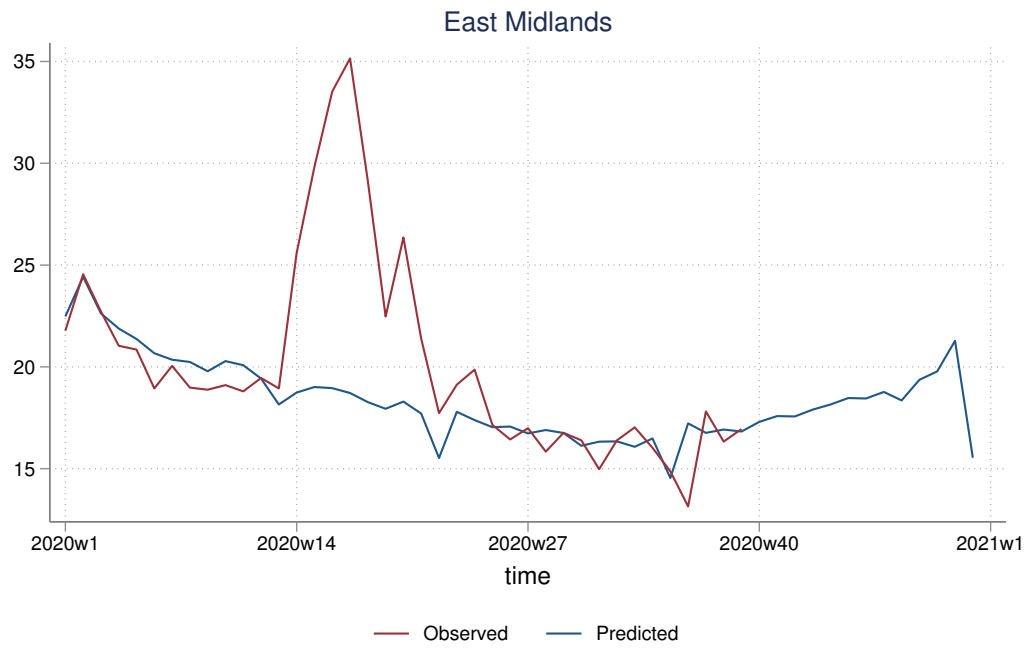


Figure 49: EMD all-cause excess deaths, from 2010 week 1

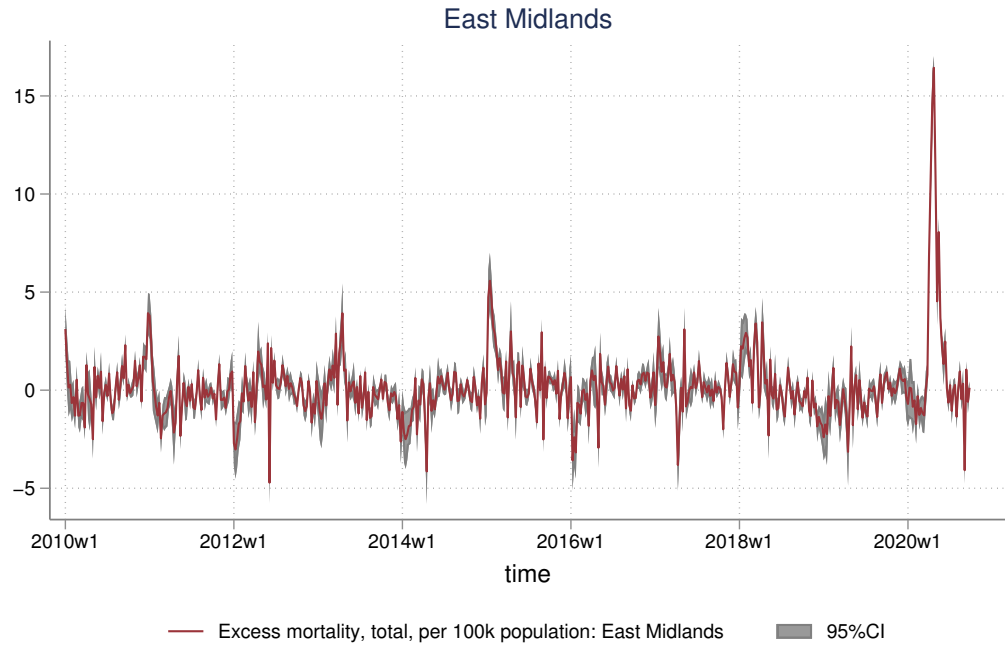


Figure 50: EMD all-cause excess deaths, from 2019 week 1

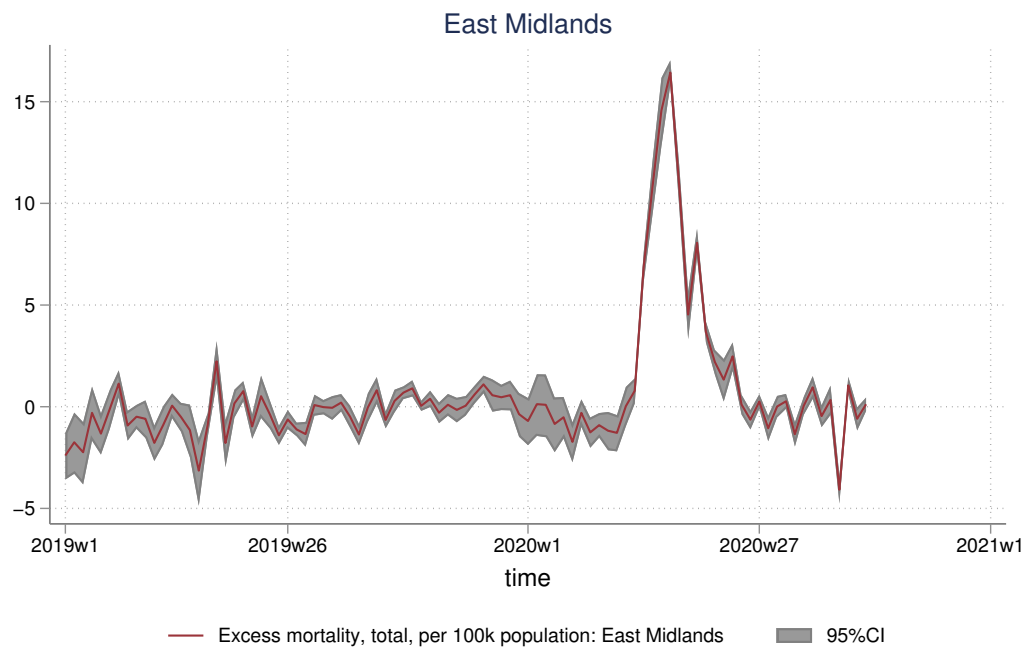


Figure 51: EMD all-cause excess deaths, from 2020 week 1

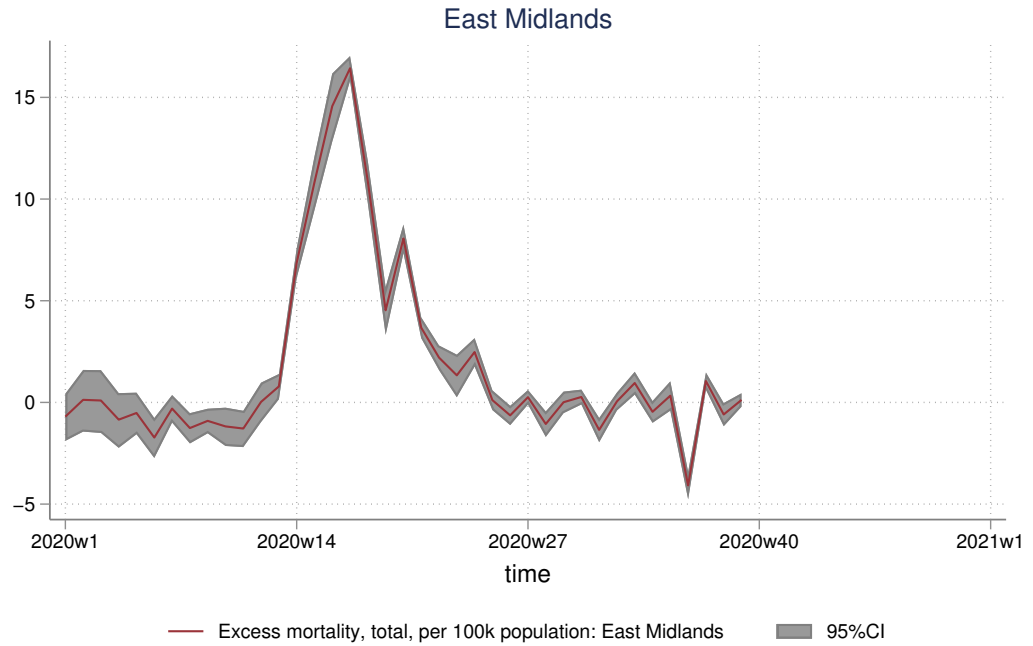


Figure 52: EMD all-cause excess deaths minus COVID19, from 2010 week 1

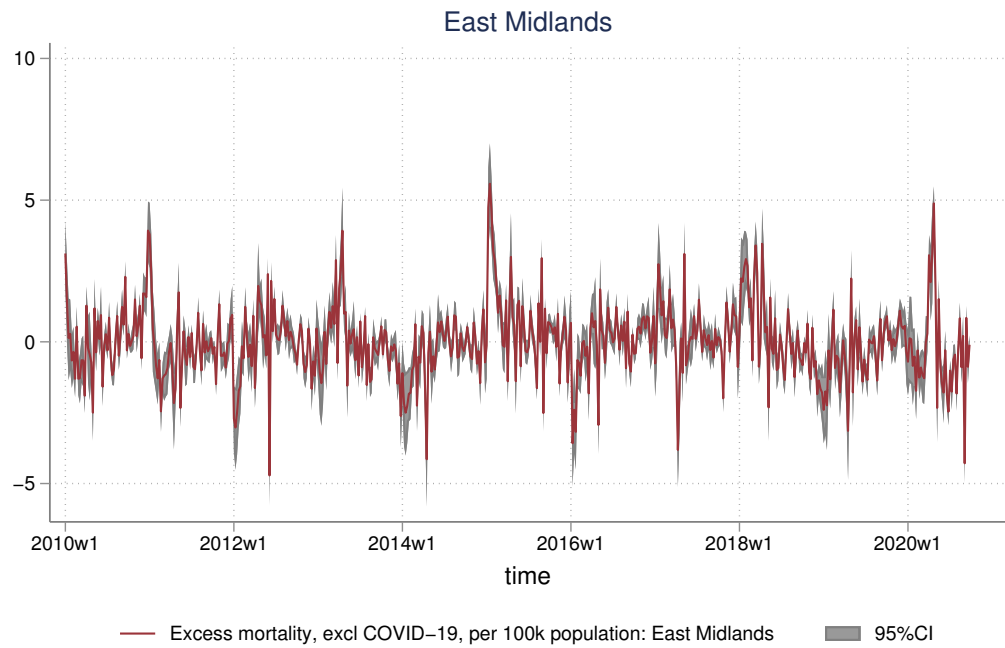


Figure 53: EMD all-cause excess deaths minus COVID19, from 2019 week 1

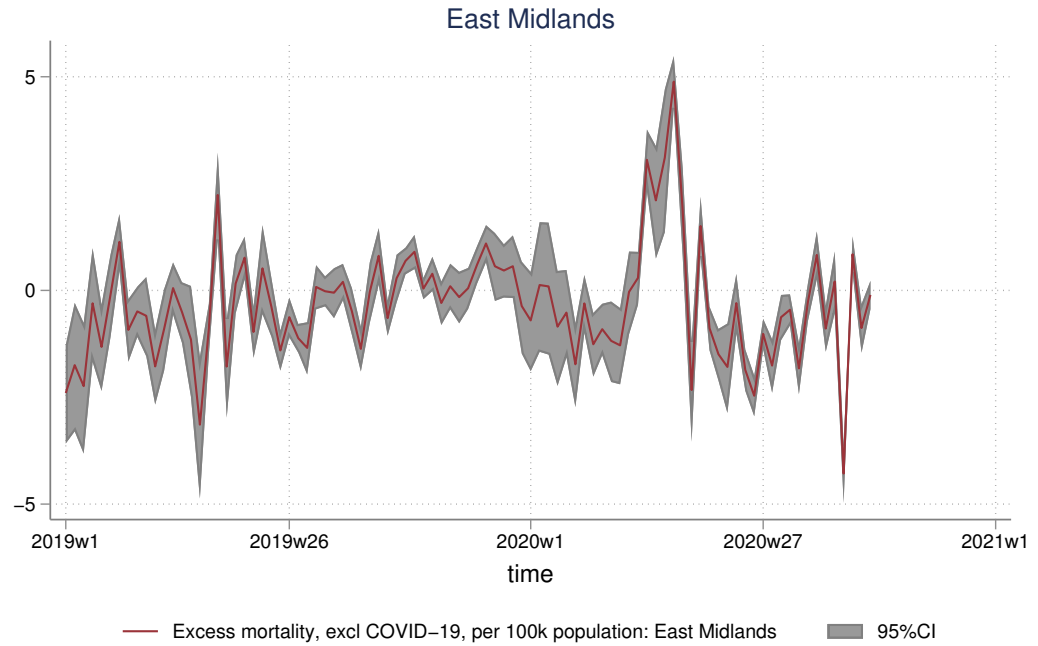
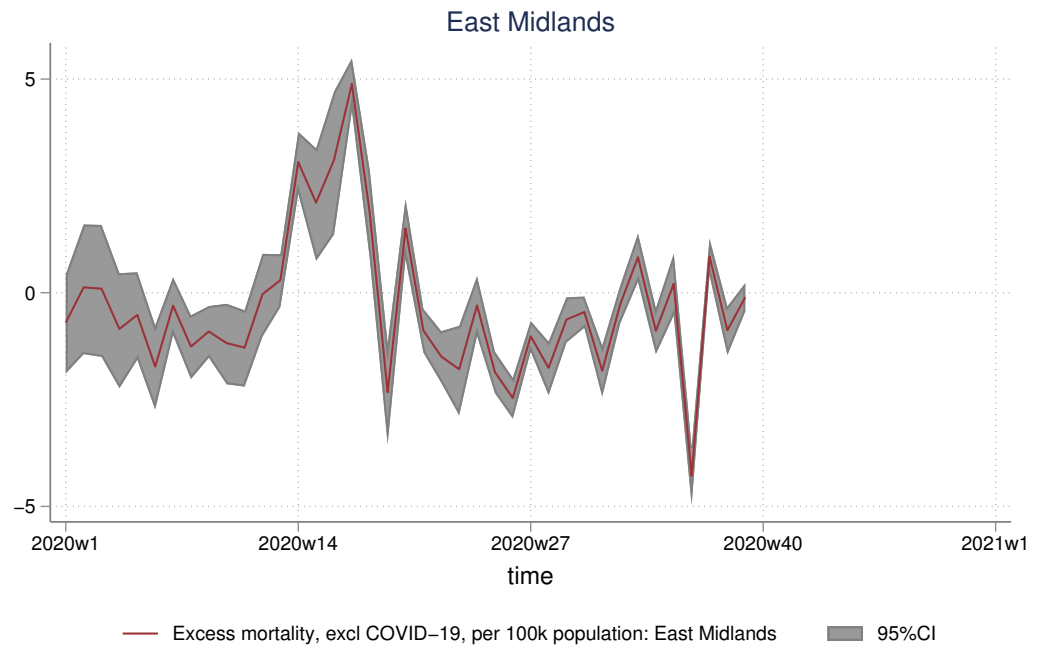


Figure 54: EMD all-cause excess deaths minus COVID19, from 2020 week 1



2.6 West Midlands

Figure 55: WMD Mortality time trend and model, from 2010 week 1

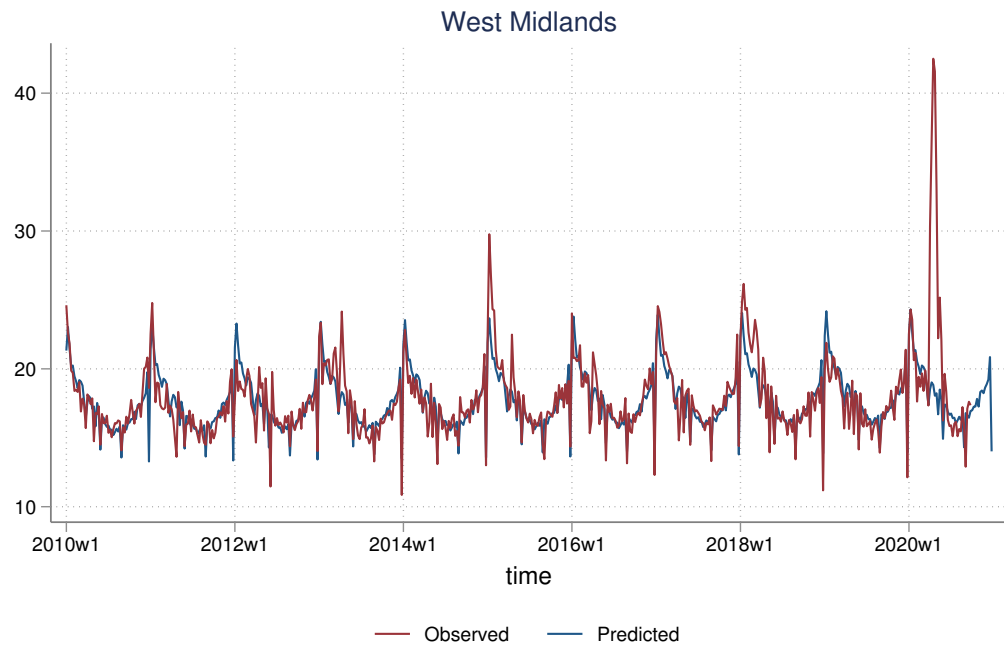


Figure 56: WMD Mortality time trend and model, from 2019 week 1

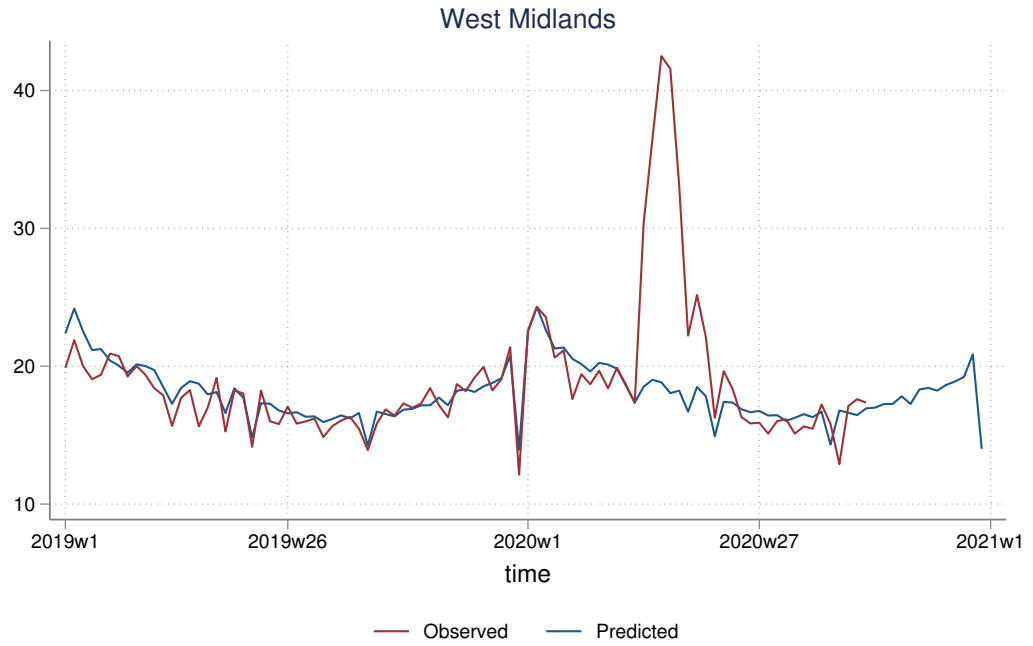


Figure 57: WMD Mortality time trend and model, from 2020 week 1

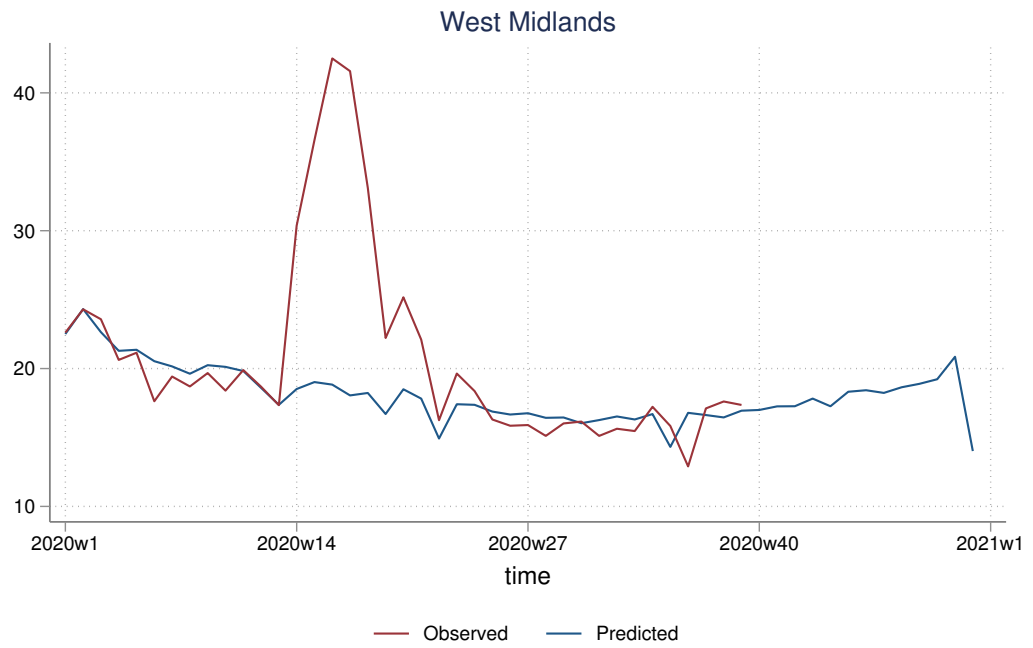


Figure 58: WMD all-cause excess deaths, from 2010 week 1

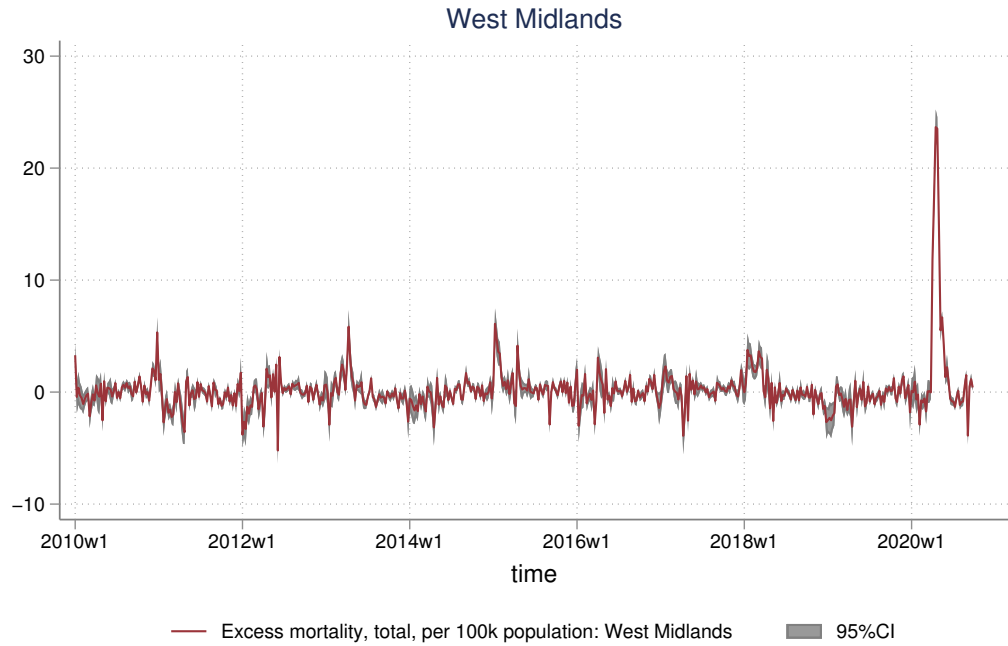


Figure 59: WMD all-cause excess deaths, from 2019 week 1

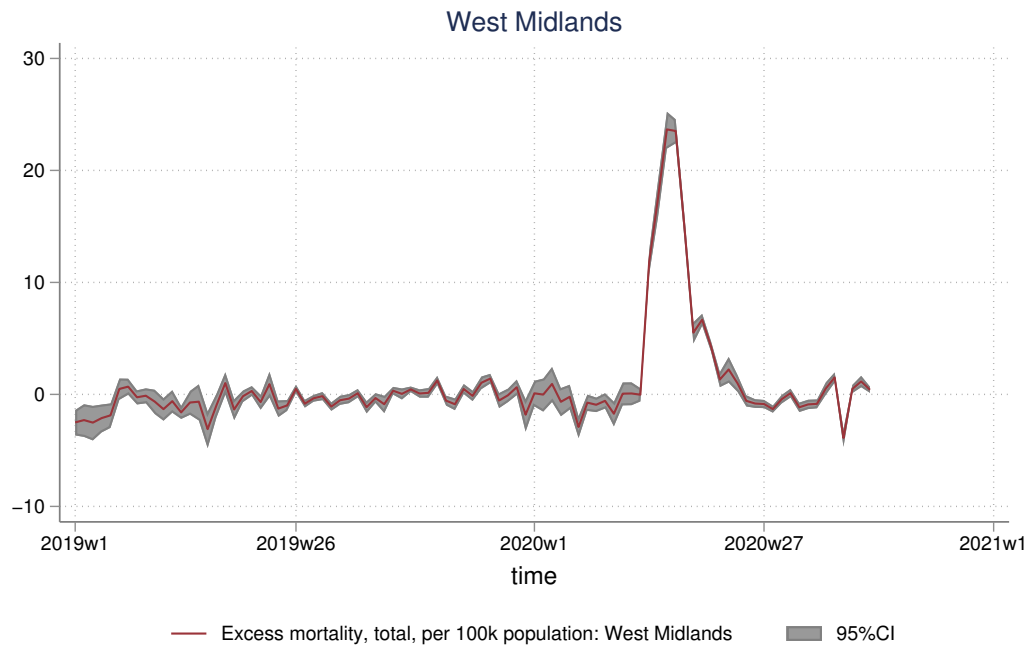


Figure 60: WMD all-cause excess deaths, from 2020 week 1

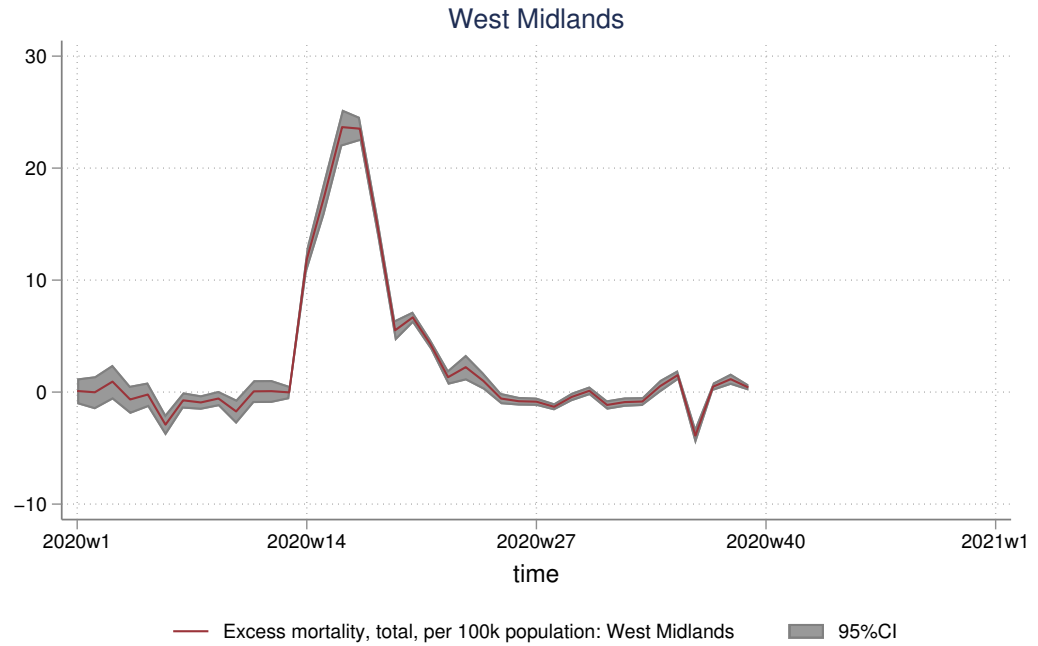


Figure 61: WMD all-cause excess deaths minus COVID19, from 2010 week 1

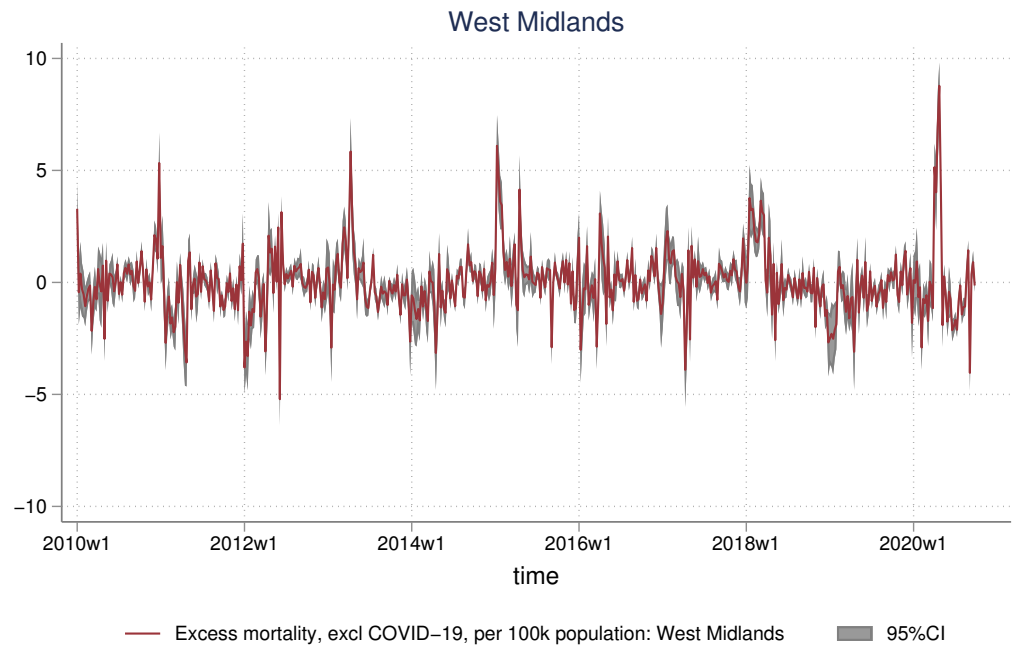


Figure 62: WMD all-cause excess deaths minus COVID19, from 2019 week 1

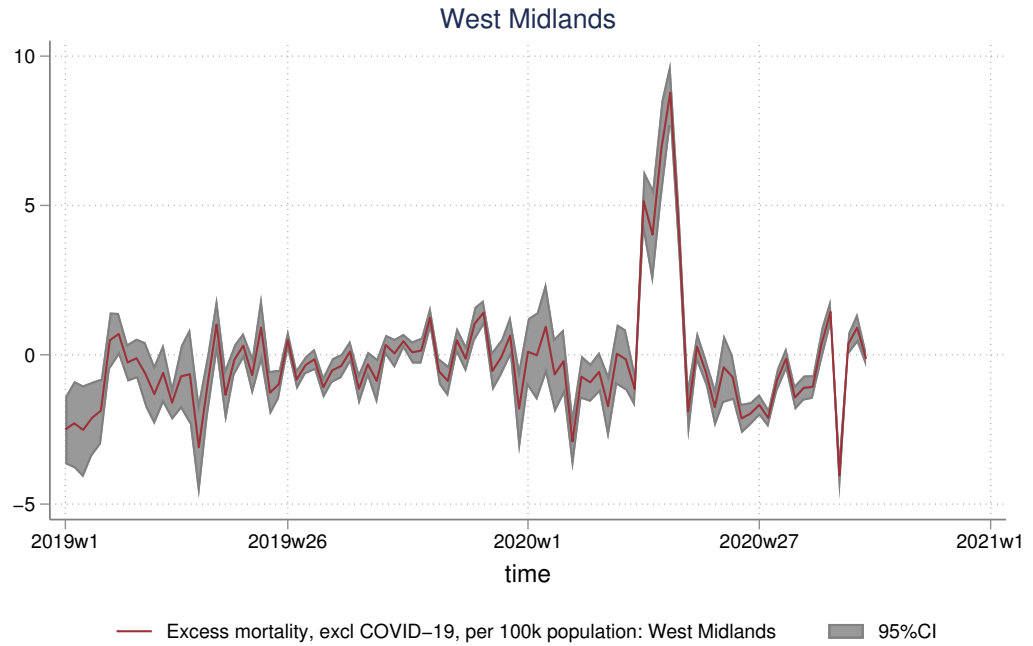
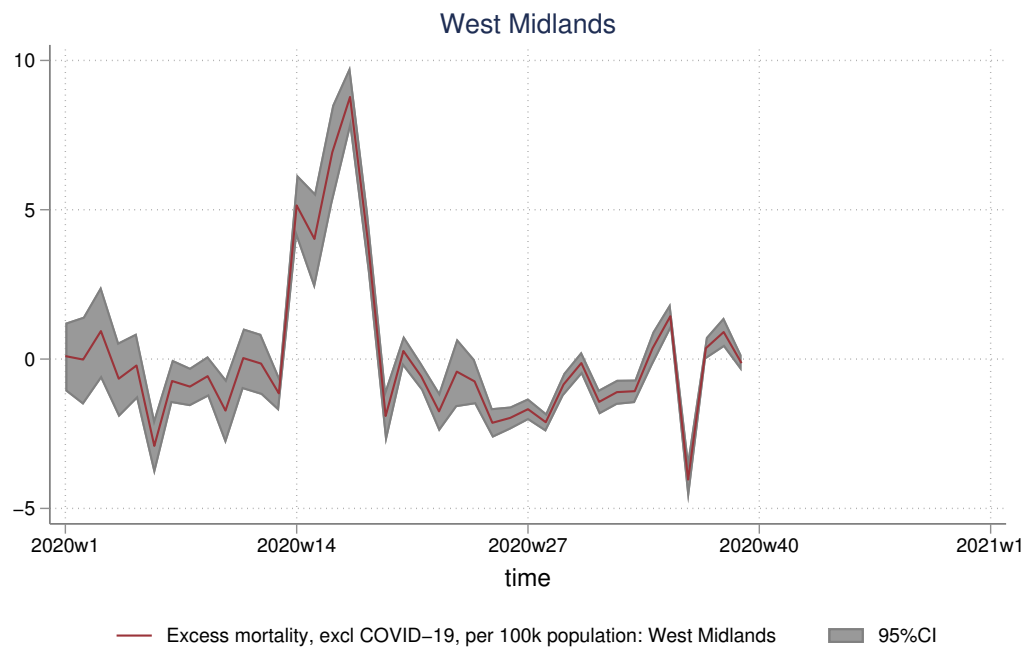


Figure 63: WMD all-cause excess deaths minus COVID19, from 2020 week 1



2.7 East

Figure 64: East Mortality time trend and model, from 2010 week 1

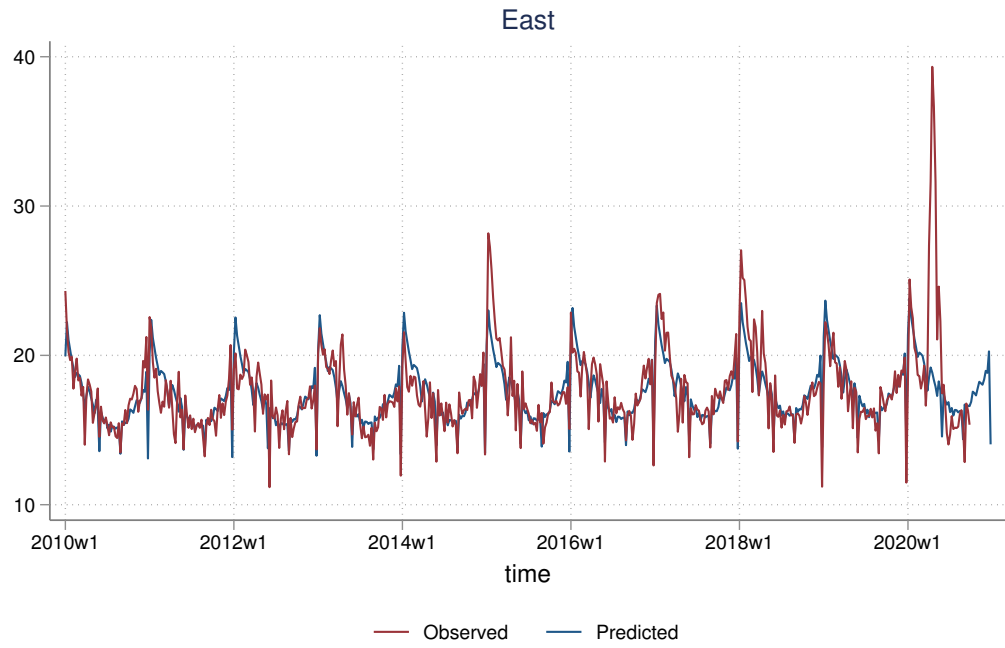


Figure 65: East Mortality time trend and model, from 2019 week 1

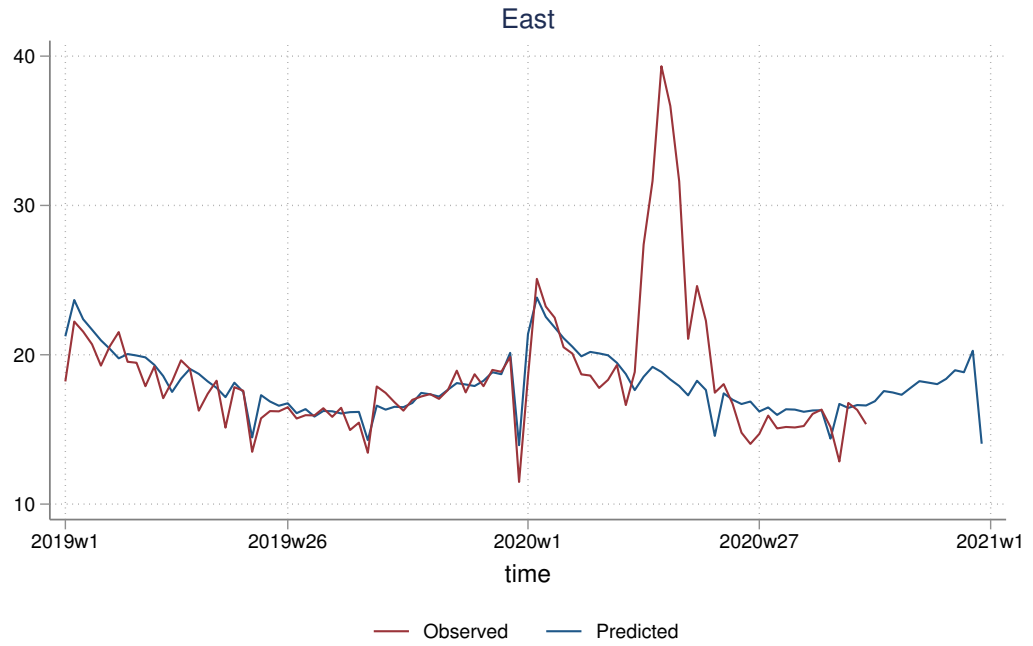


Figure 66: East Mortality time trend and model, from 2020 week 1

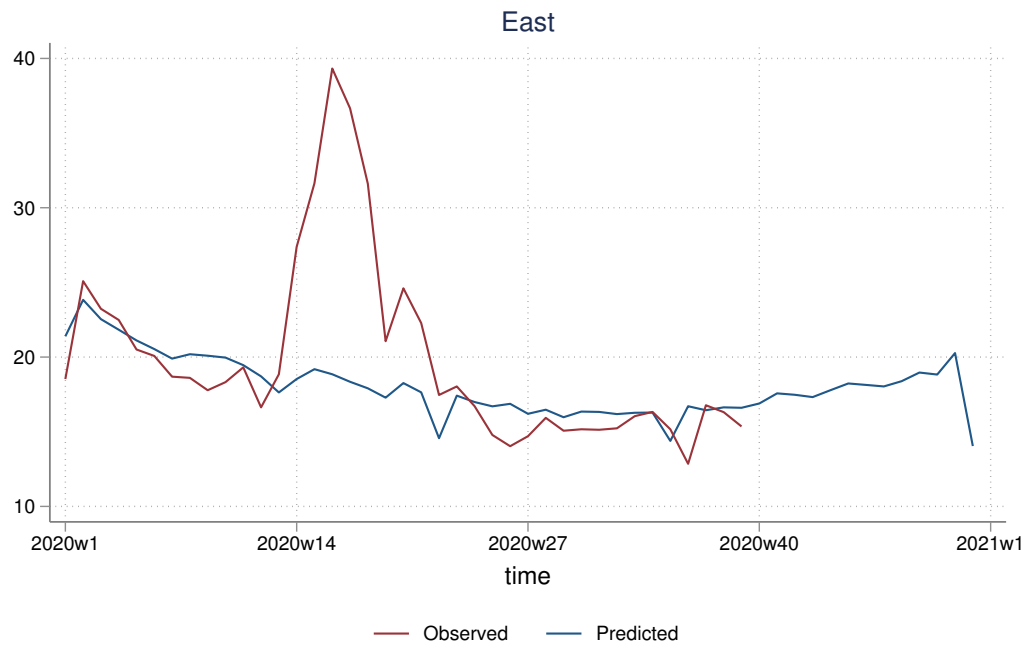


Figure 67: East all-cause excess deaths, from 2010 week 1

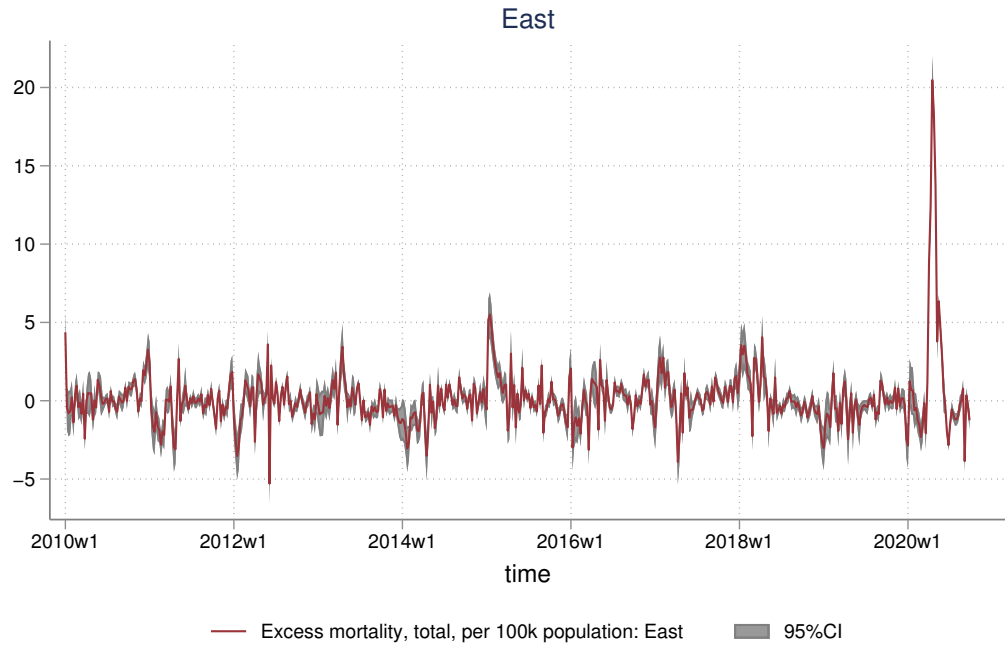


Figure 68: East all-cause excess deaths, from 2019 week 1

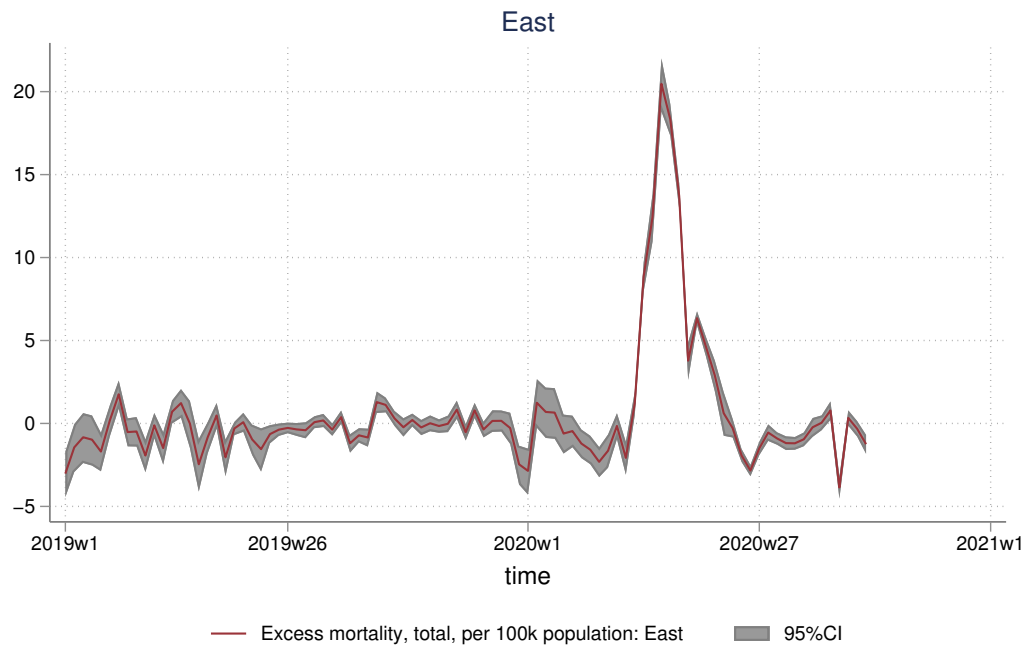


Figure 69: East all-cause excess deaths, from 2020 week 1

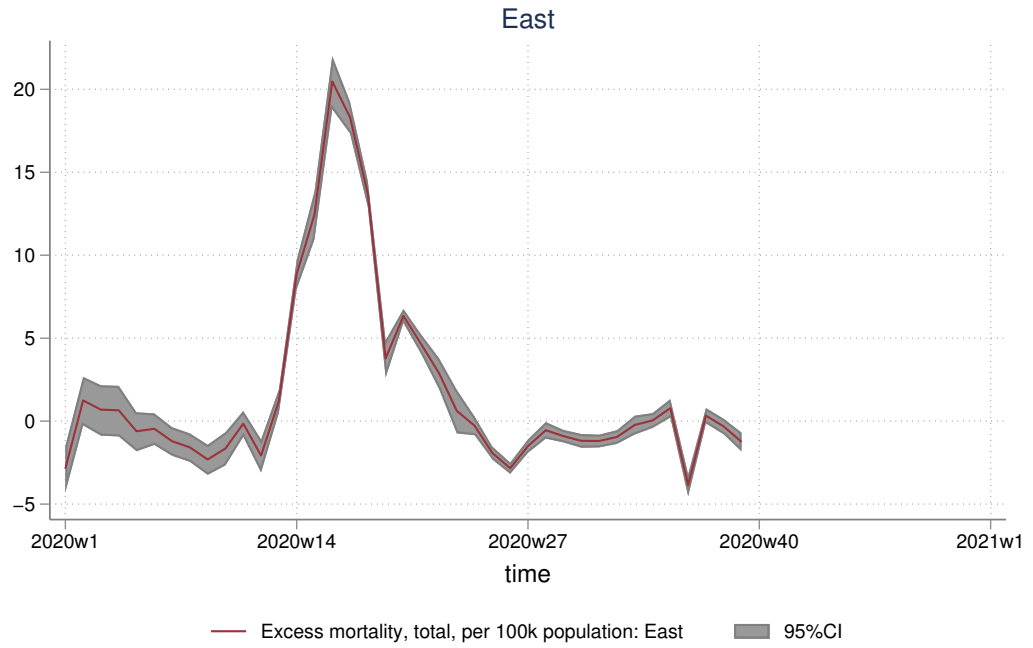


Figure 70: East all-cause excess deaths minus COVID19, from 2010 week 1

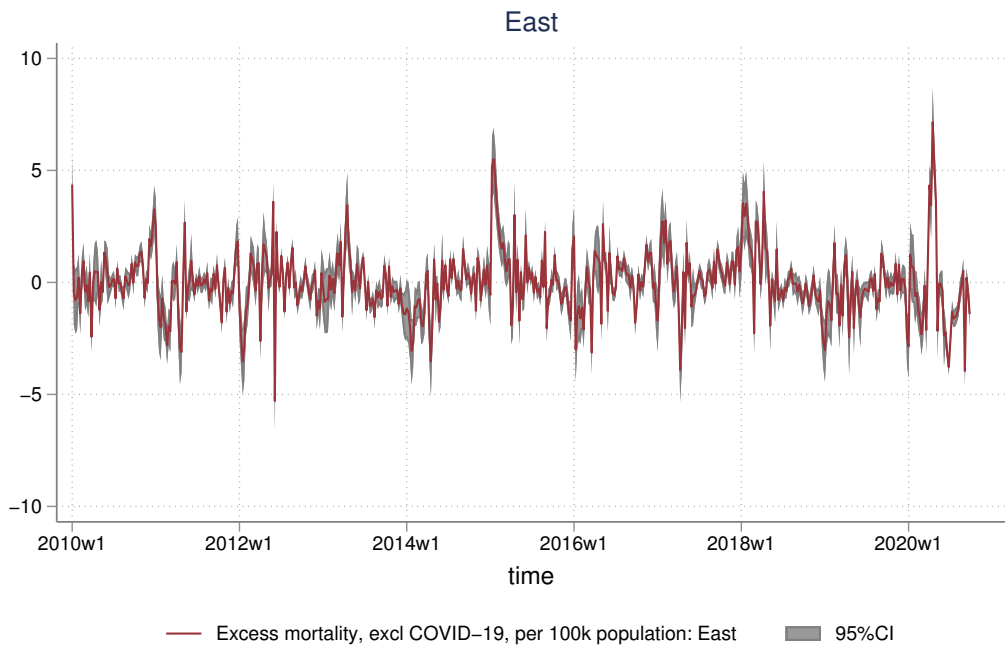


Figure 71: East all-cause excess deaths minus COVID19, from 2019 week 1

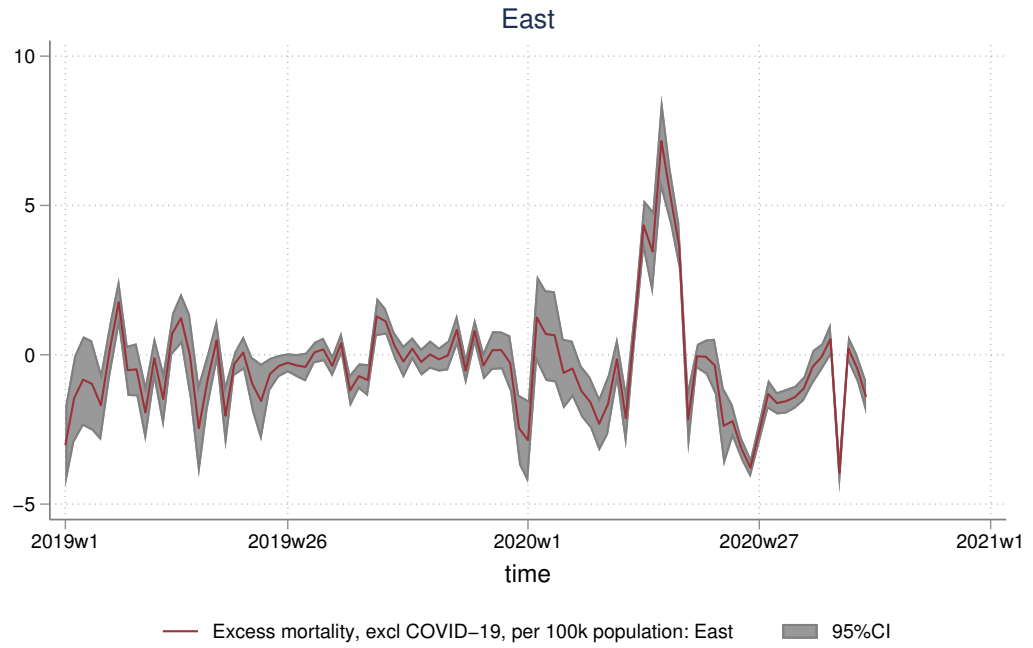
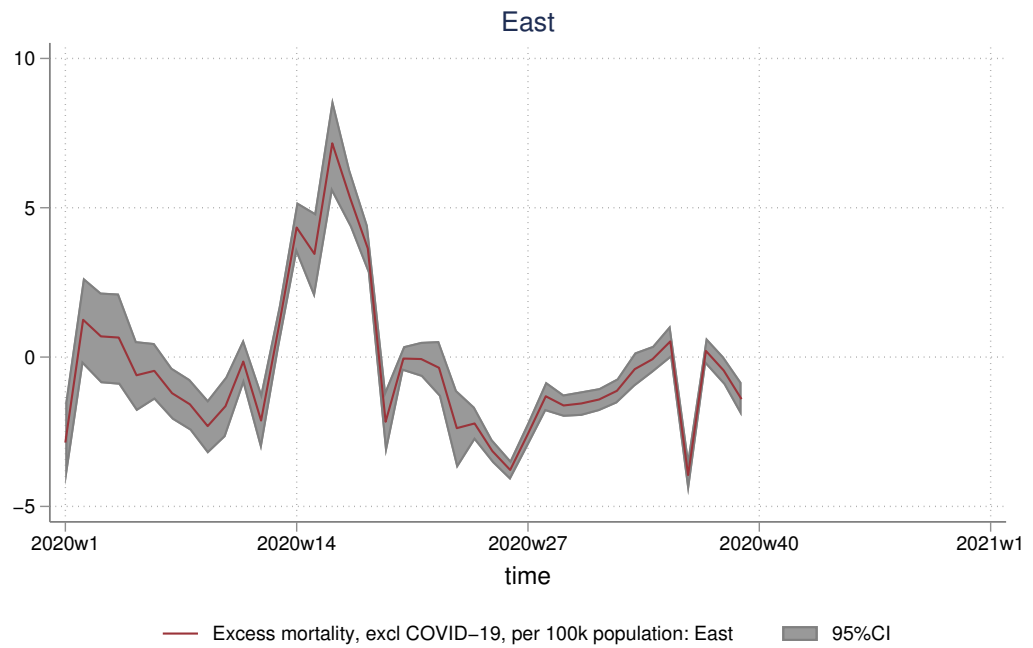


Figure 72: East all-cause excess deaths minus COVID19, from 2020 week 1



2.8 London

Figure 73: London Mortality time trend and model, from 2010 week 1

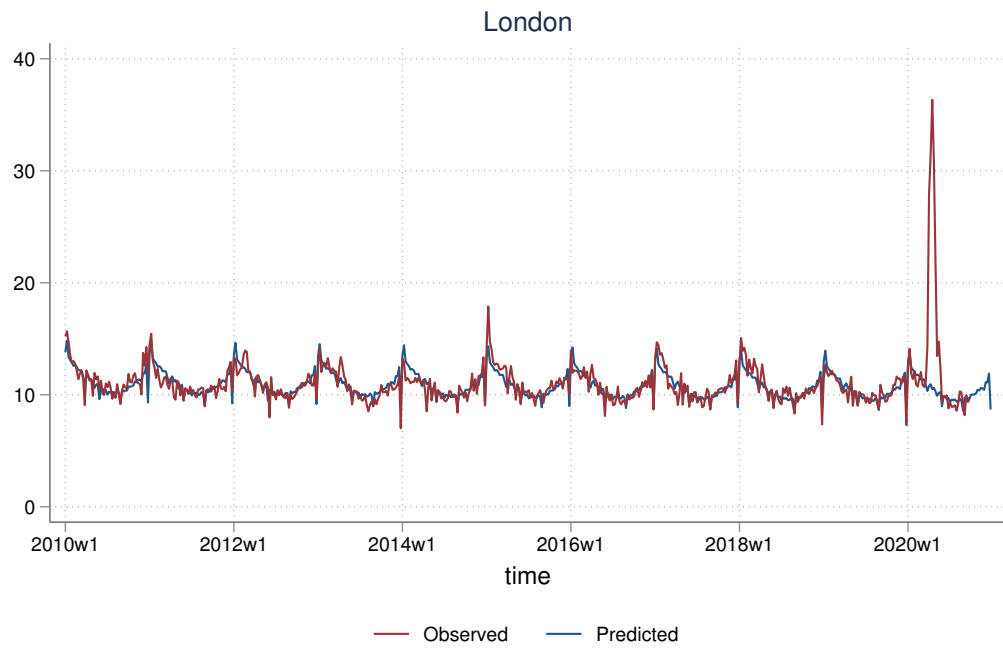


Figure 74: London Mortality time trend and model, from 2019 week 1

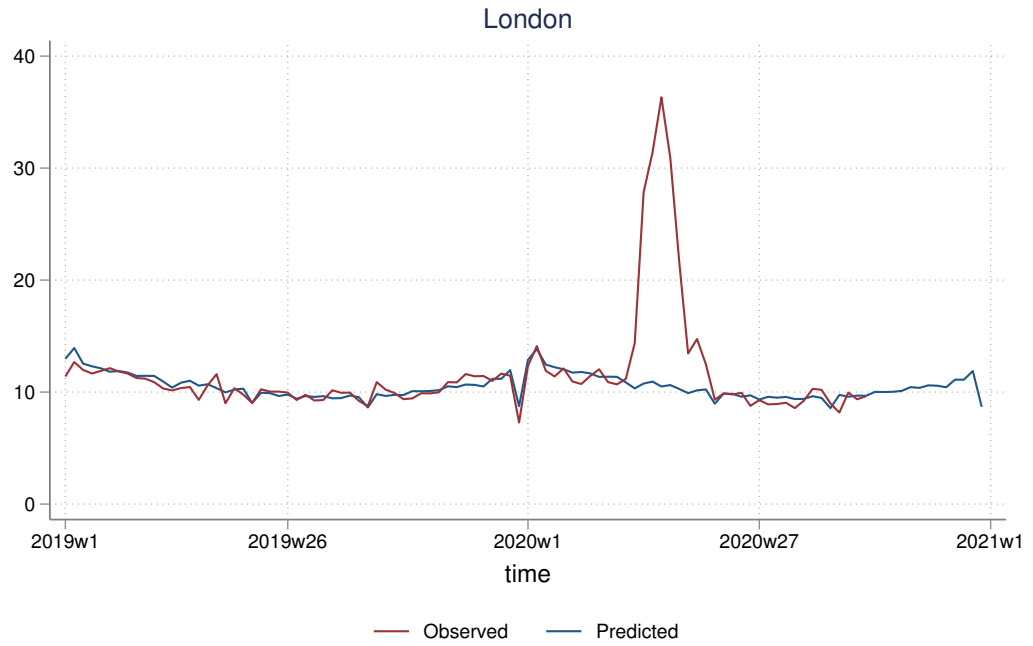


Figure 75: London Mortality time trend and model, from 2020 week 1

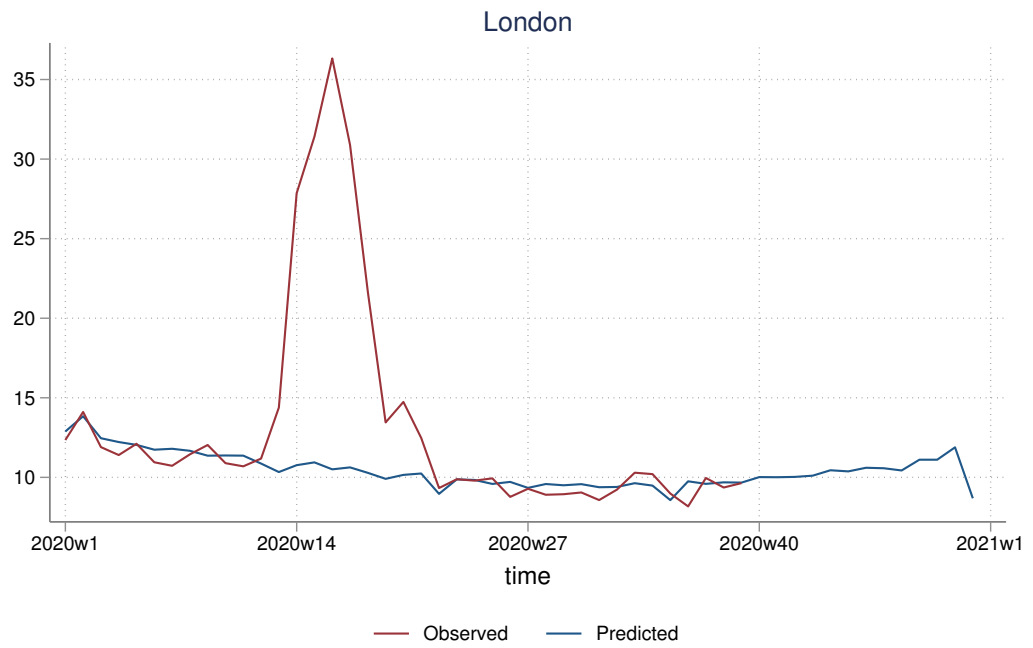


Figure 76: London all-cause excess deaths, from 2010 week 1

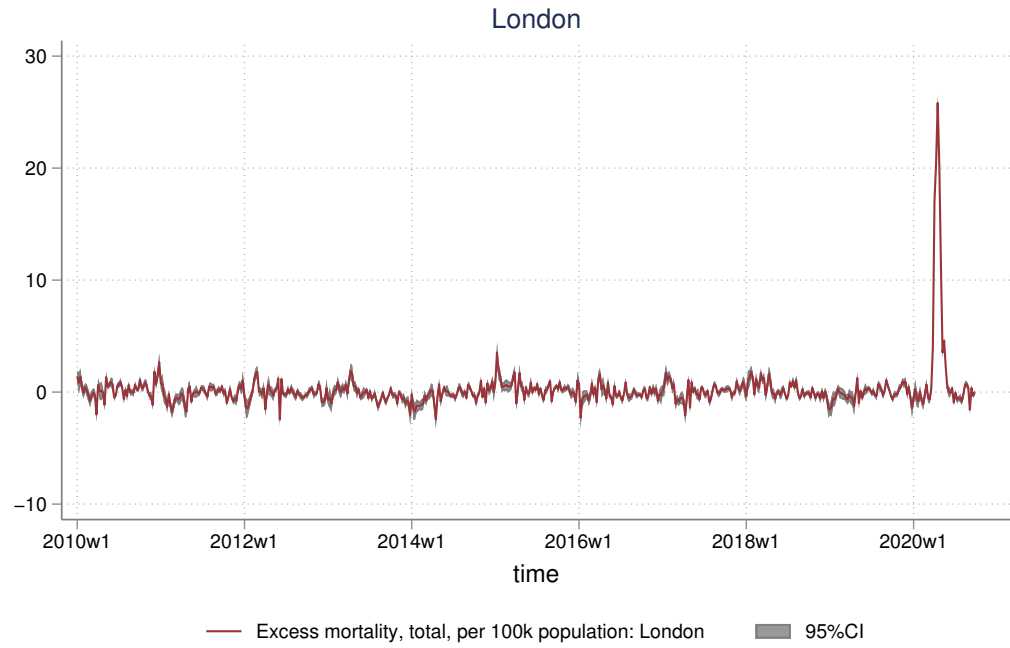


Figure 77: London all-cause excess deaths, from 2019 week 1

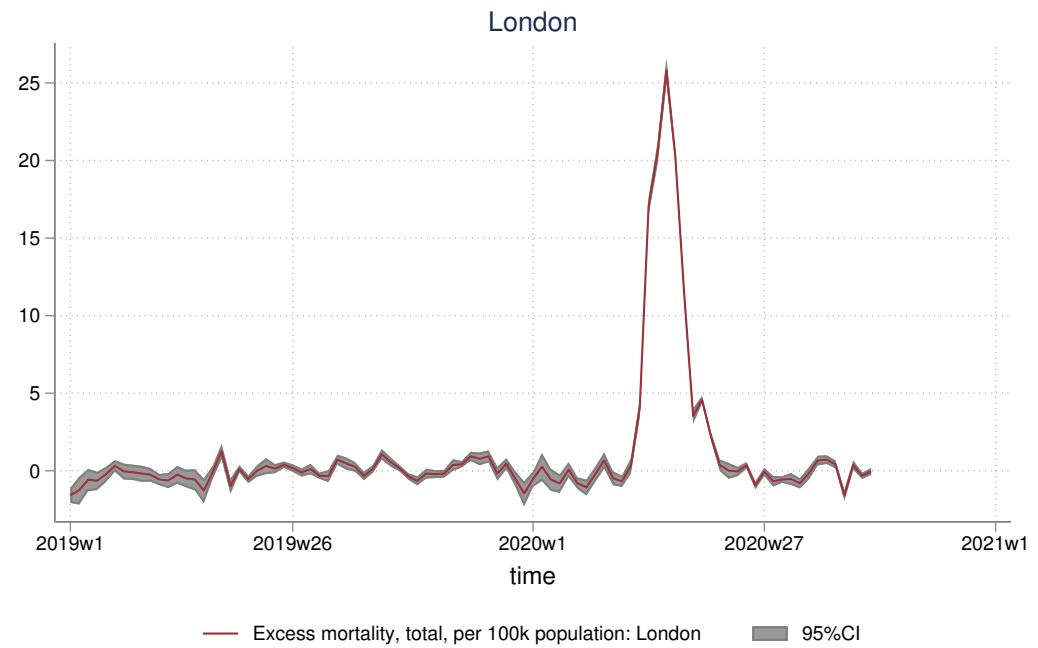


Figure 78: London all-cause excess deaths, from 2020 week 1

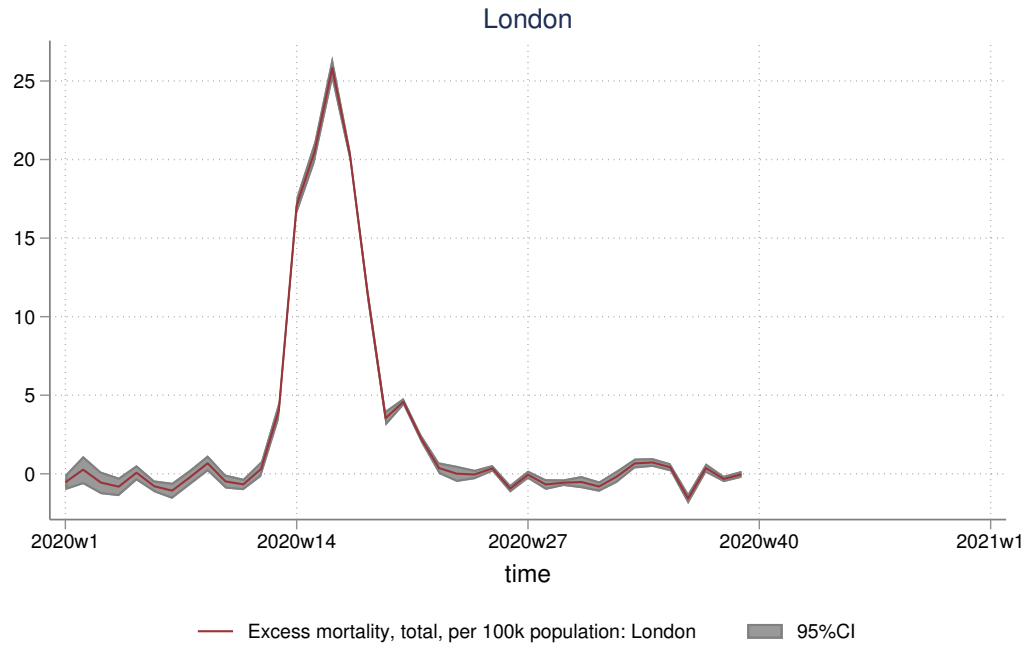


Figure 79: London all-cause excess deaths minus COVID19, from 2010 week 1

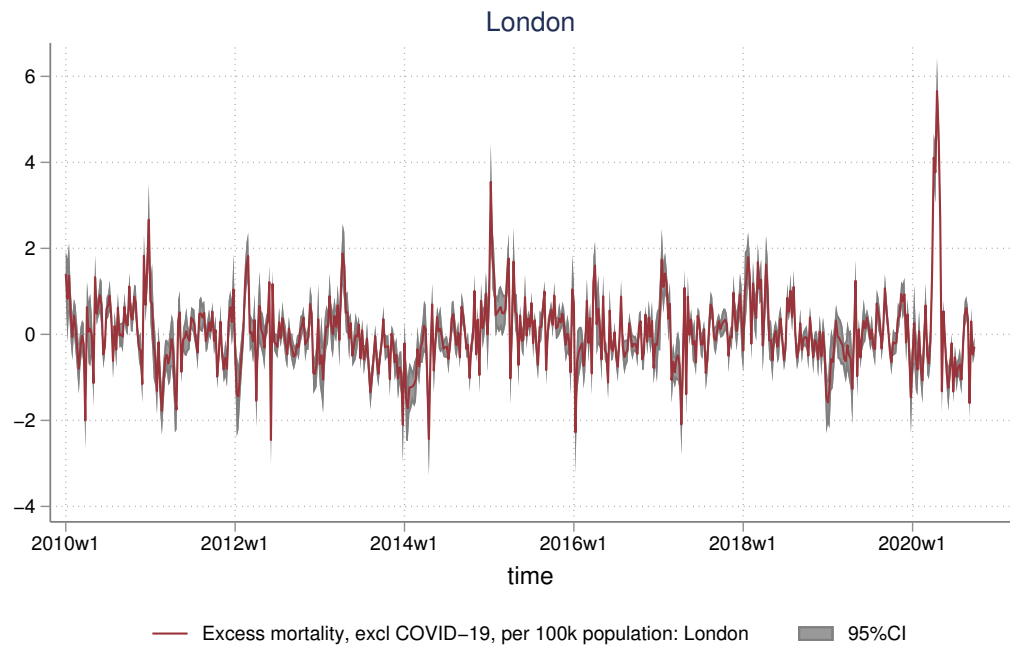


Figure 80: London all-cause excess deaths minus COVID19, from 2019 week 1

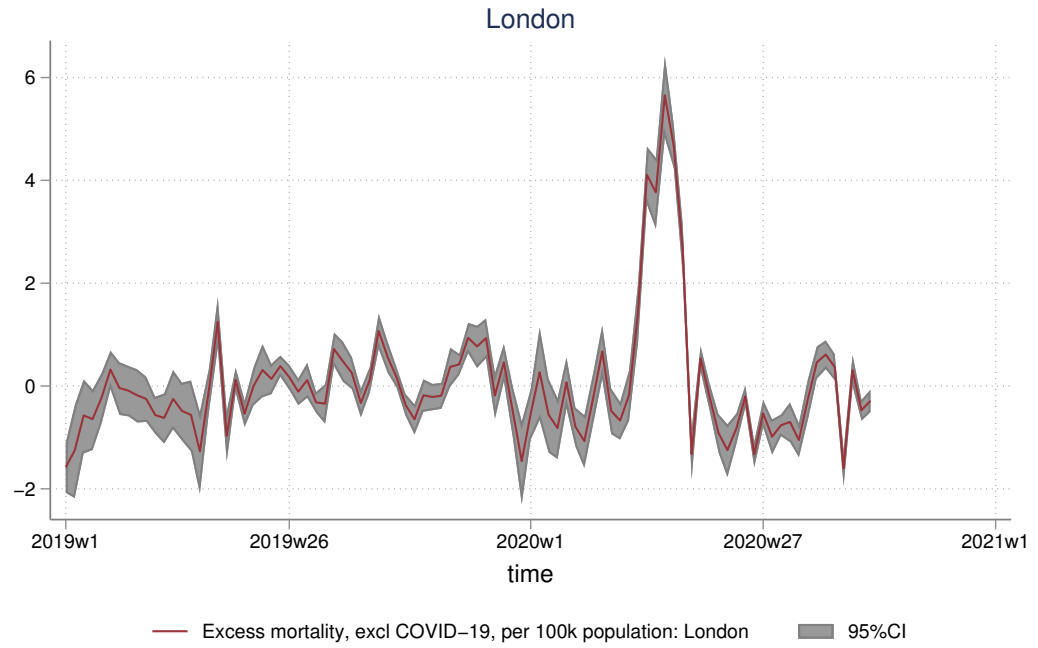
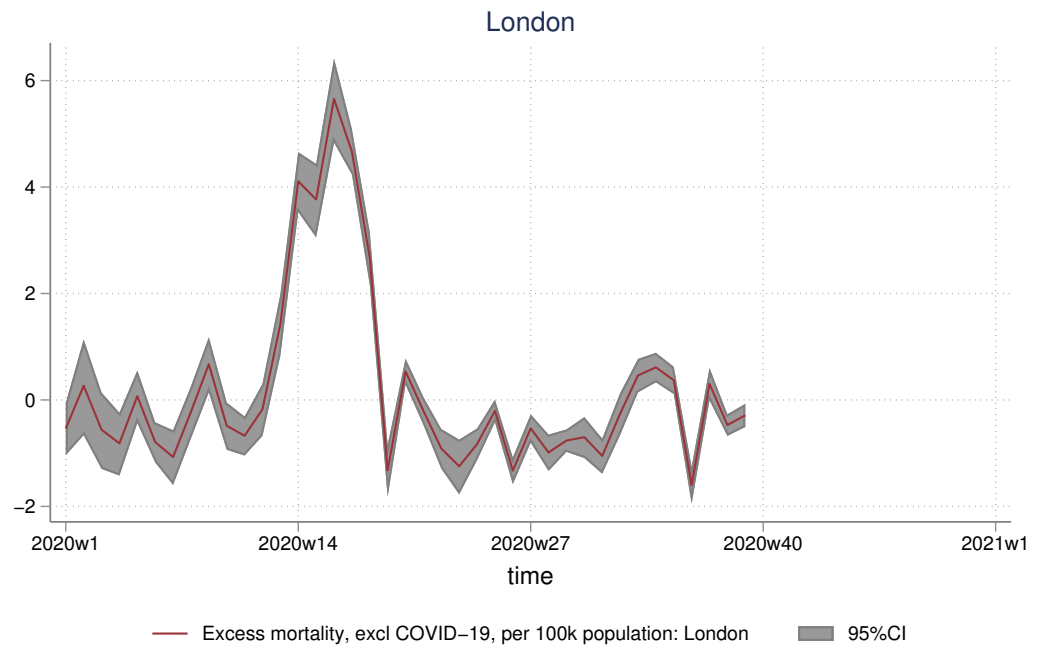


Figure 81: London all-cause excess deaths minus COVID19, from 2020 week 1



2.9 South East

Figure 82: SE Mortality time trend and model, from 2010 week 1

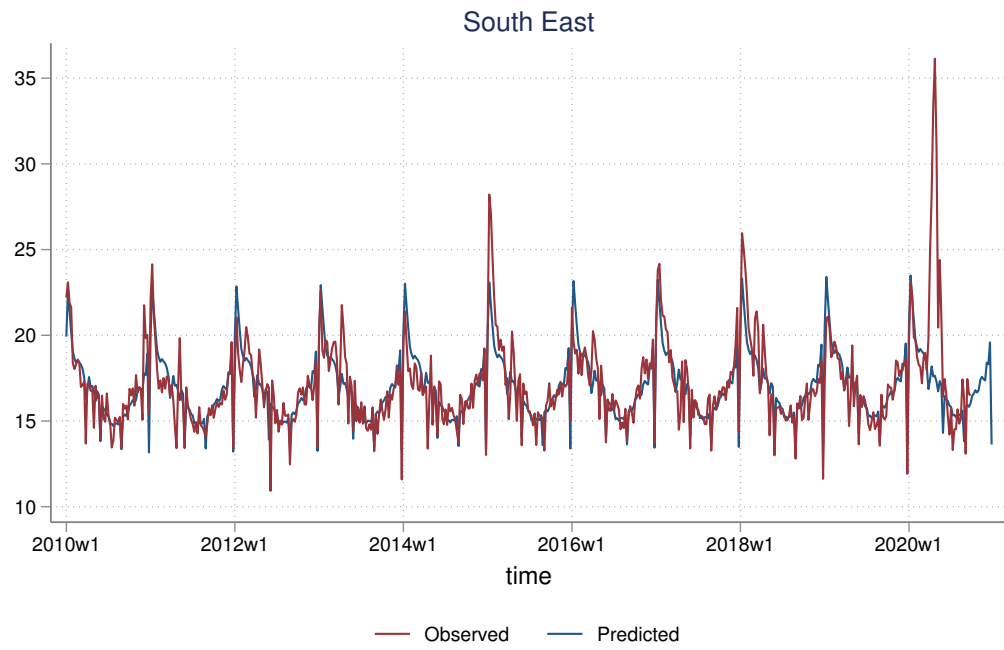


Figure 83: SE Mortality time trend and model, from 2019 week 1

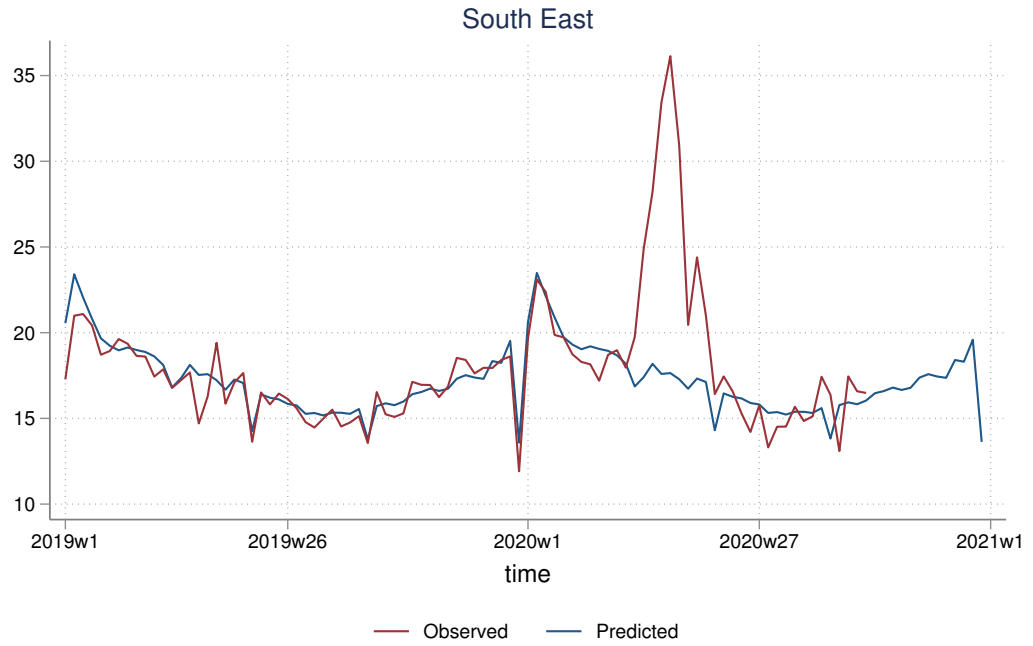


Figure 84: SE Mortality time trend and model, from 2020 week 1

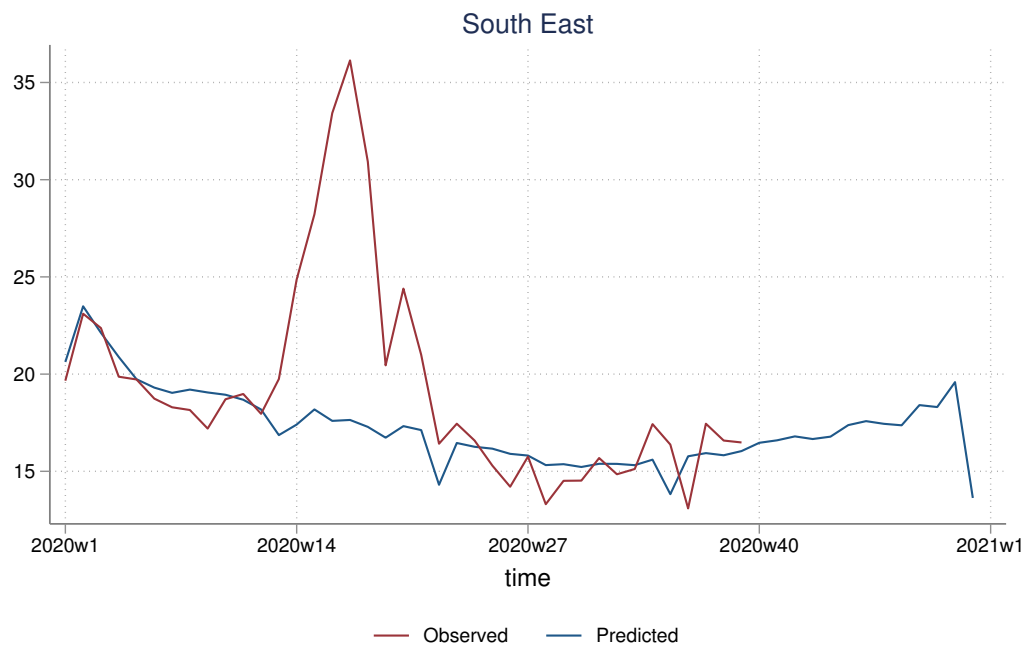


Figure 85: SE all-cause excess deaths, from 2010 week 1

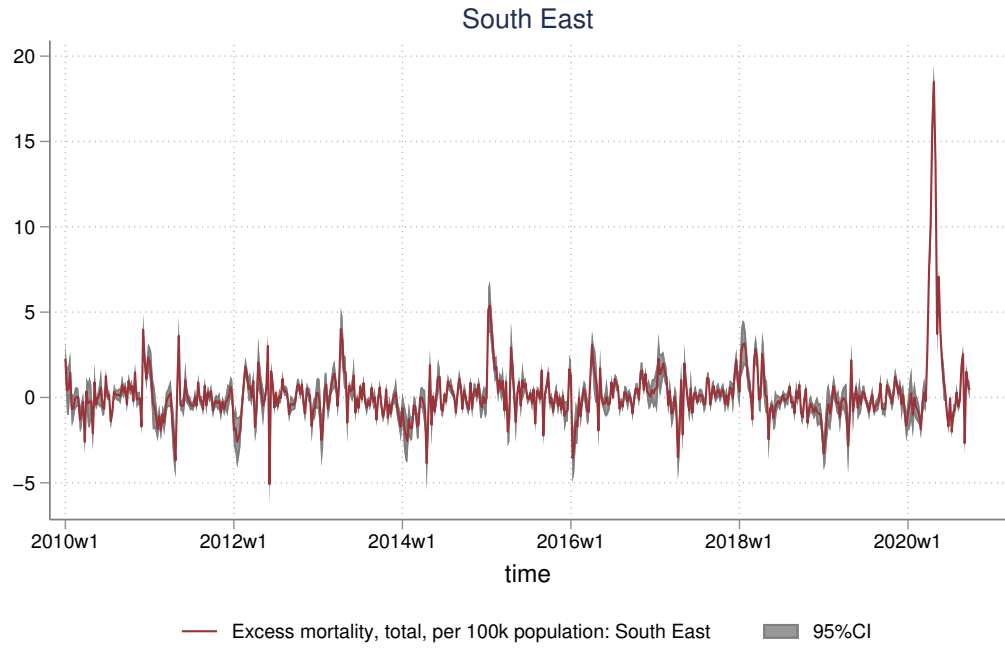


Figure 86: SE all-cause excess deaths, from 2019 week 1

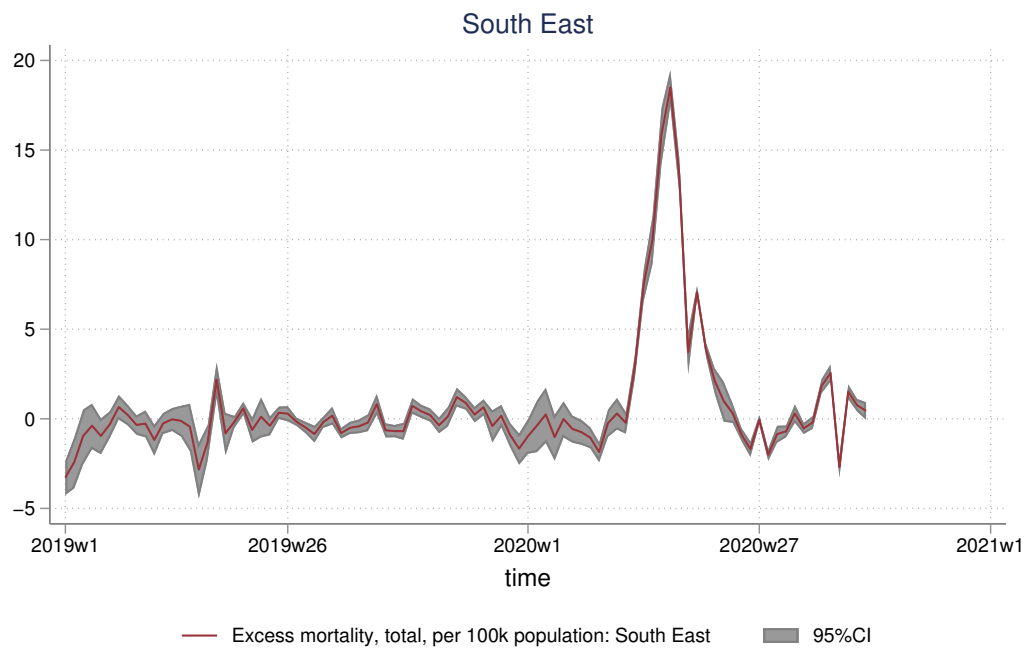


Figure 87: SE all-cause excess deaths, from 2020 week 1

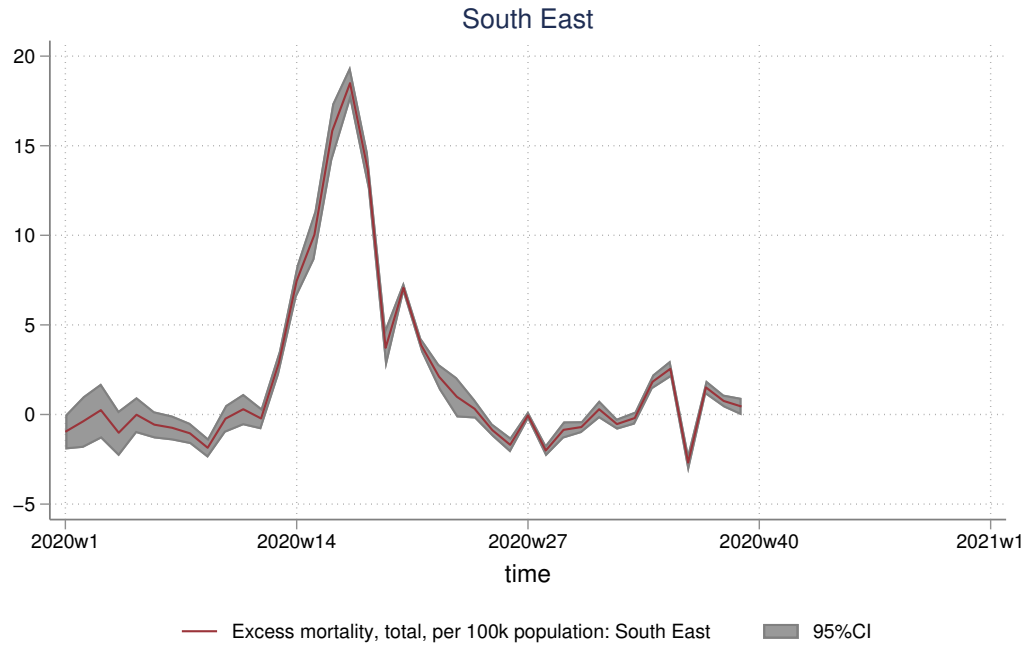


Figure 88: SE all-cause excess deaths minus COVID19, from 2010 week 1

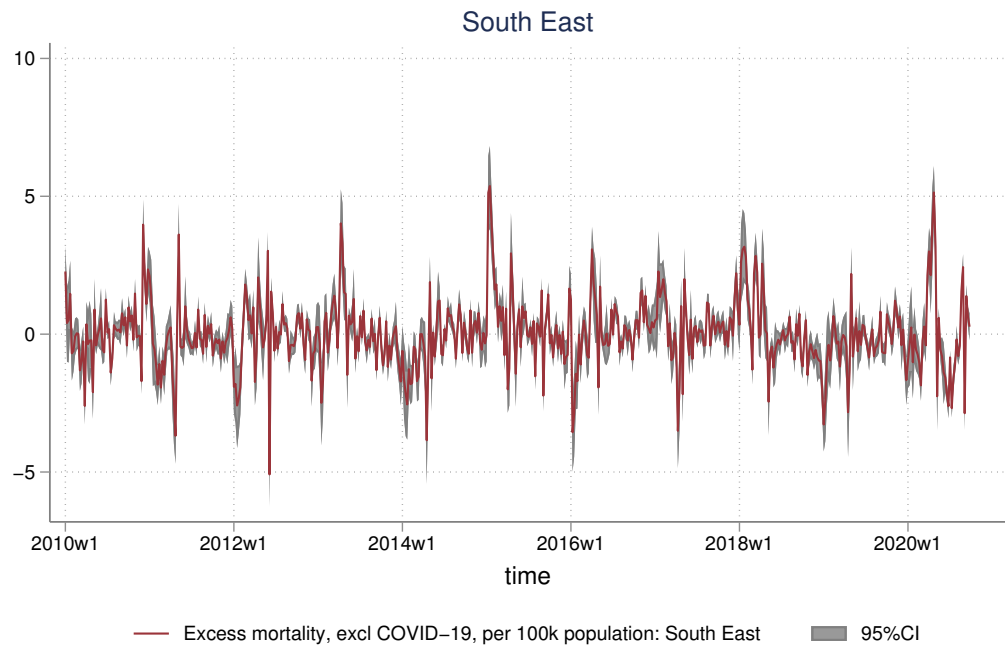


Figure 89: SE all-cause excess deaths minus COVID19, from 2019 week 1

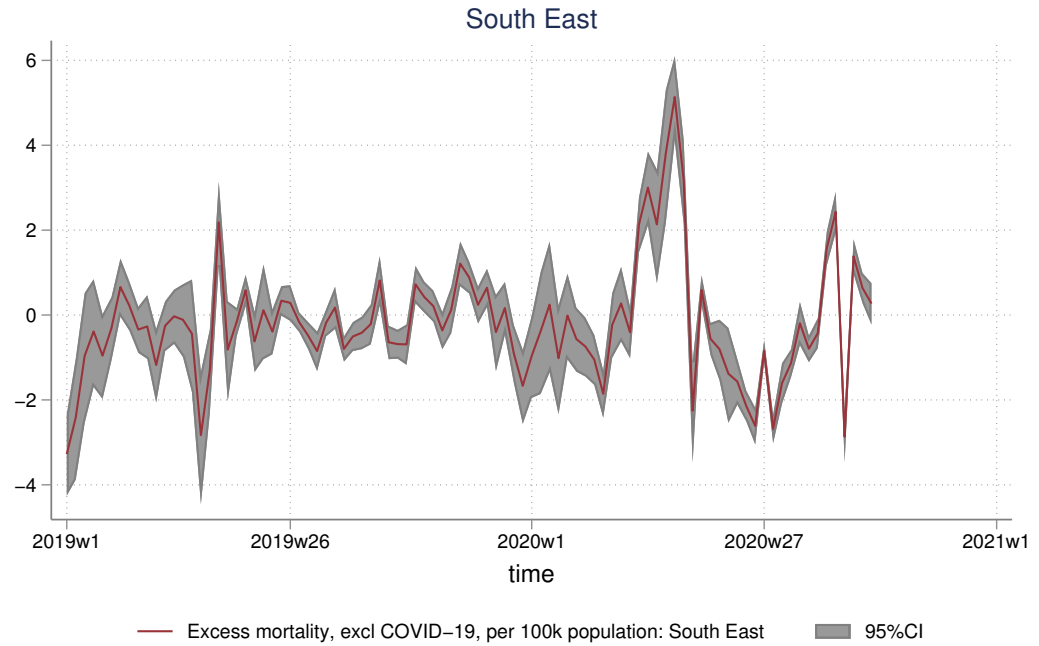
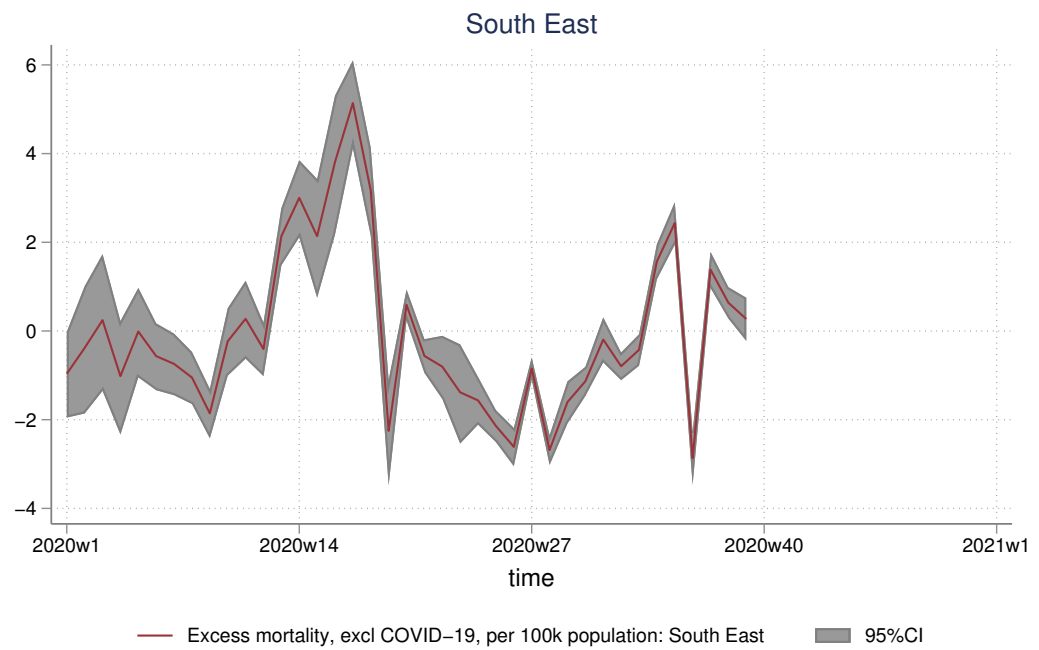


Figure 90: SE all-cause excess deaths minus COVID19, from 2020 week 1



2.10 South West

Figure 91: SW Mortality time trend and model, from 2010 week 1

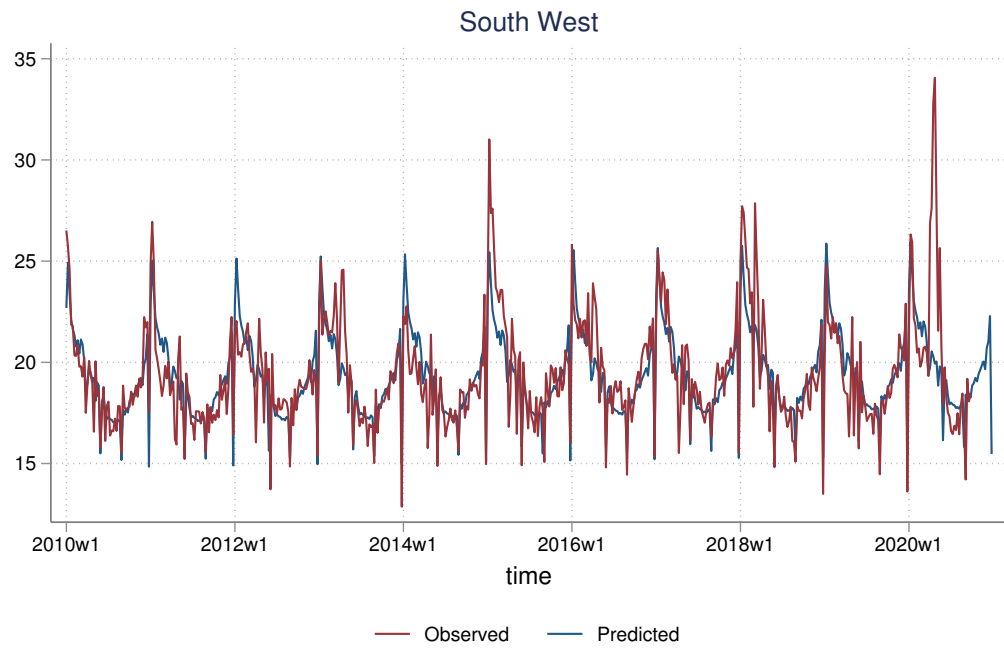


Figure 92: SE Mortality time trend and model, from 2019 week 1

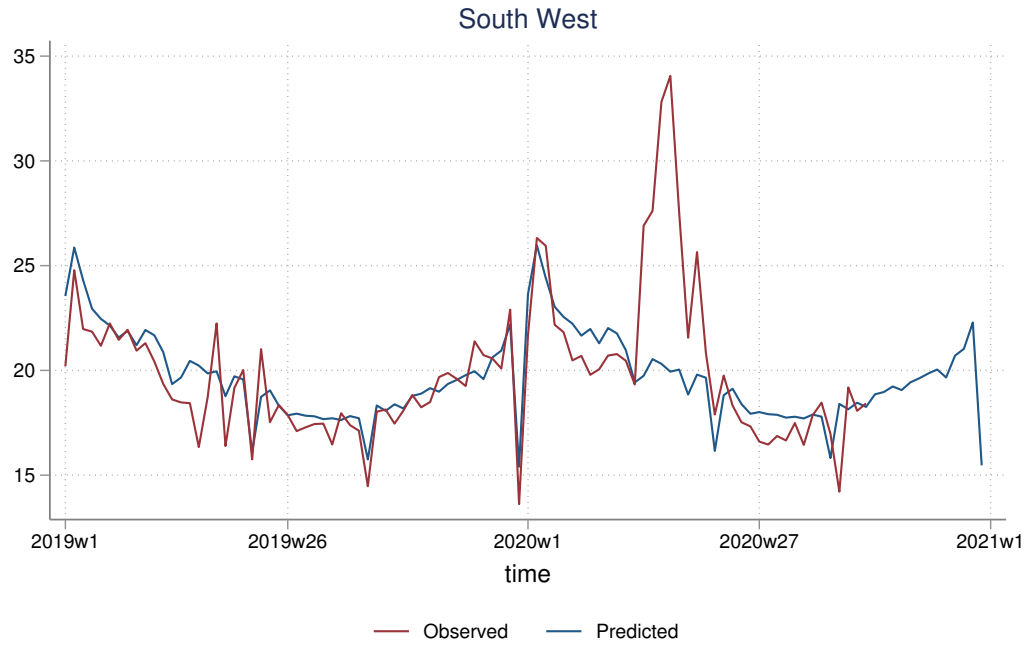


Figure 93: SW Mortality time trend and model, from 2020 week 1

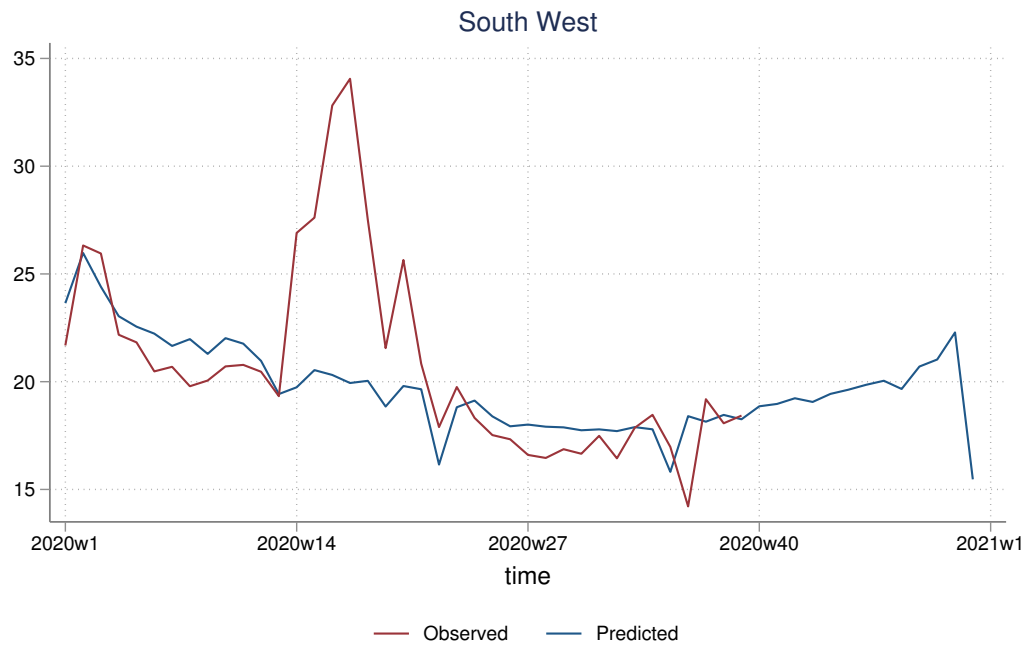


Figure 94: SW all-cause excess deaths, from 2010 week 1

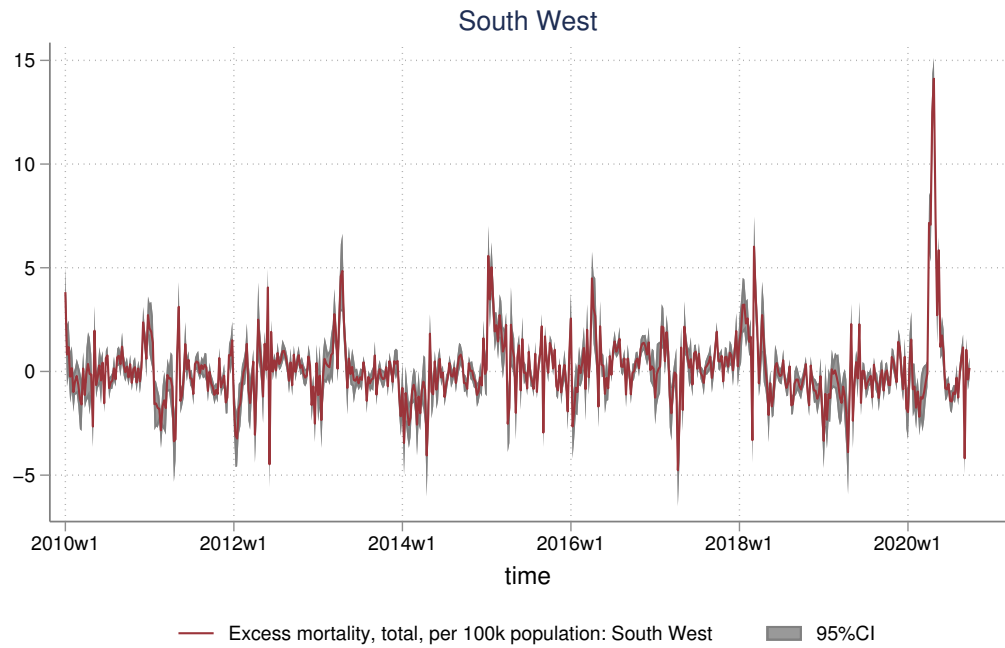


Figure 95: SW all-cause excess deaths, from 2019 week 1

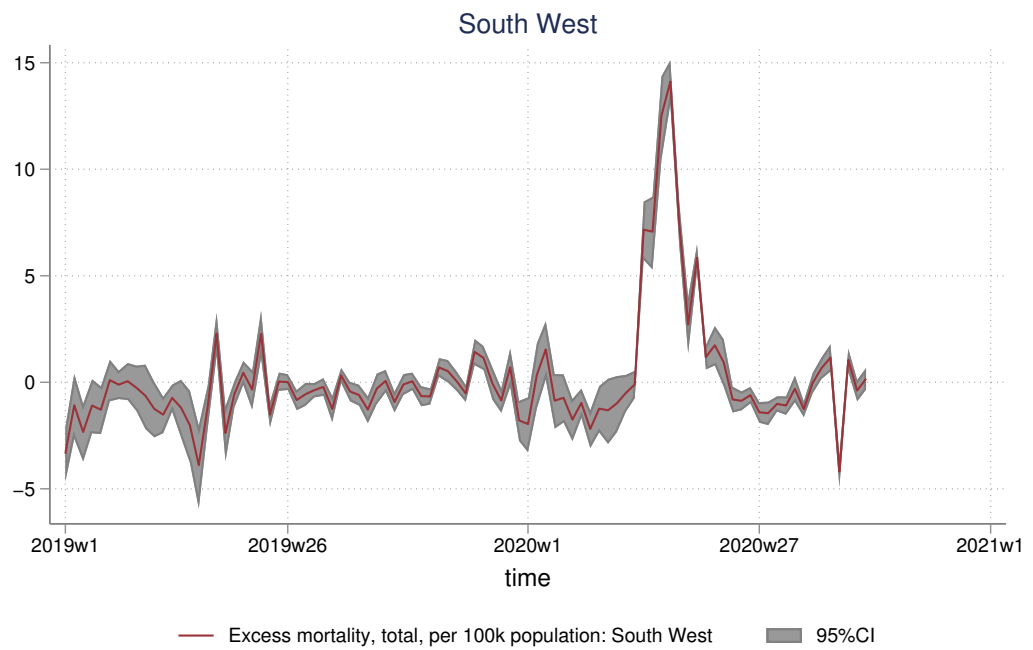


Figure 96: SW all-cause excess deaths, from 2020 week 1

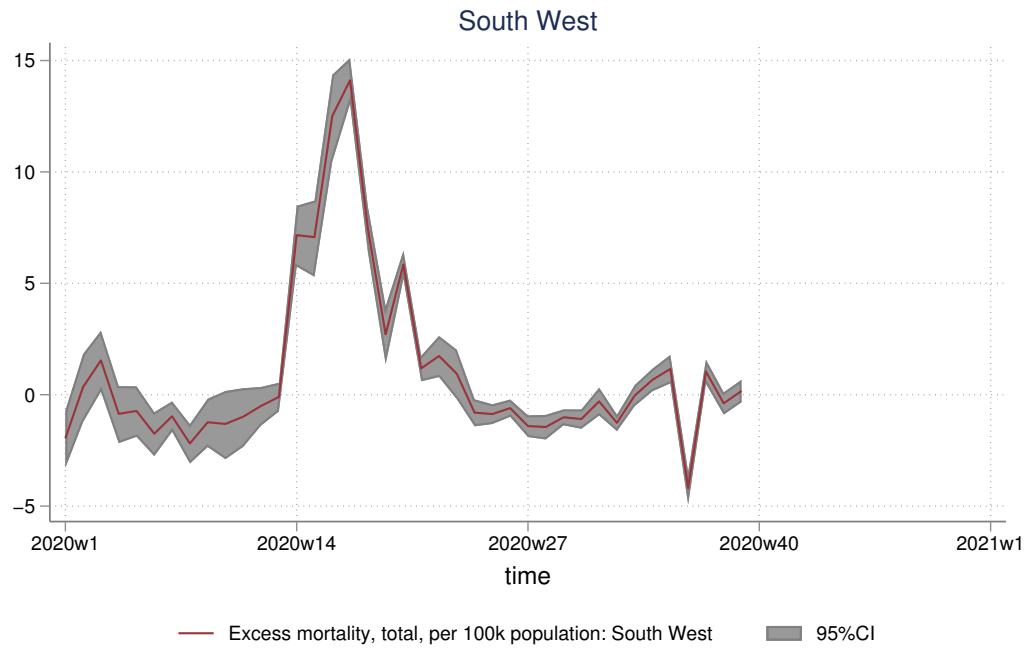


Figure 97: SW all-cause excess deaths minus COVID19, from 2010 week 1

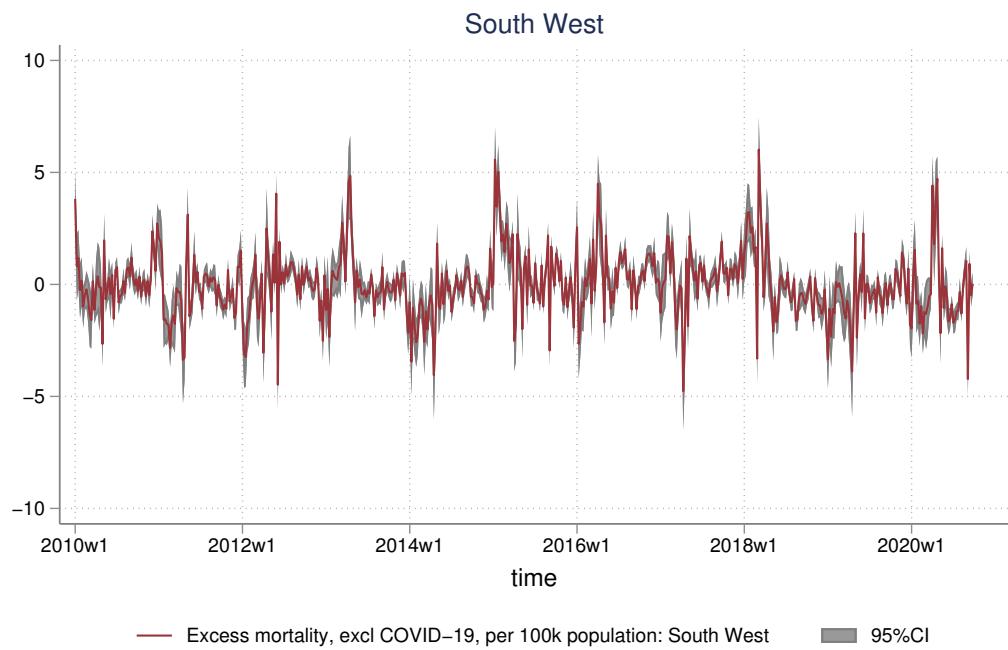


Figure 98: SW all-cause excess deaths minus COVID19, from 2019 week 1

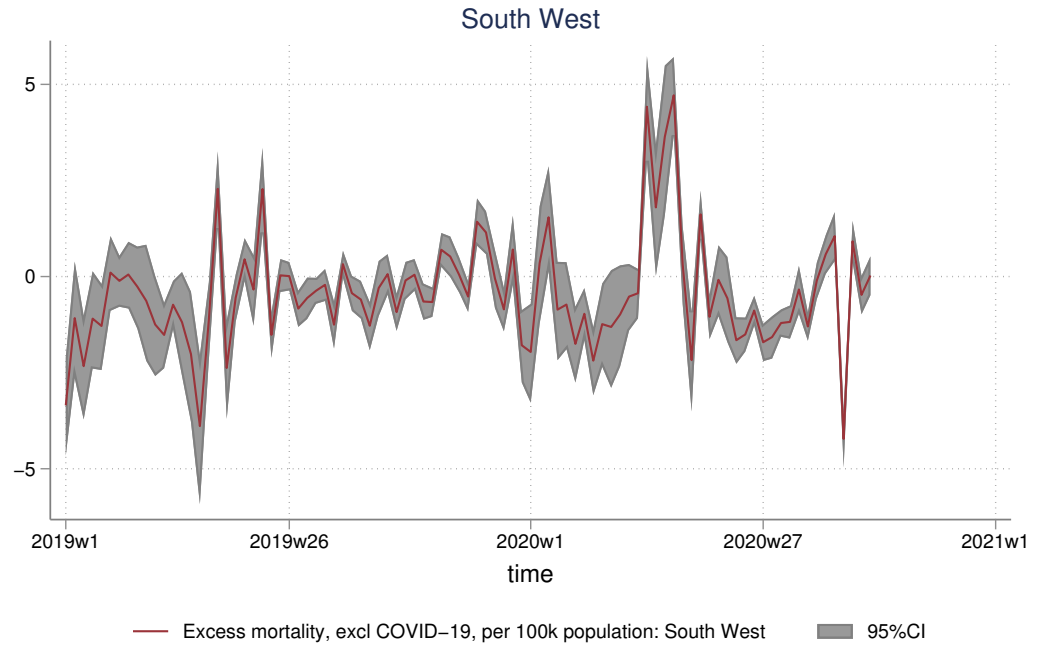
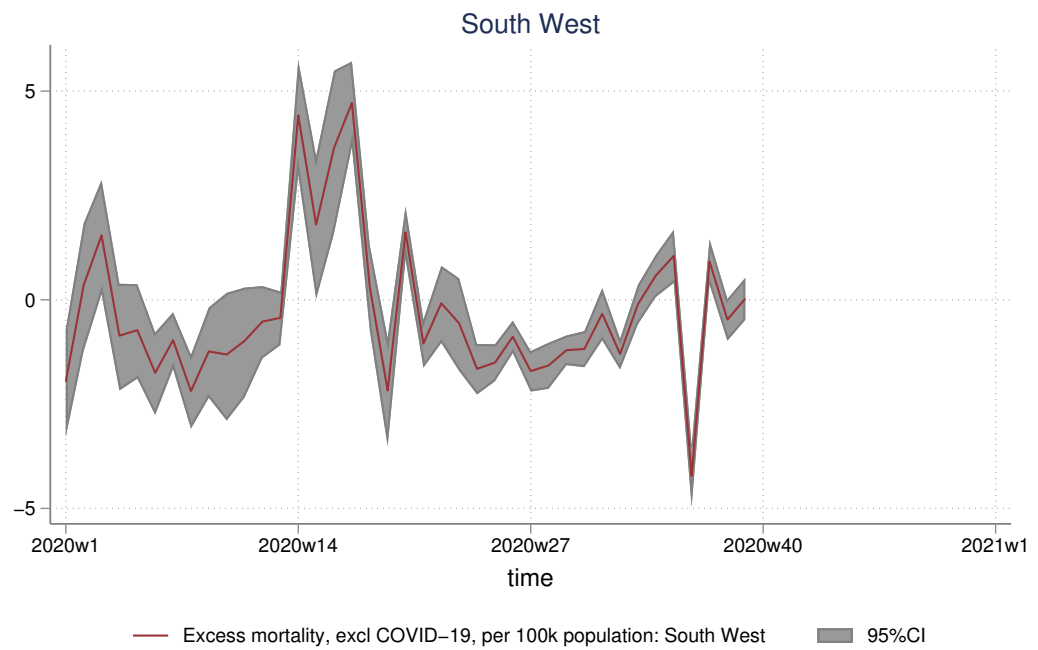


Figure 99: SW all-cause excess deaths minus COVID19, from 2020 week 1



2.11 Wales

Figure 100: Wales Mortality time trend and model, from 2010 week 1

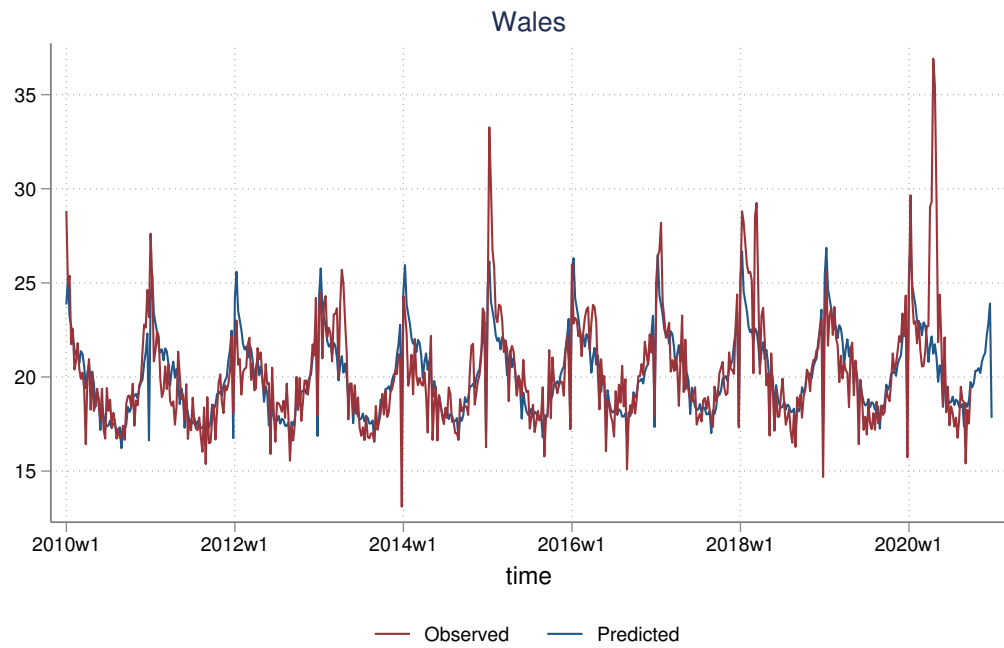


Figure 101: SE Mortality time trend and model, from 2019 week 1

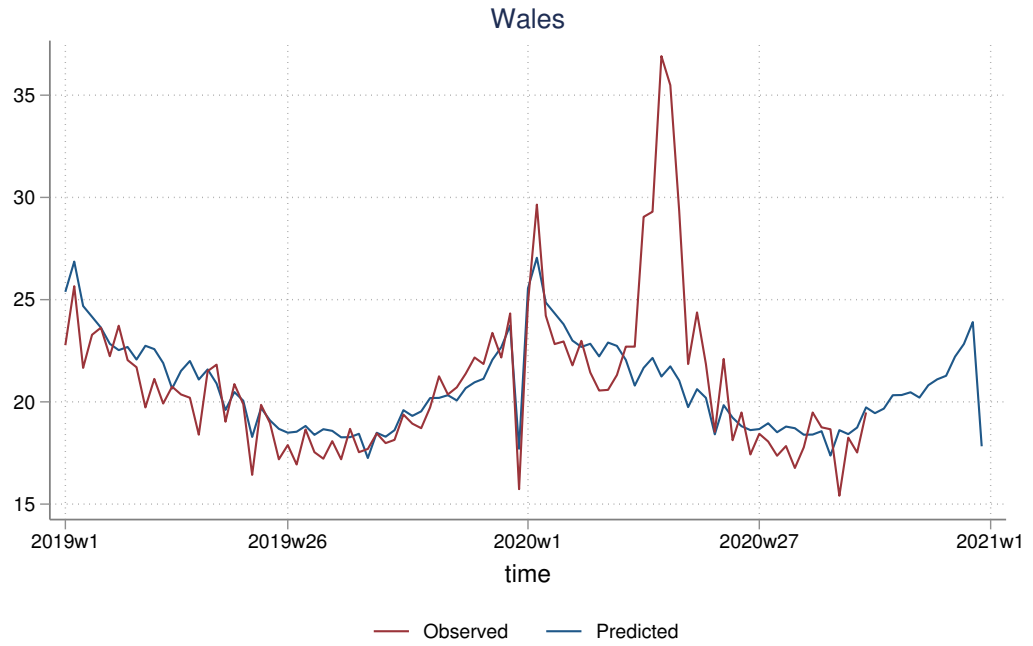


Figure 102: Wales Mortality time trend and model, from 2020 week 1

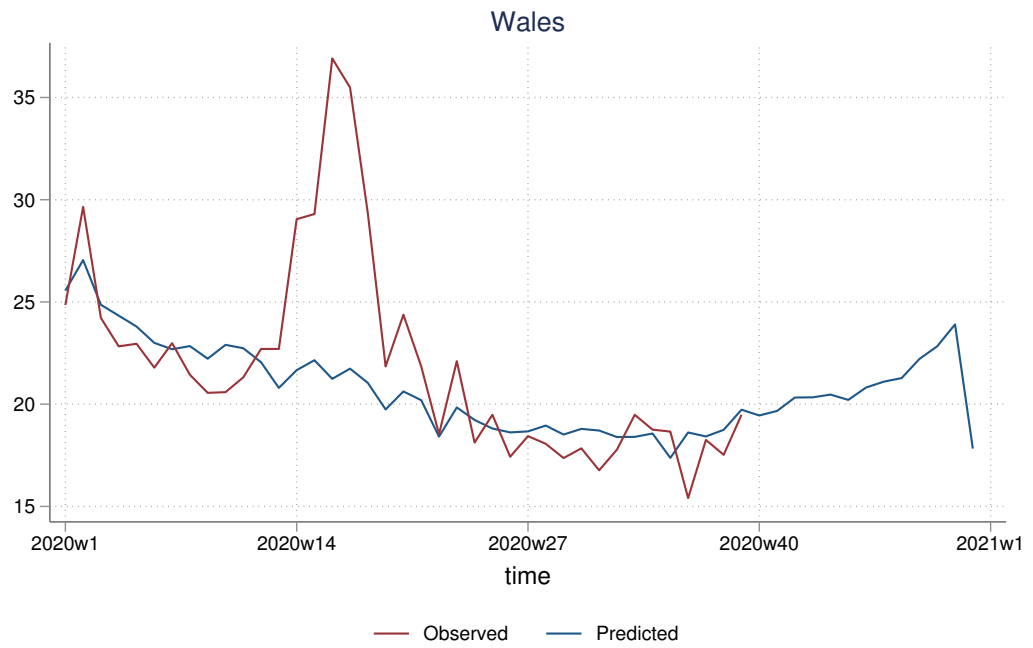


Figure 103: Wales all-cause excess deaths, from 2010 week 1

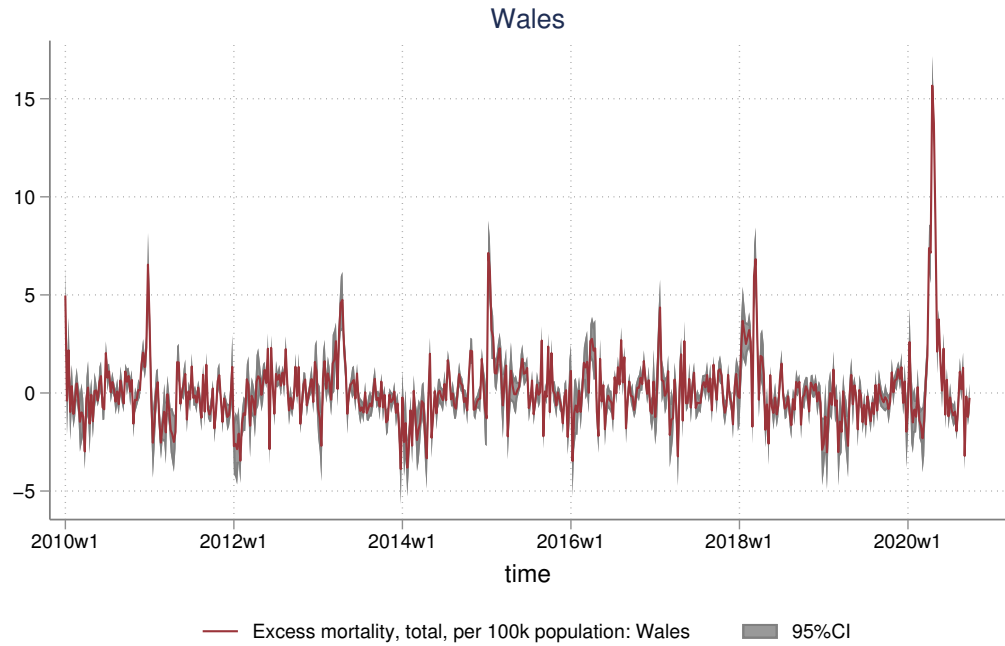


Figure 104: Wales all-cause excess deaths, from 2019 week 1

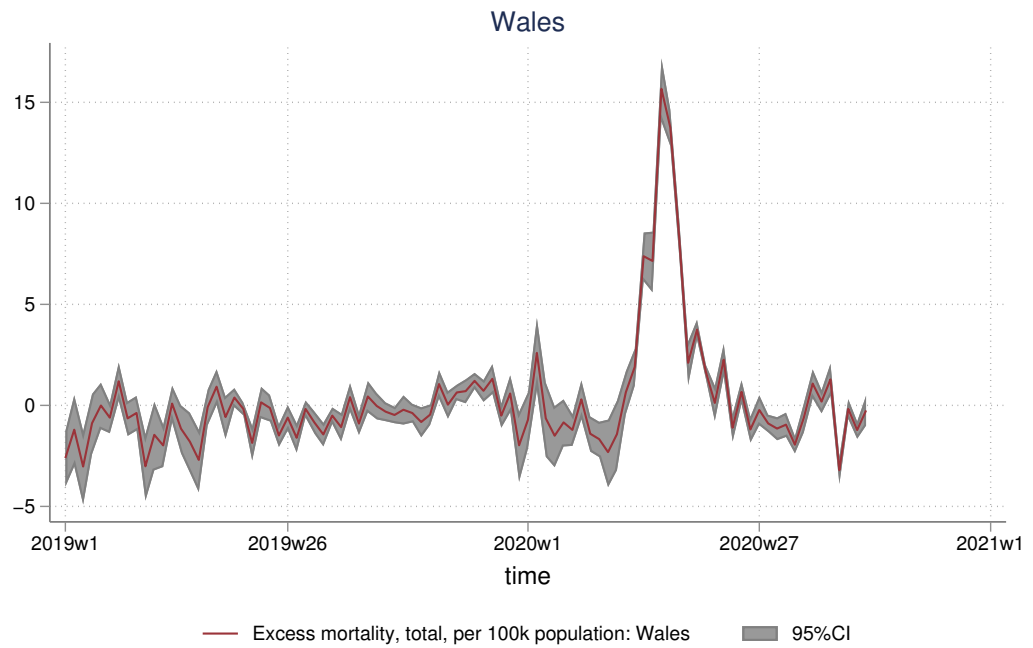


Figure 105: Wales all-cause excess deaths, from 2020 week 1

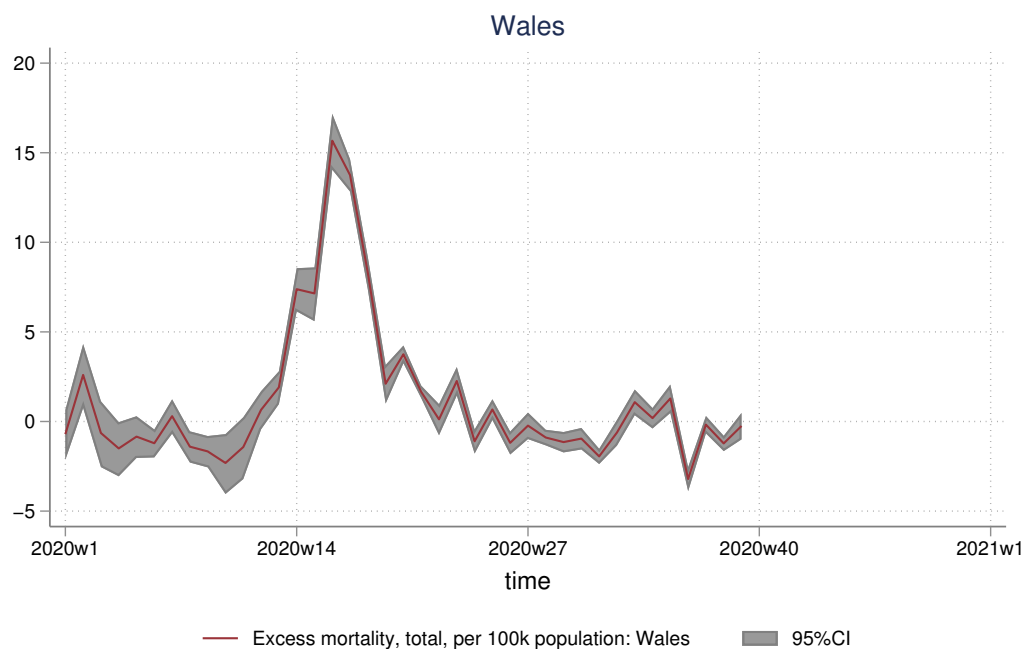


Figure 106: Wales all-cause excess deaths minus COVID19, from 2010 week 1

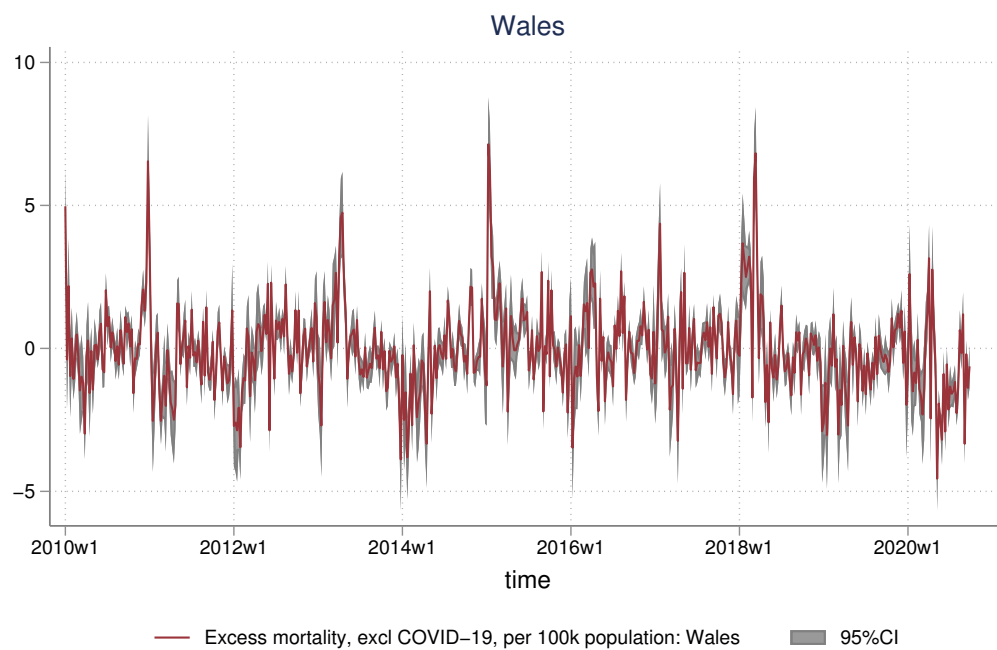


Figure 107: Wales all-cause excess deaths minus COVID19, from 2019 week 1

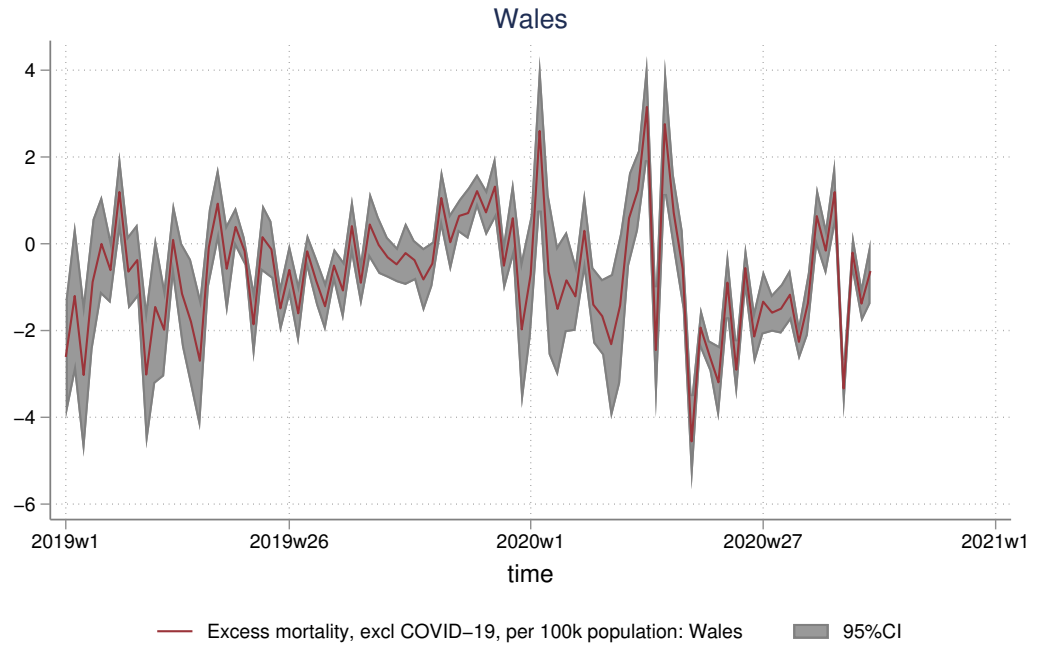
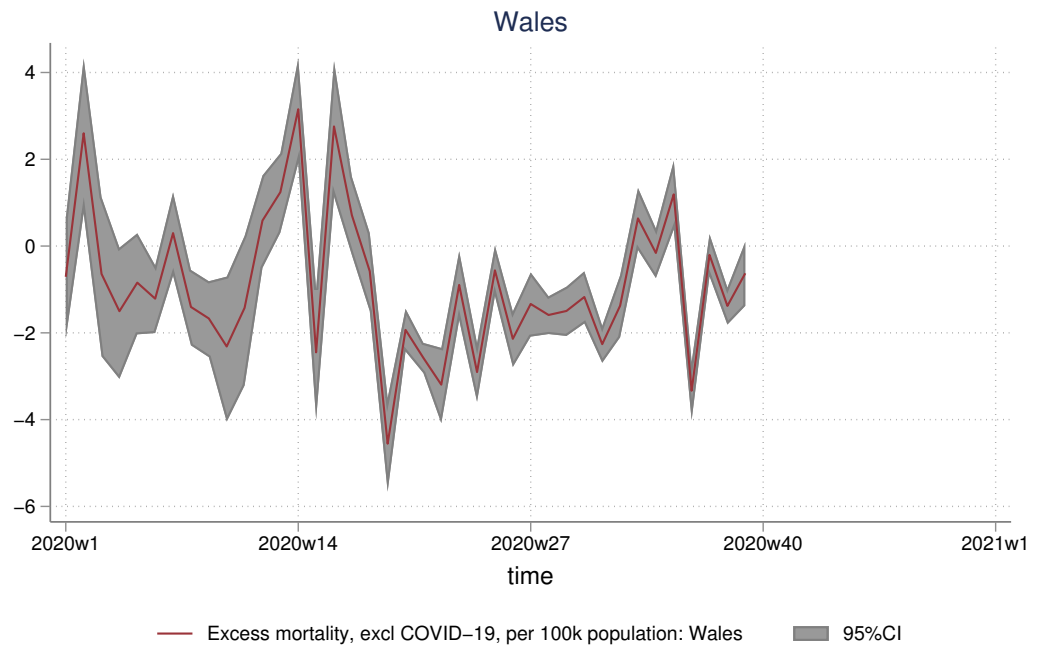


Figure 108: Wales all-cause excess deaths minus COVID19, from 2020 week 1



3 Age groups, per 100k people

3.1 Time trends

Figure 109: All age group mortality time trends, from 2010 week 1

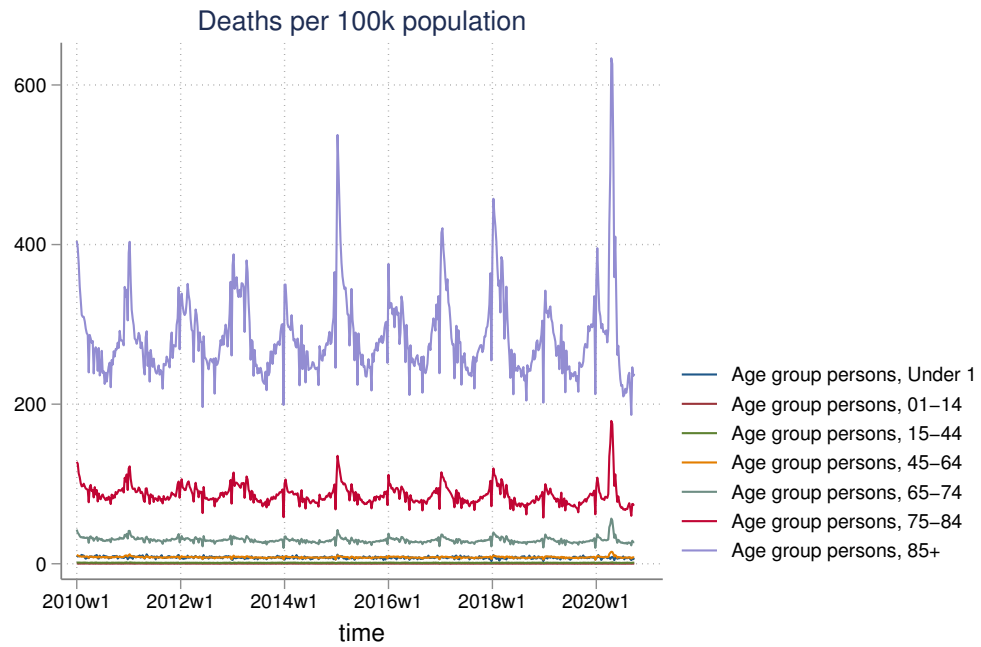


Figure 110: All age group mortality time trends, from 2019 week 1

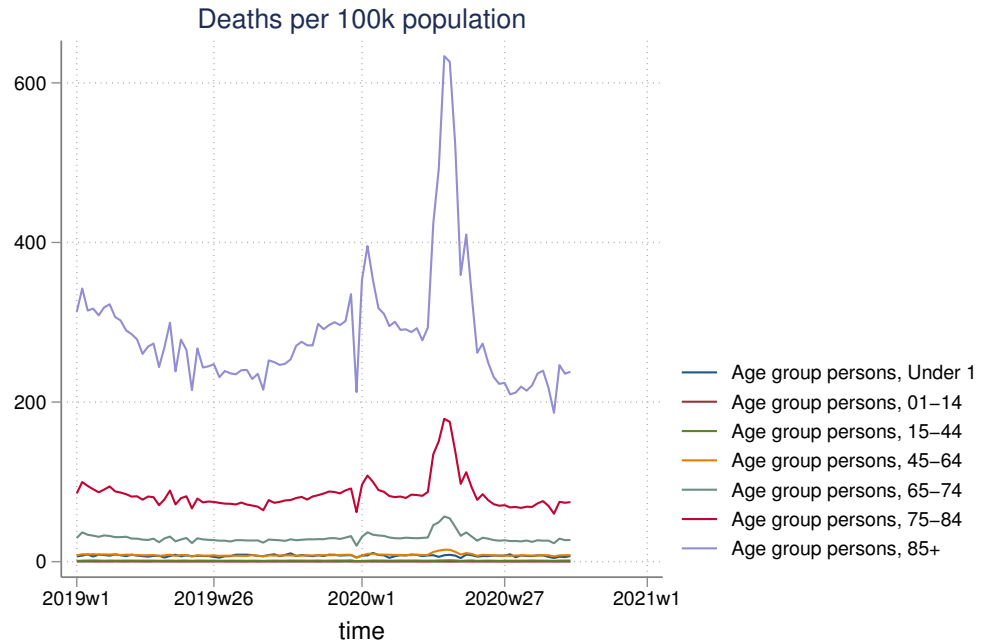
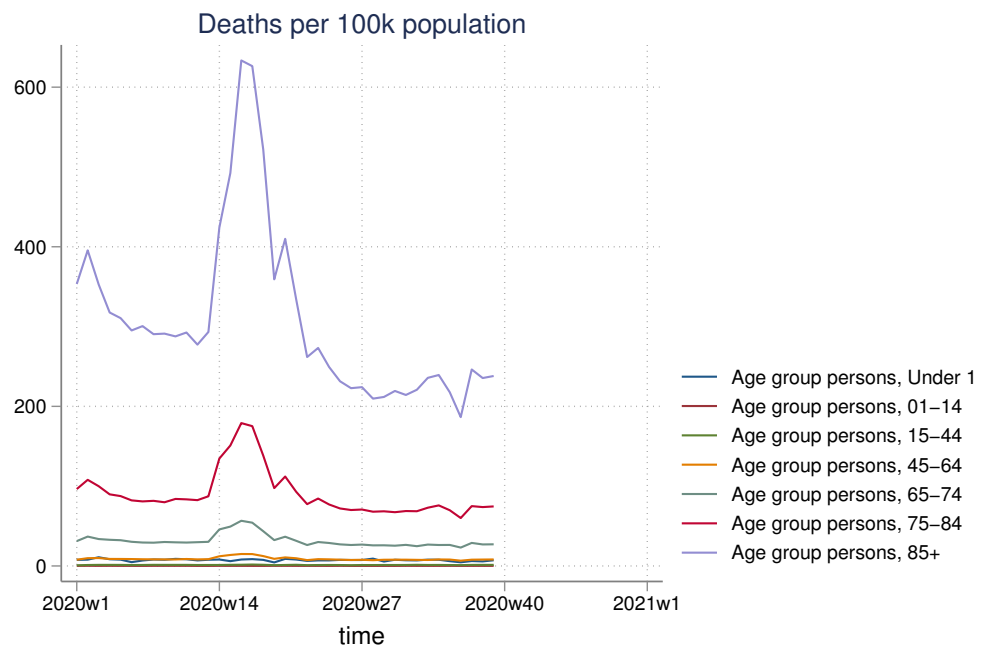


Figure 111: All age group mortality time trends, from 2020 week 1



3.2 All aged under 1

Figure 112: All < 1 mortality time trend and model, from 2010 week 1



Figure 113: All < 1 mortality time trend and model, from 2019 week 1

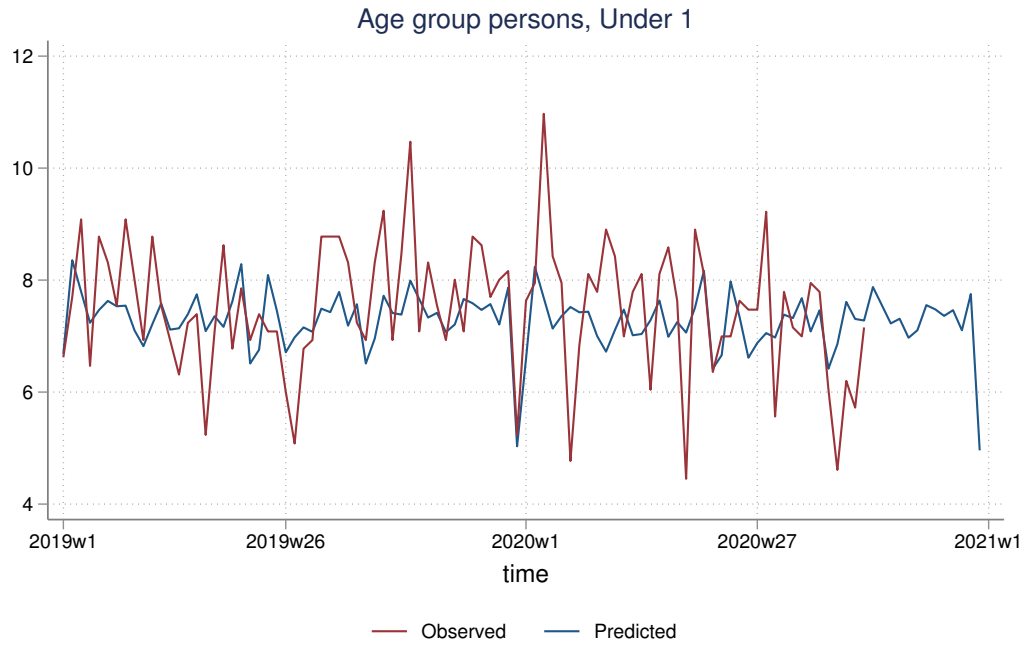


Figure 114: All < 1 mortality time trend and model, from 2020 week 1

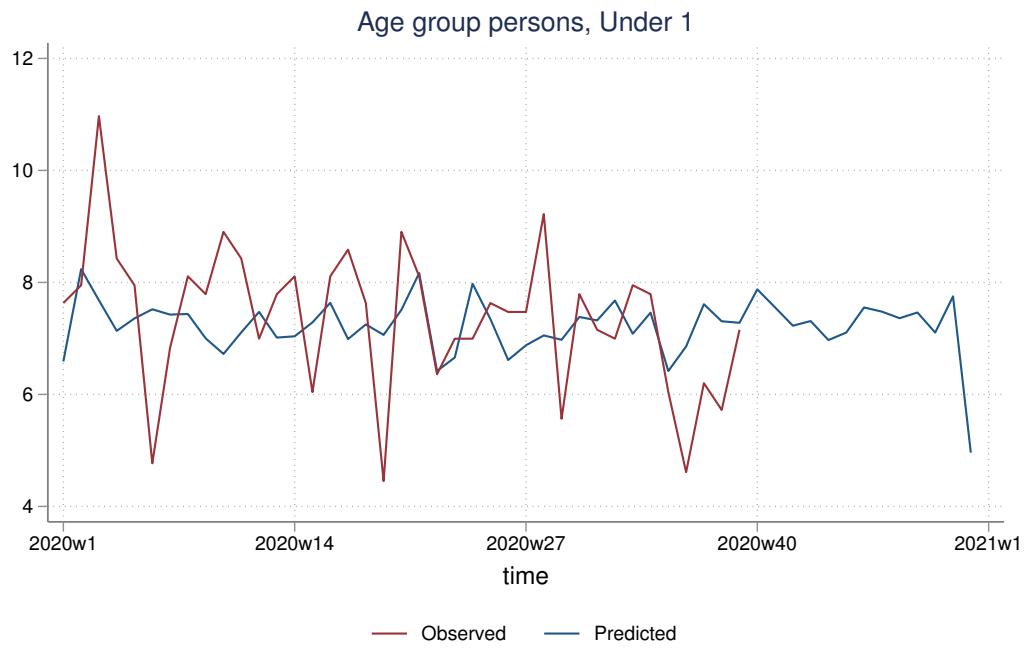


Figure 115: All < 1 all-cause excess deaths, from 2010 week 1



Figure 116: All < 1 all-cause excess deaths, from 2019 week 1



Figure 117: All < 1 all-cause excess deaths, from 2020 week 1



Figure 118: All < 1 all-cause excess deaths minus COVID19, from 2010 week 1

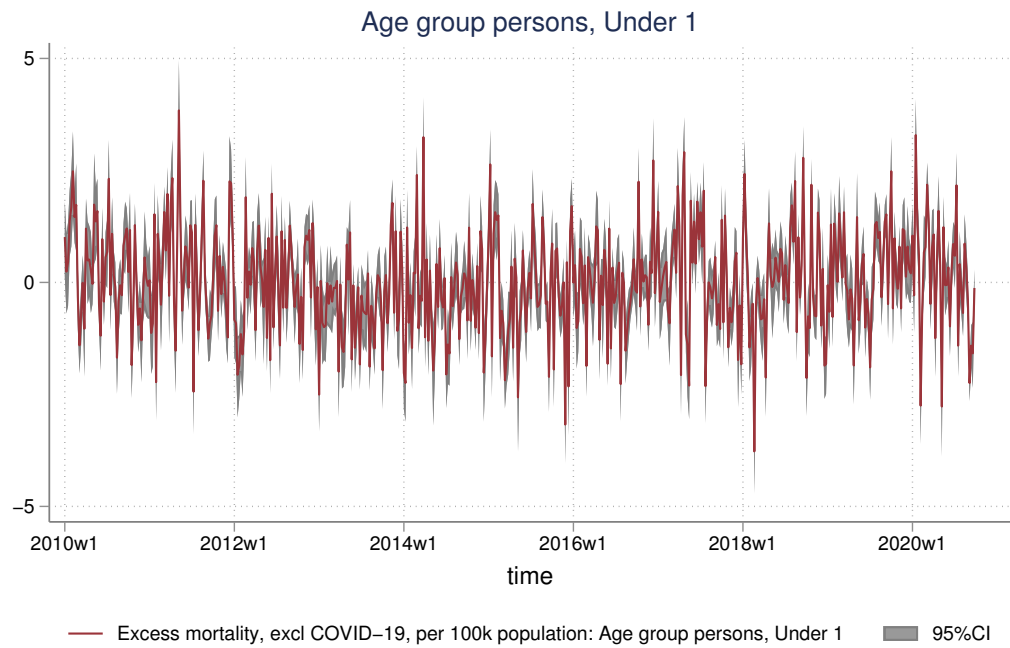


Figure 119: All < 1 all-cause excess deaths minus COVID19, from 2019 week 1

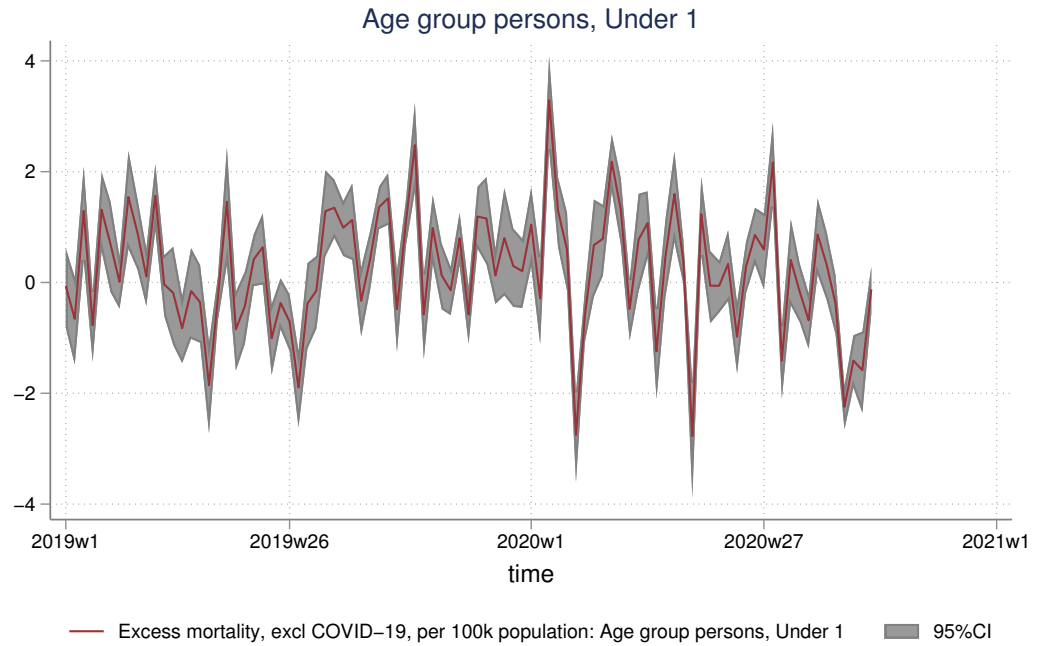
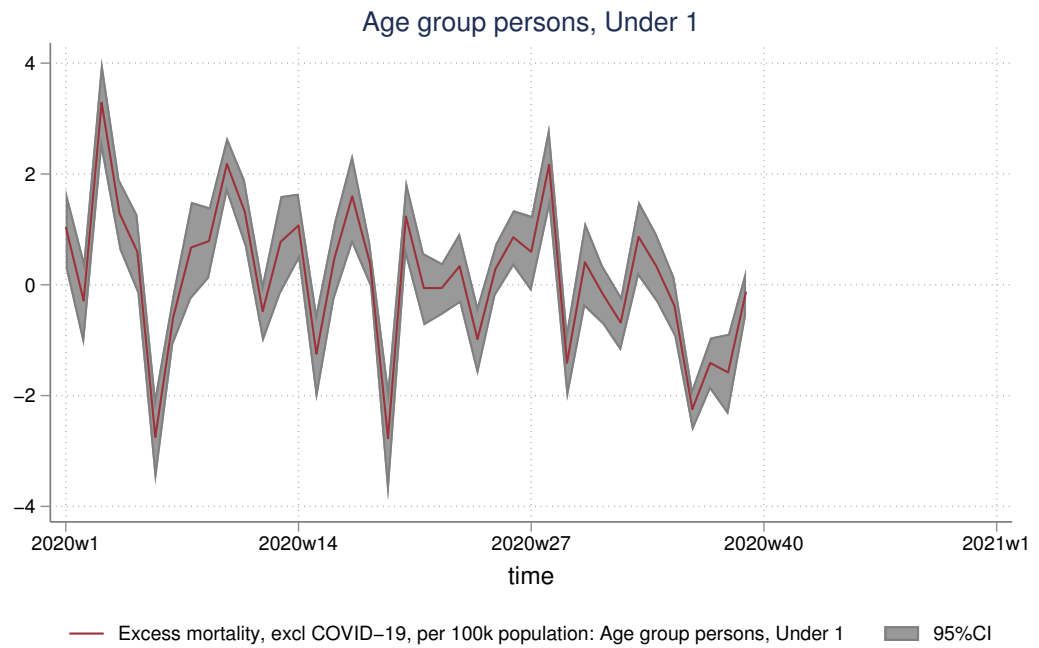


Figure 120: All < 1 all-cause excess deaths minus COVID19, from 2020 week 1



3.3 All aged 01-14

Figure 121: All 01-14 mortality time trend and model, from 2010 week 1



Figure 122: All 01-14 mortality time trend and model, from 2019 week 1

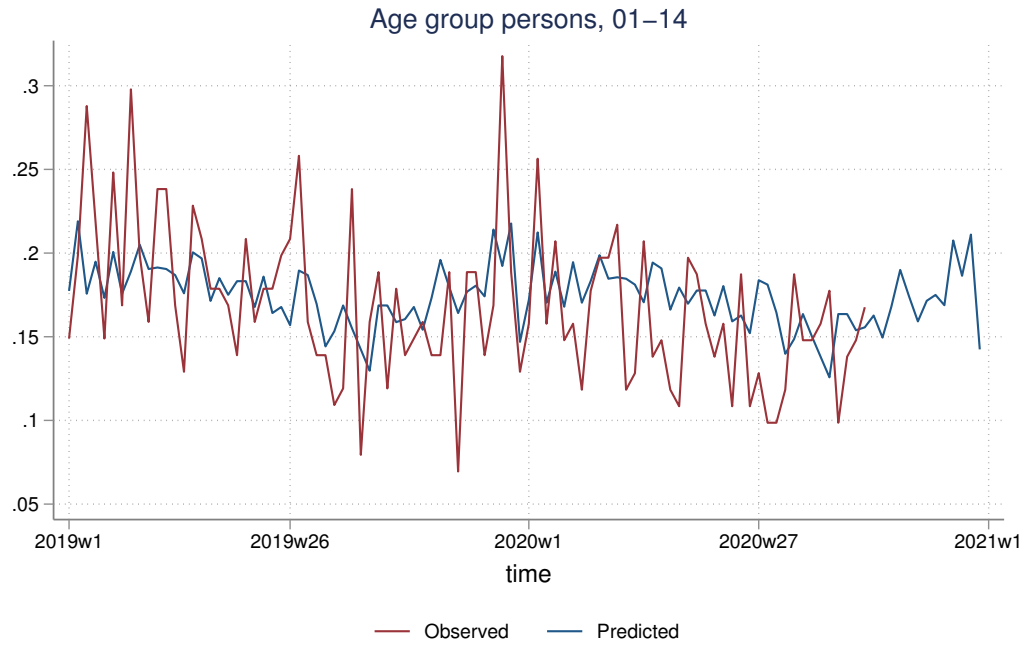


Figure 123: All 01-14 mortality time trend and model, from 2020 week 1

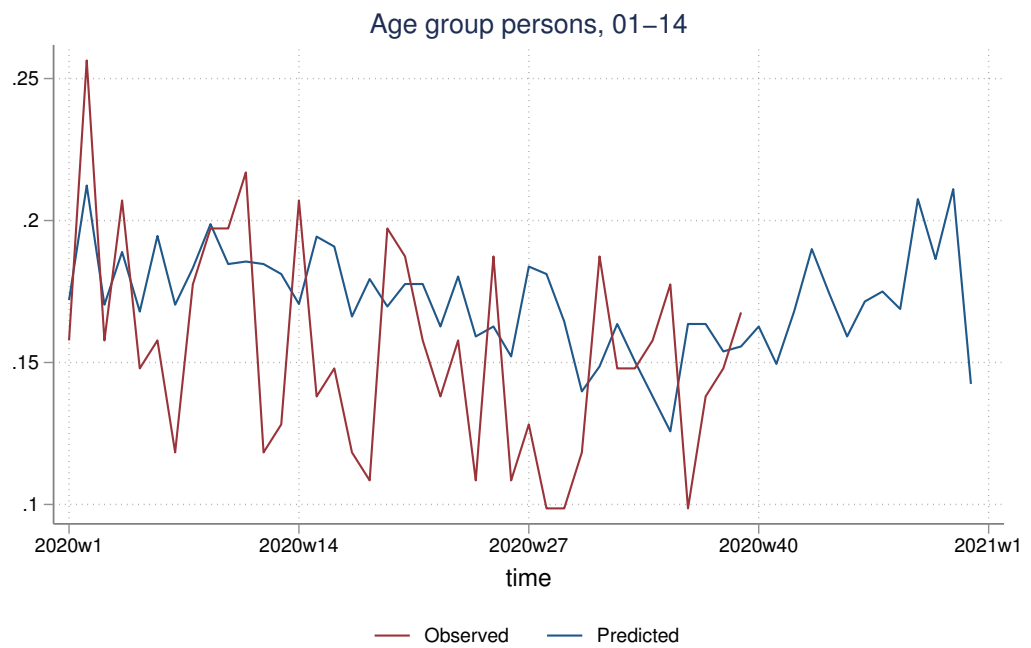


Figure 124: All 01-14 all-cause excess deaths, from 2010 week 1

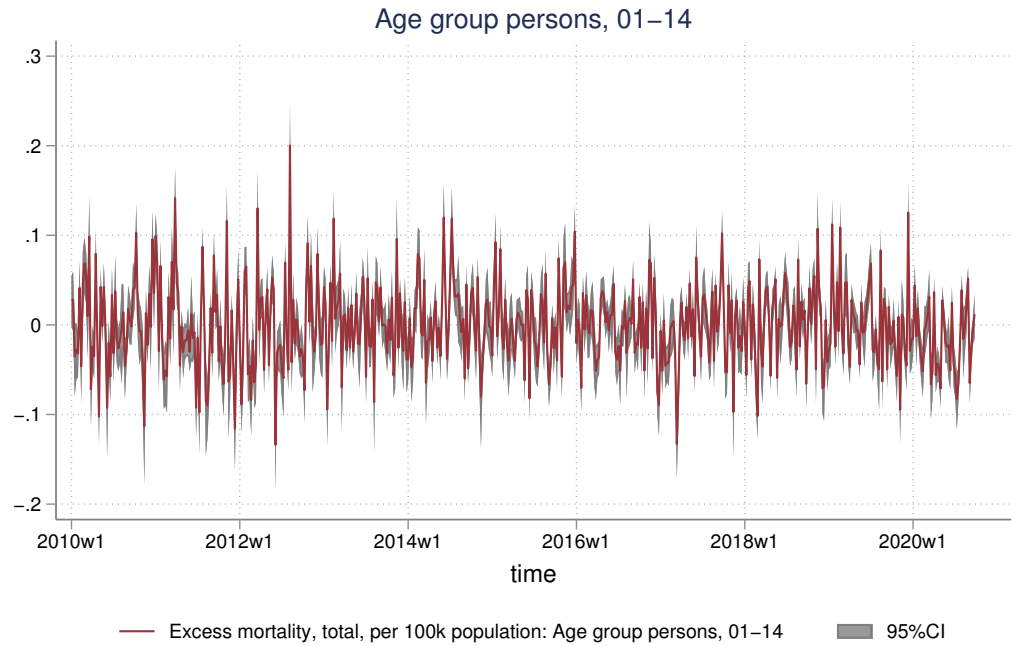


Figure 125: All 01-14 all-cause excess deaths, from 2019 week 1

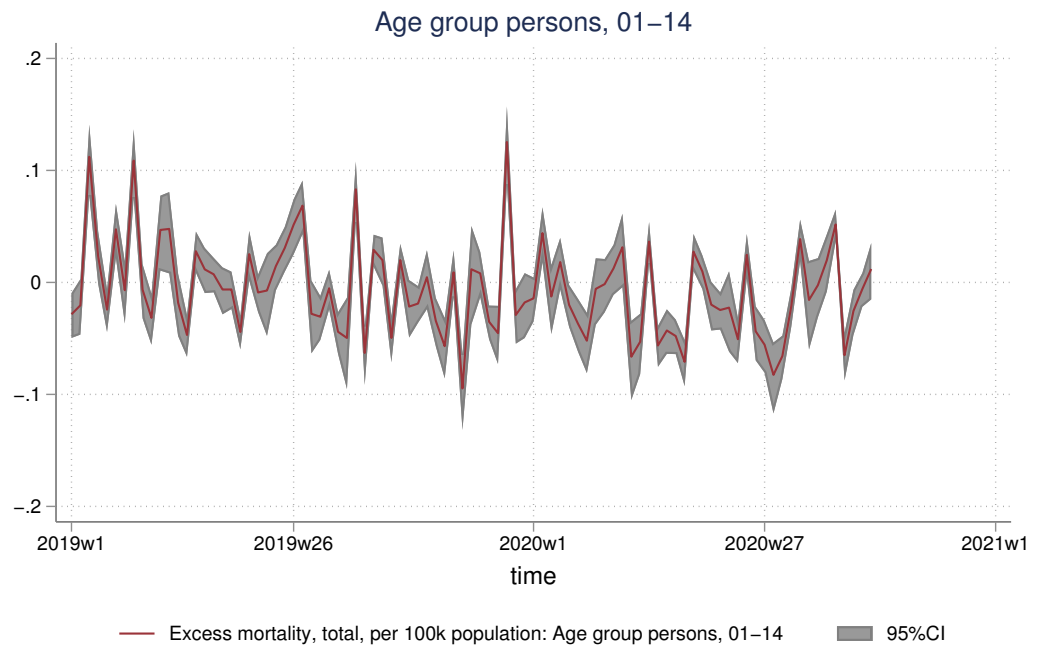


Figure 126: All 01-14 all-cause excess deaths, from 2020 week 1



Figure 127: All 01-14 all-cause excess deaths (-COVID19), from 2010 week 1

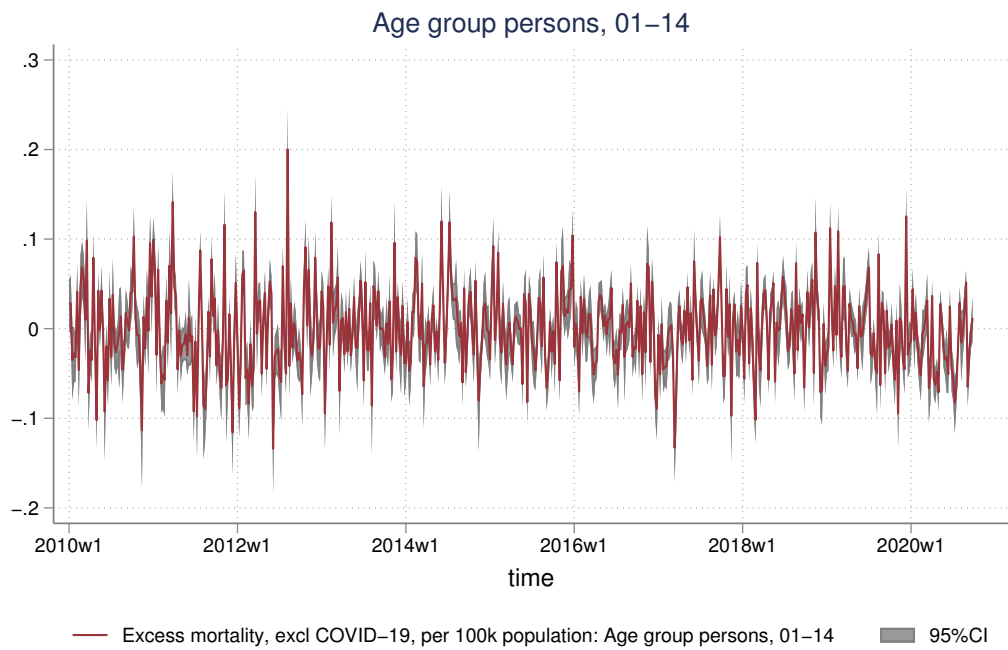


Figure 128: All 01-14 all-cause excess deaths (-COVID19), from 2019 week 1

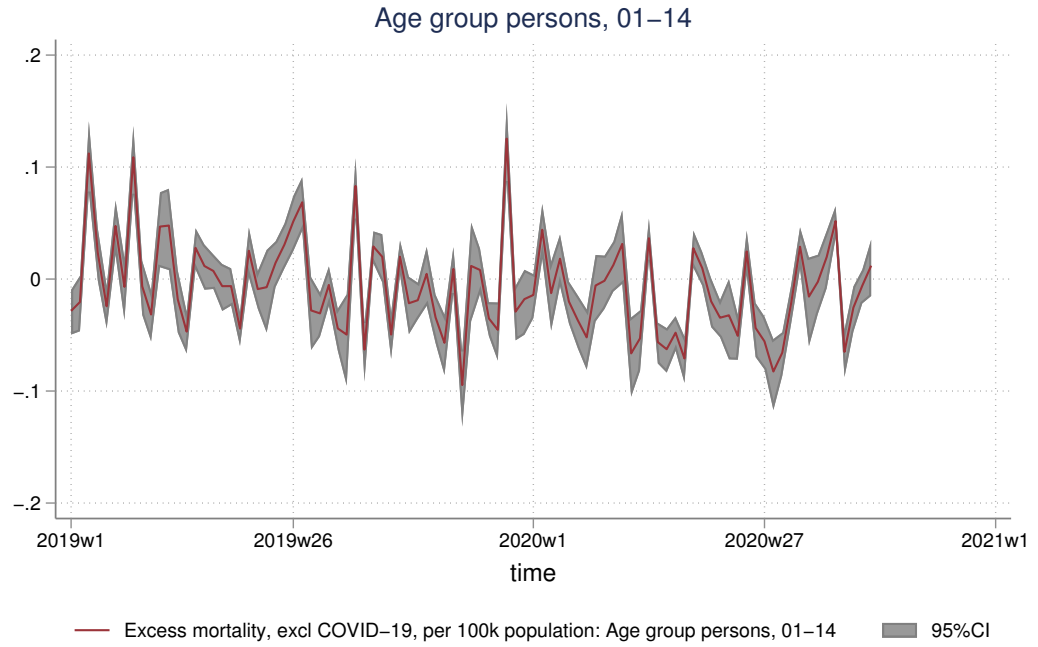


Figure 129: All 01-14 all-cause excess deaths (-COVID19), from 2020 week 1



3.4 All aged 15-44

Figure 130: All 15-44 mortality time trend and model, from 2010 week 1



Figure 131: All 15-44 mortality time trend and model, from 2019 week 1



Figure 132: All 15-44 mortality time trend and model, from 2020 week 1



Figure 133: All 15-44 all-cause excess deaths, from 2010 week 1

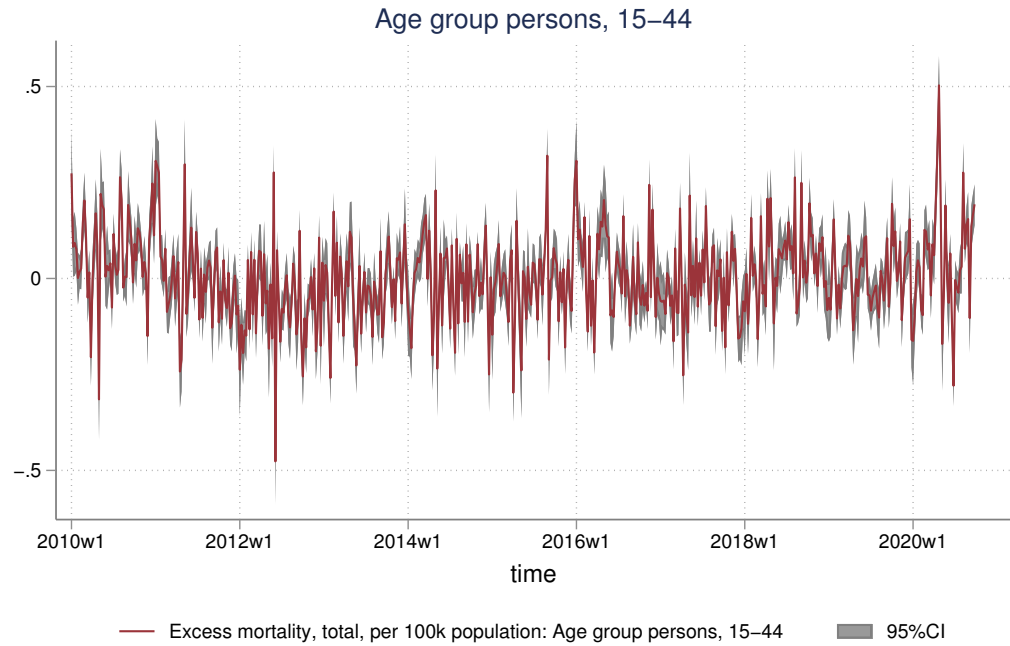


Figure 134: All 15-44 all-cause excess deaths, from 2019 week 1

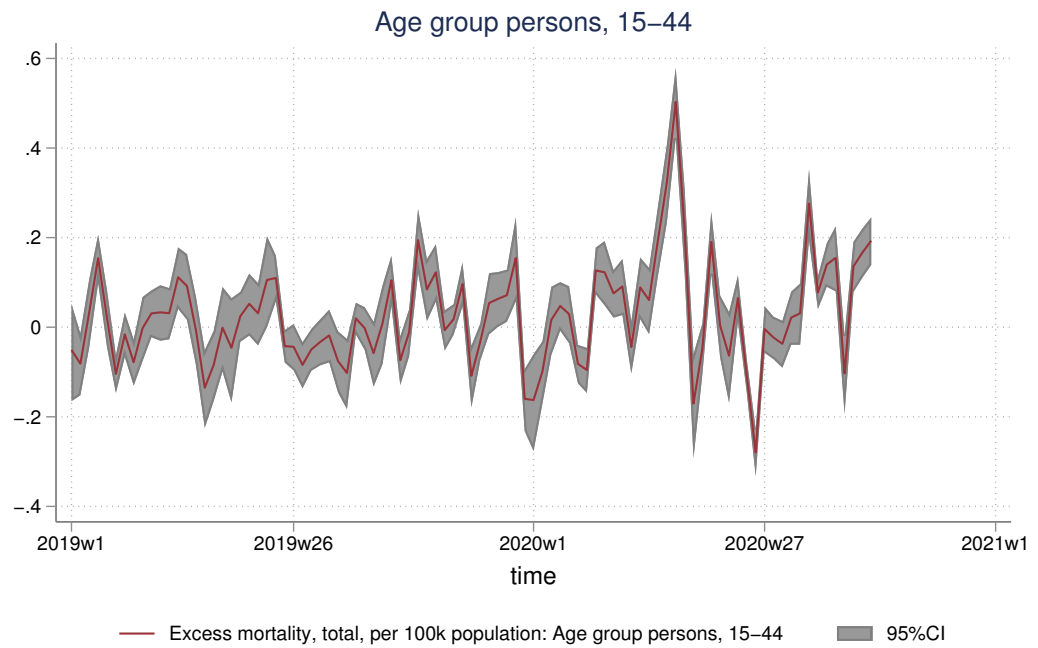


Figure 135: All 15-44 all-cause excess deaths, from 2020 week 1



Figure 136: All 15-44 all-cause excess deaths (-COVID19), from 2010 week 1

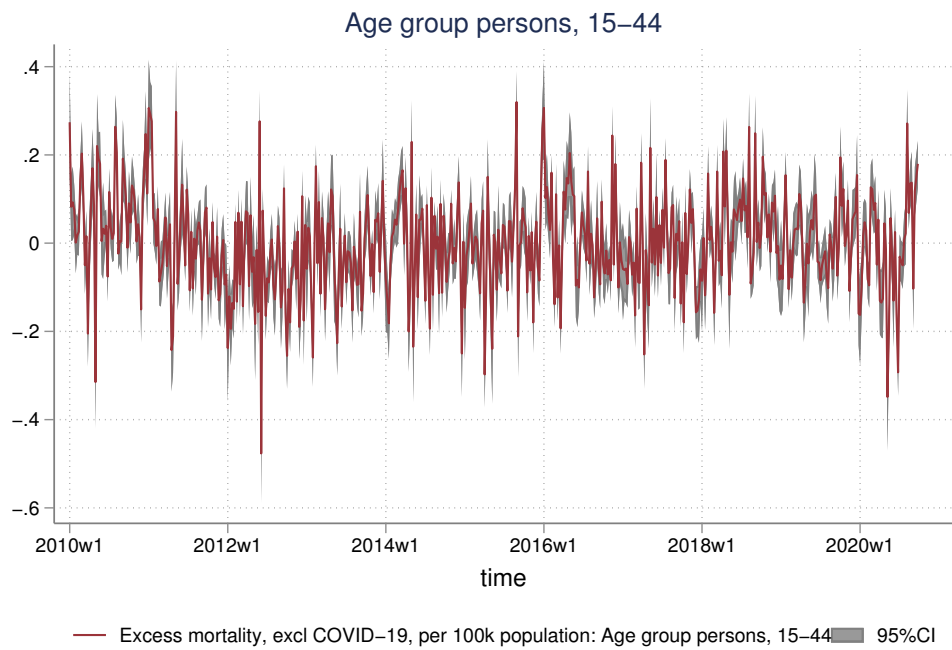


Figure 137: All 15-44 all-cause excess deaths (-COVID19), from 2019 week 1

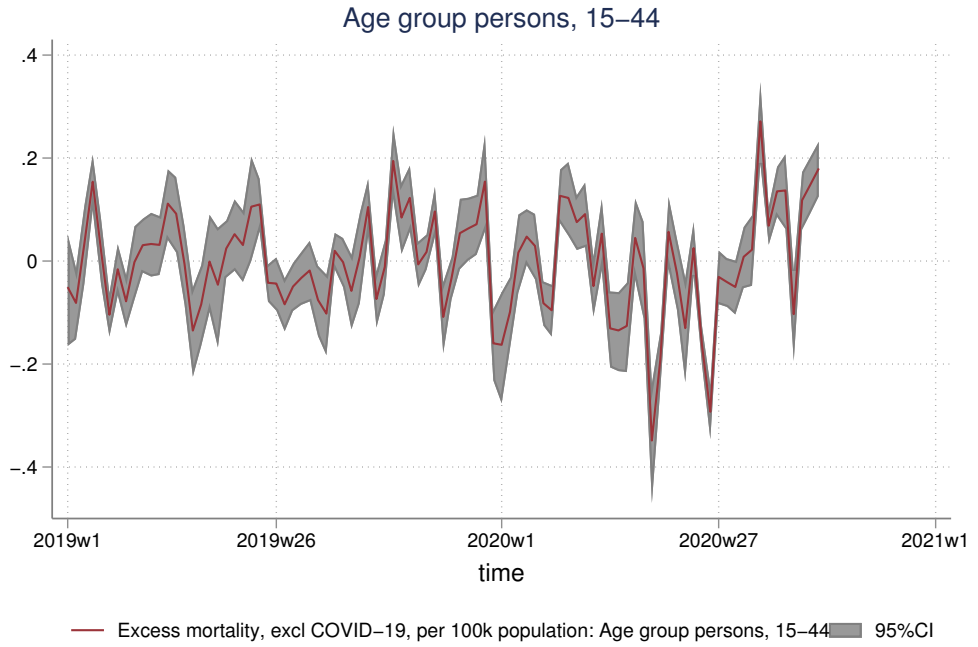
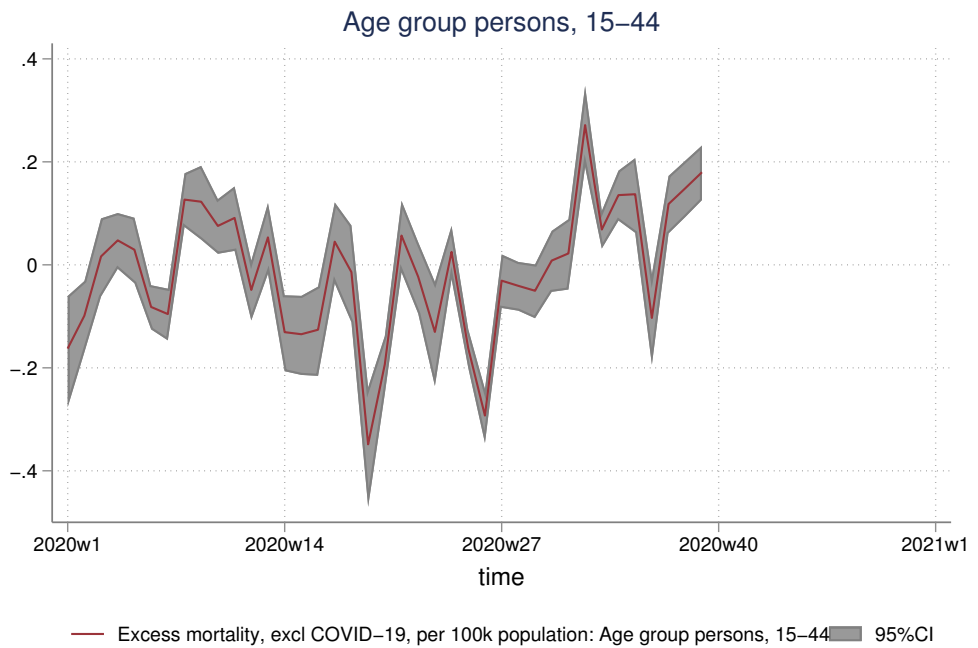


Figure 138: All 15-44 all-cause excess deaths (-COVID19), from 2020 week 1



3.5 All aged 45-64

Figure 139: All 45-64 mortality time trend and model, from 2010 week 1

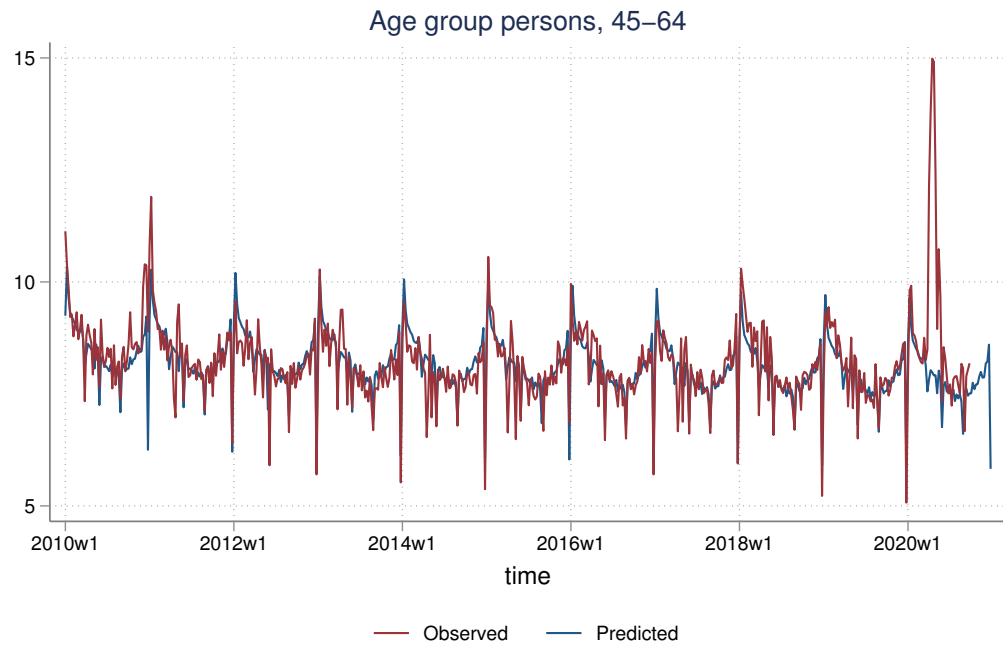


Figure 140: All 45-64 mortality time trend and model, from 2019 week 1

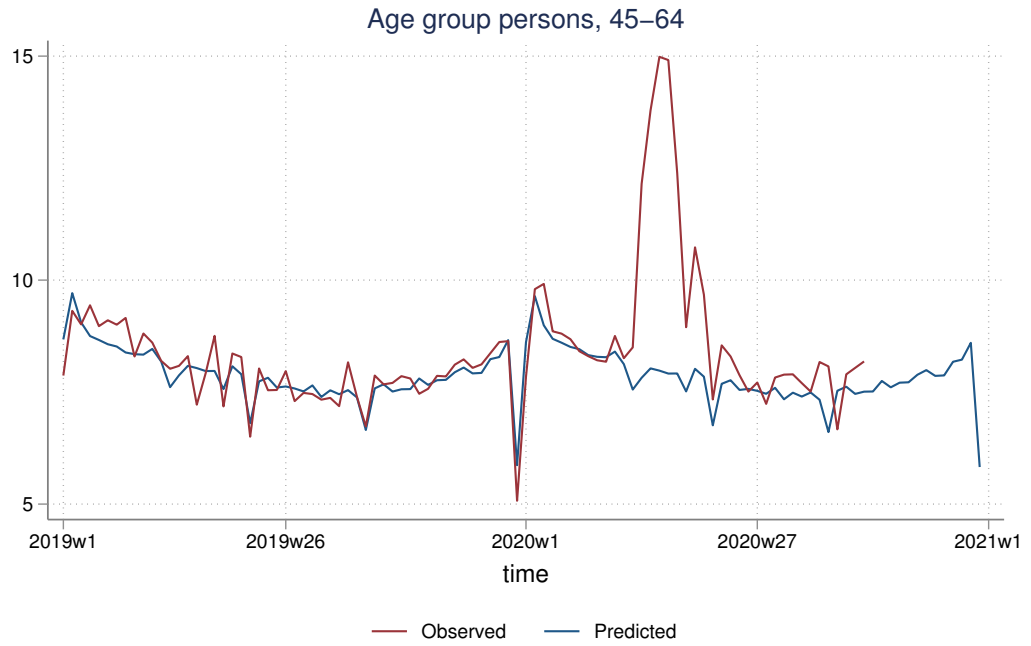


Figure 141: All 45-64 mortality time trend and model, from 2020 week 1

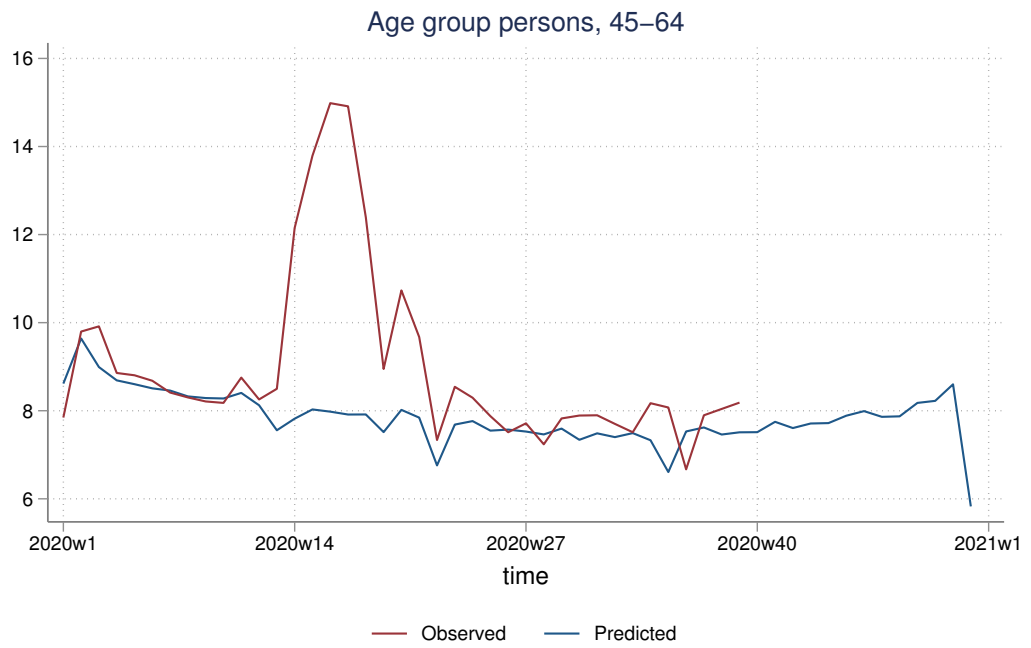


Figure 142: All 45-64 all-cause excess deaths, from 2010 week 1

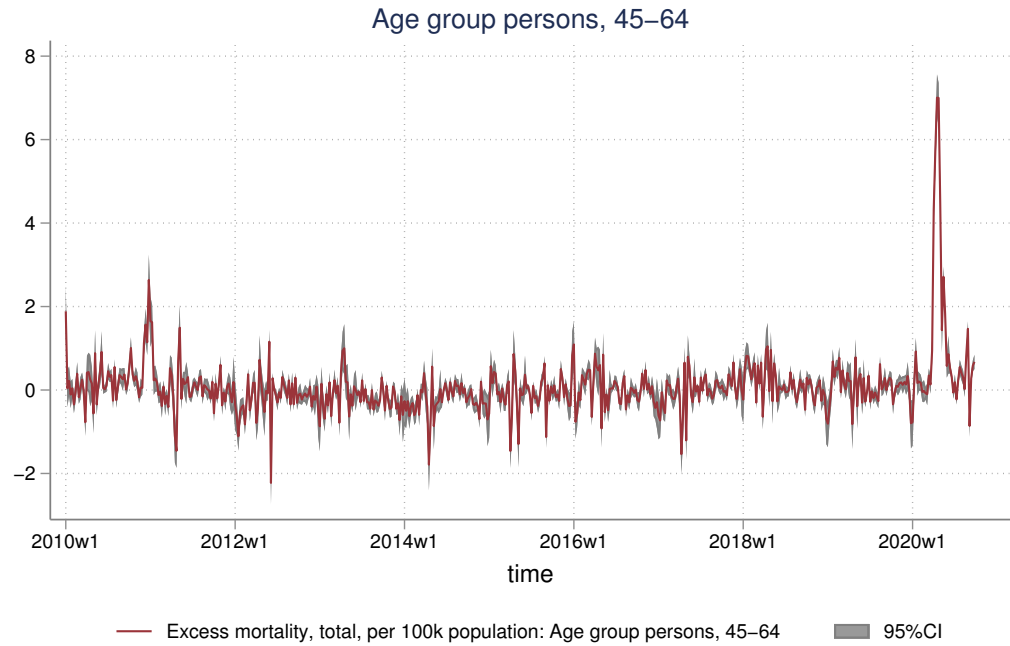


Figure 143: All 45-64 all-cause excess deaths, from 2019 week 1

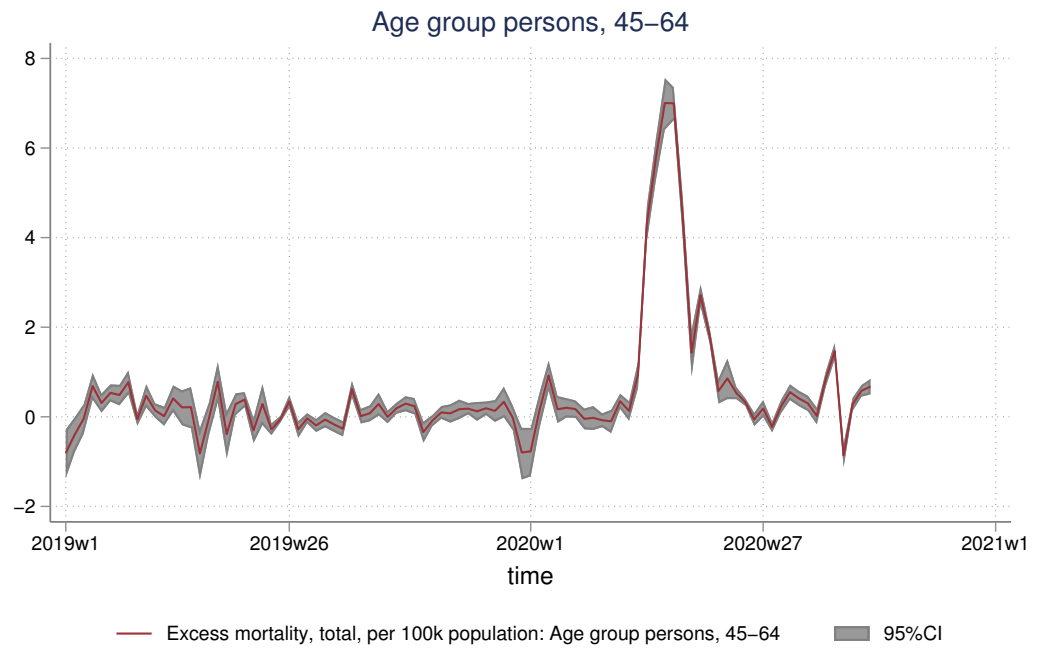


Figure 144: All 45-64 all-cause excess deaths, from 2020 week 1



Figure 145: All 45-64 all-cause excess deaths (-COVID19), from 2010 week 1



Figure 146: All 45-64 all-cause excess deaths (-COVID19), from 2019 week 1

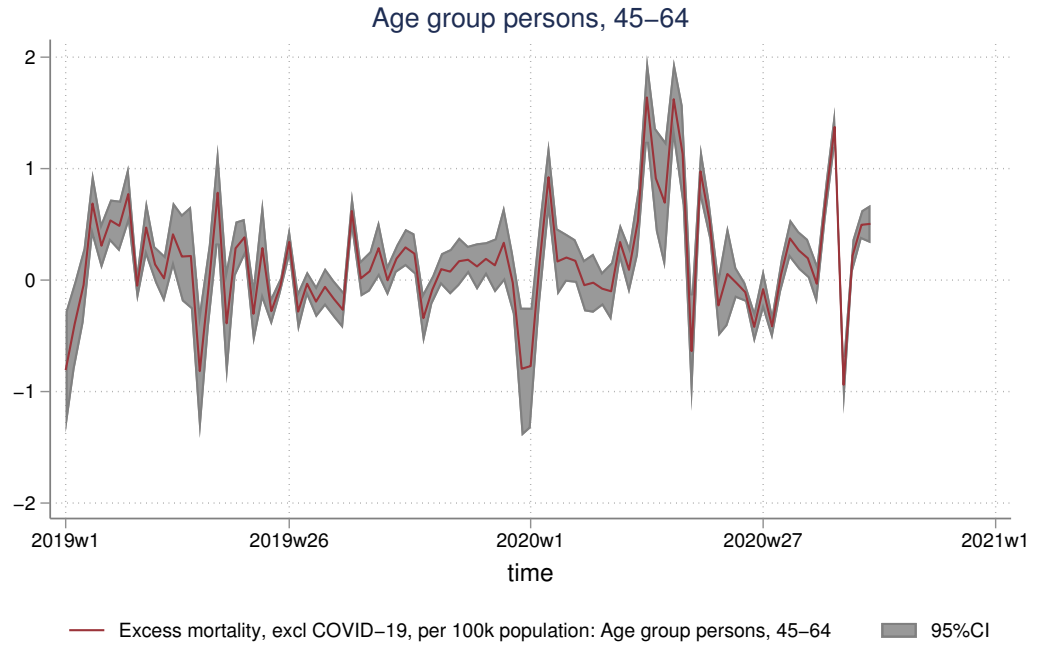
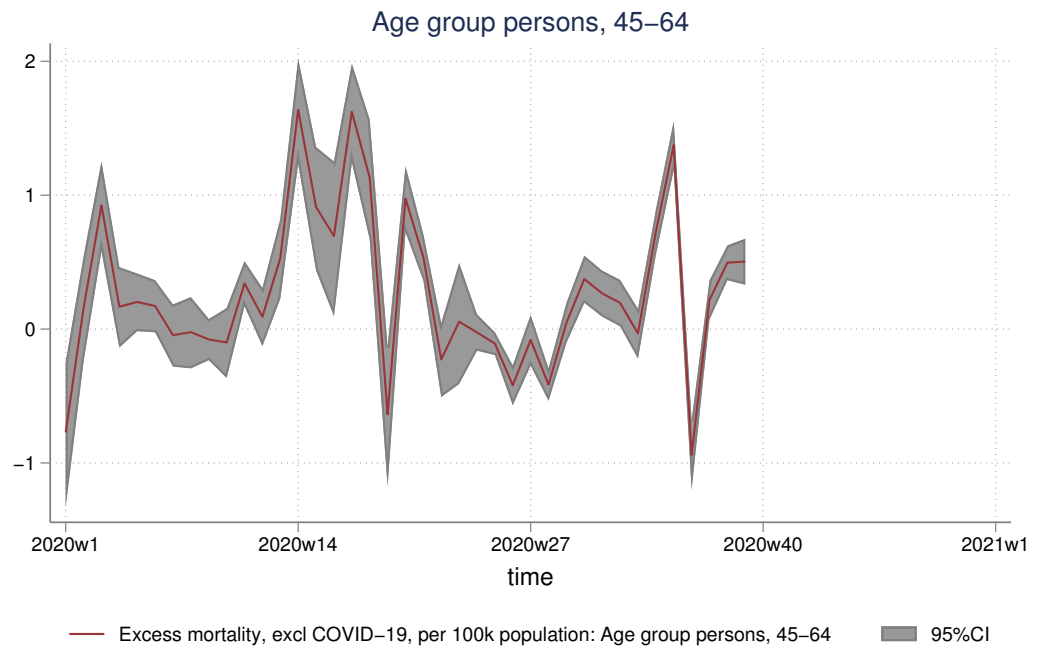


Figure 147: All 45-64 all-cause excess deaths (-COVID19), from 2020 week 1



3.6 All aged 65-74

Figure 148: All 65-74 mortality time trend and model, from 2010 week 1

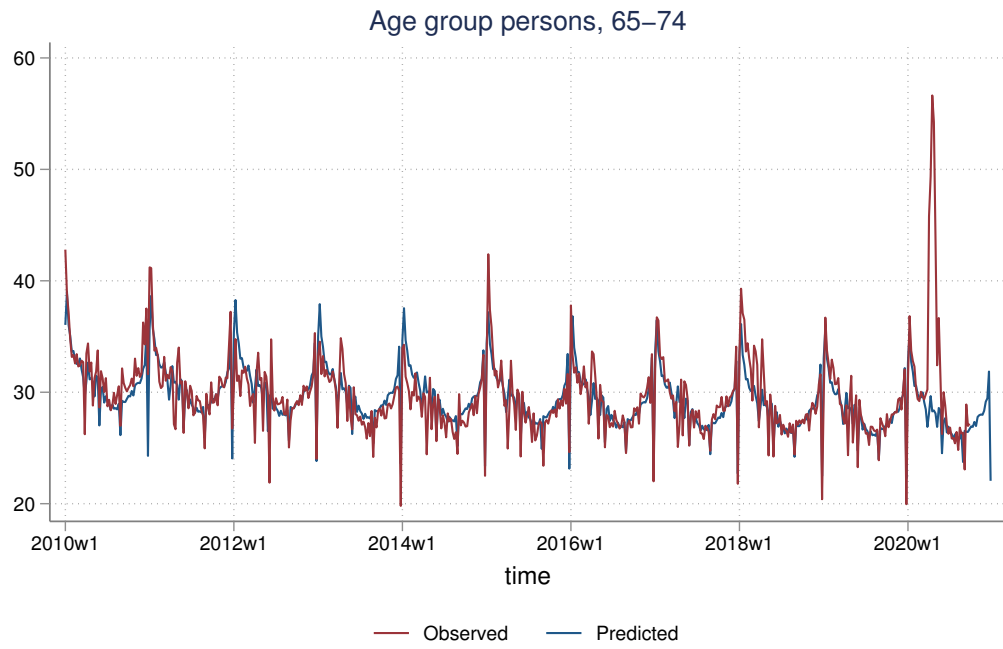


Figure 149: All 65-74 mortality time trend and model, from 2019 week 1

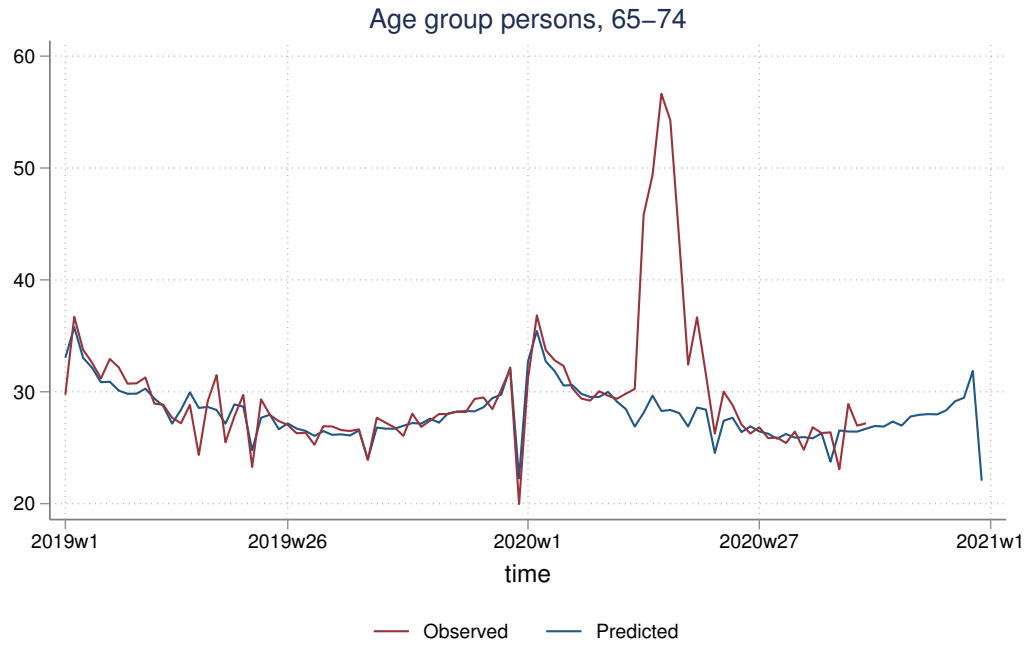


Figure 150: All 65-74 mortality time trend and model, from 2020 week 1

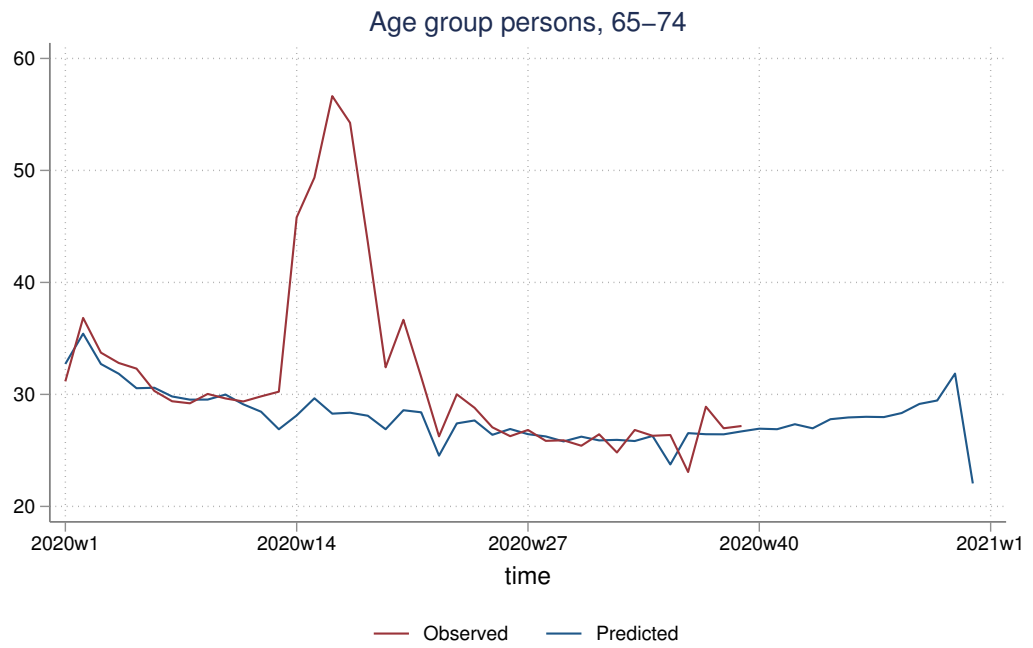


Figure 151: All 65-74 all-cause excess deaths, from 2010 week 1

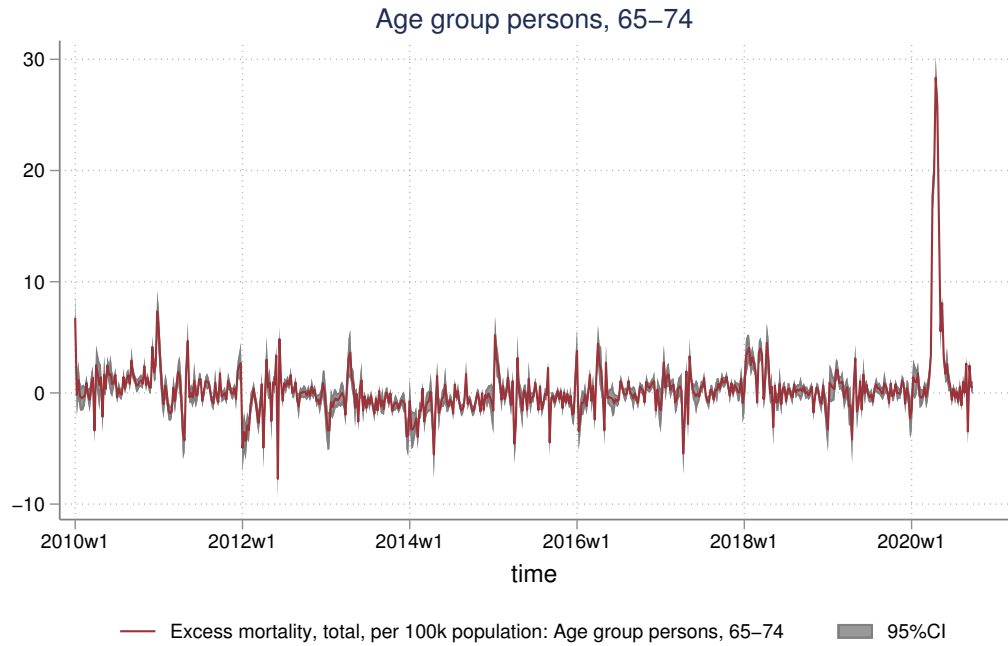


Figure 152: All 65-74 all-cause excess deaths, from 2019 week 1

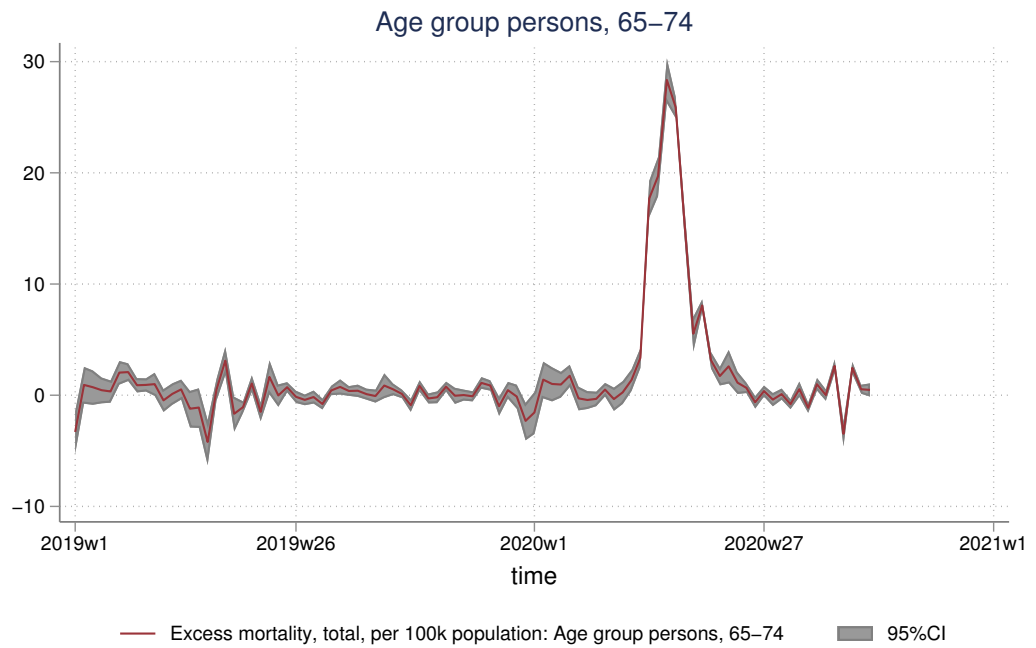


Figure 153: All 65-74 all-cause excess deaths, from 2020 week 1

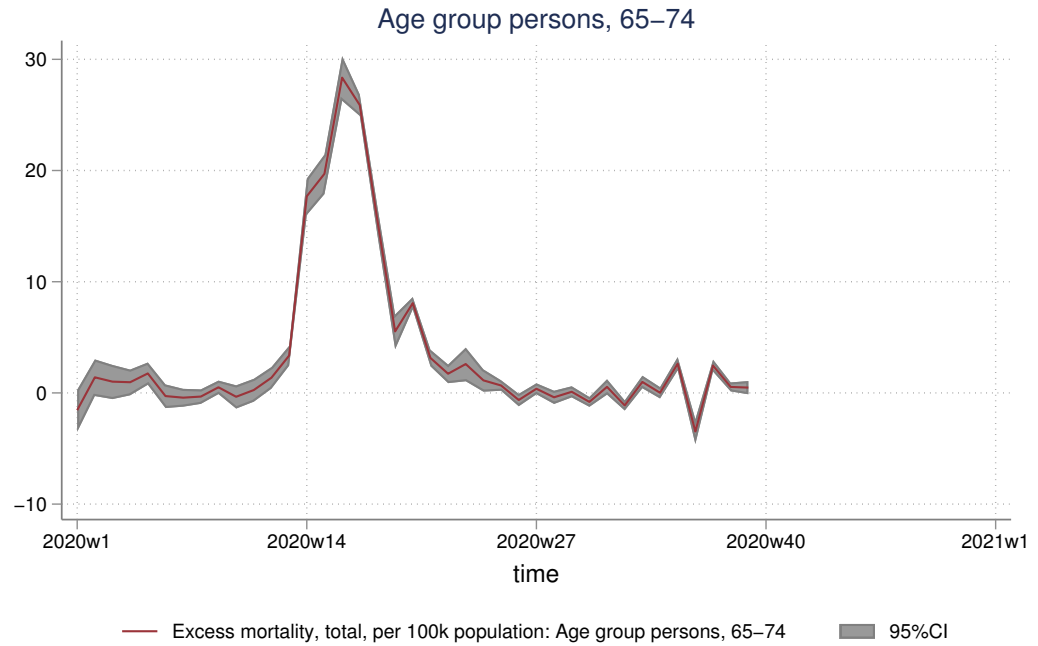


Figure 154: All 65-74 all-cause excess deaths (-COVID19), from 2010 week 1

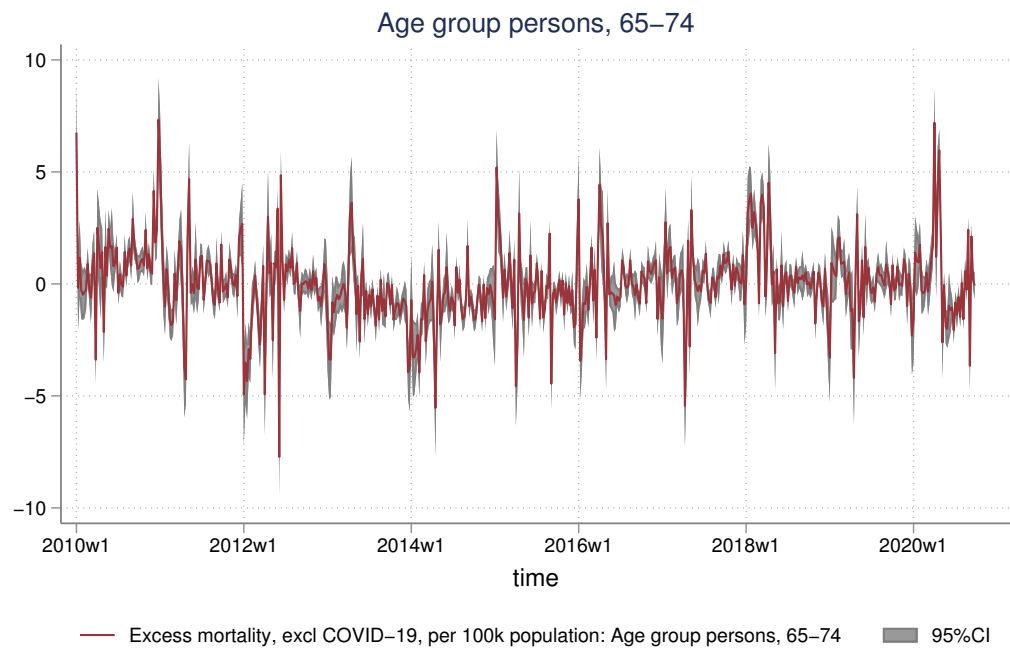


Figure 155: All 65-74 all-cause excess deaths (-COVID19), from 2019 week 1

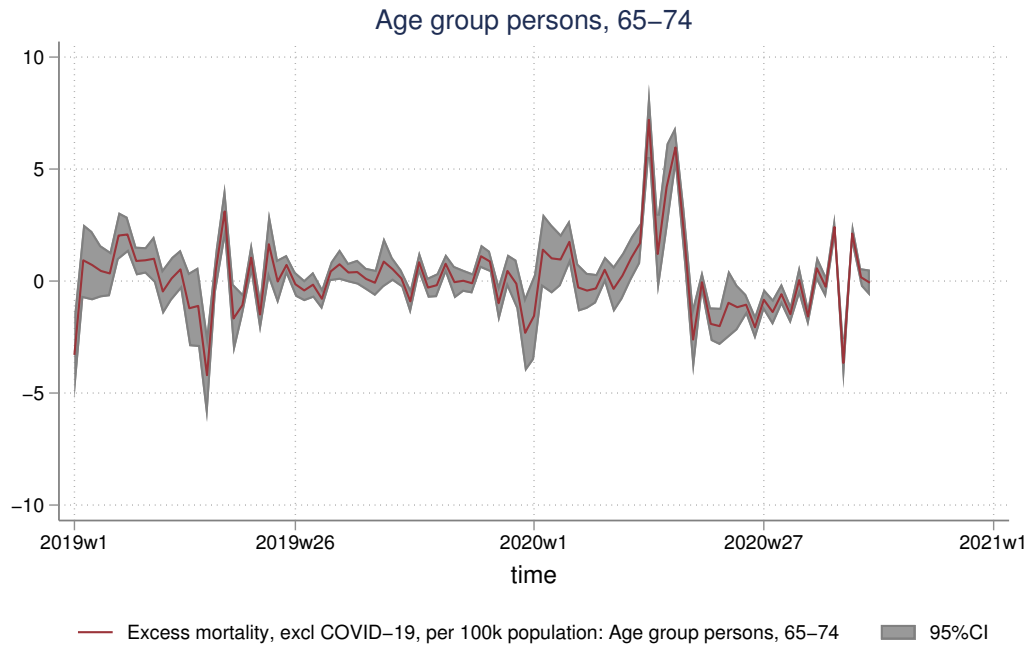
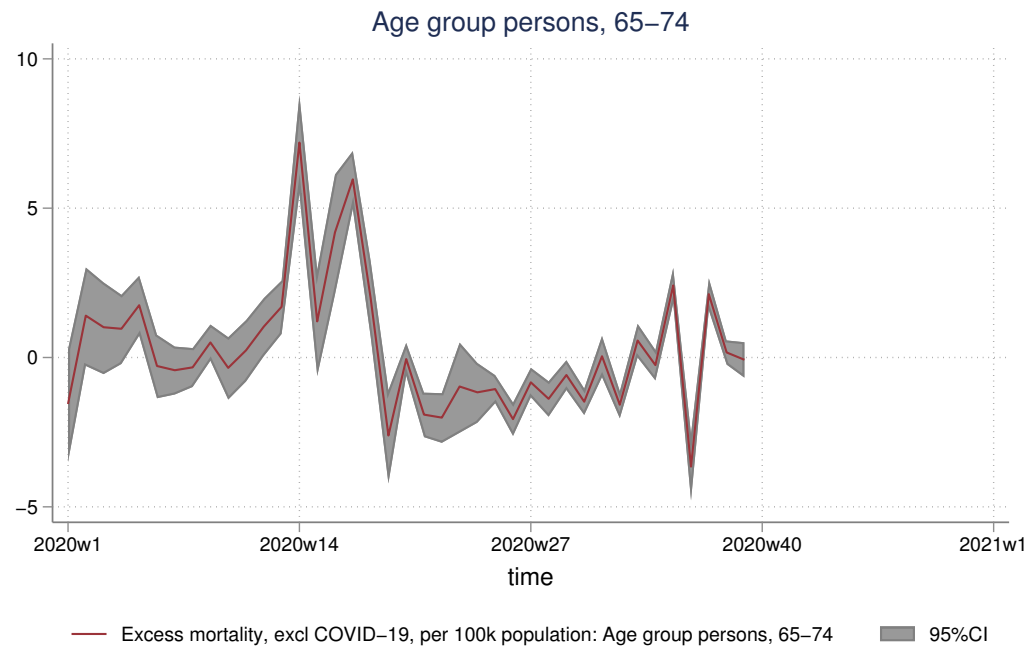


Figure 156: All 65-74 all-cause excess deaths (-COVID19), from 2020 week 1



3.7 All aged 75-84

Figure 157: All 75-84 mortality time trend and model, from 2010 week 1

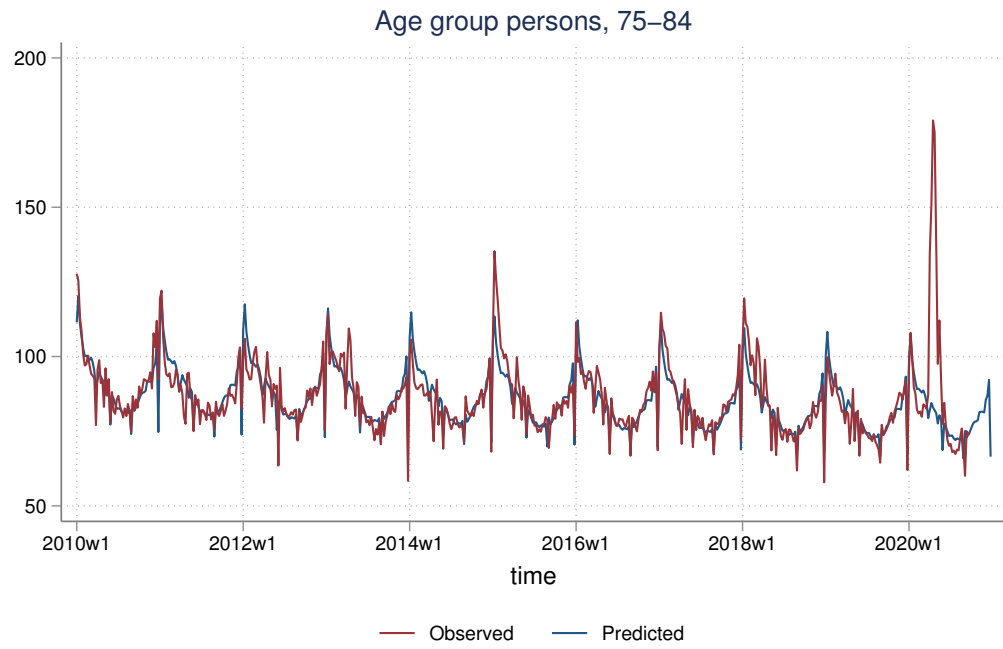


Figure 158: All 75-84 mortality time trend and model, from 2019 week 1

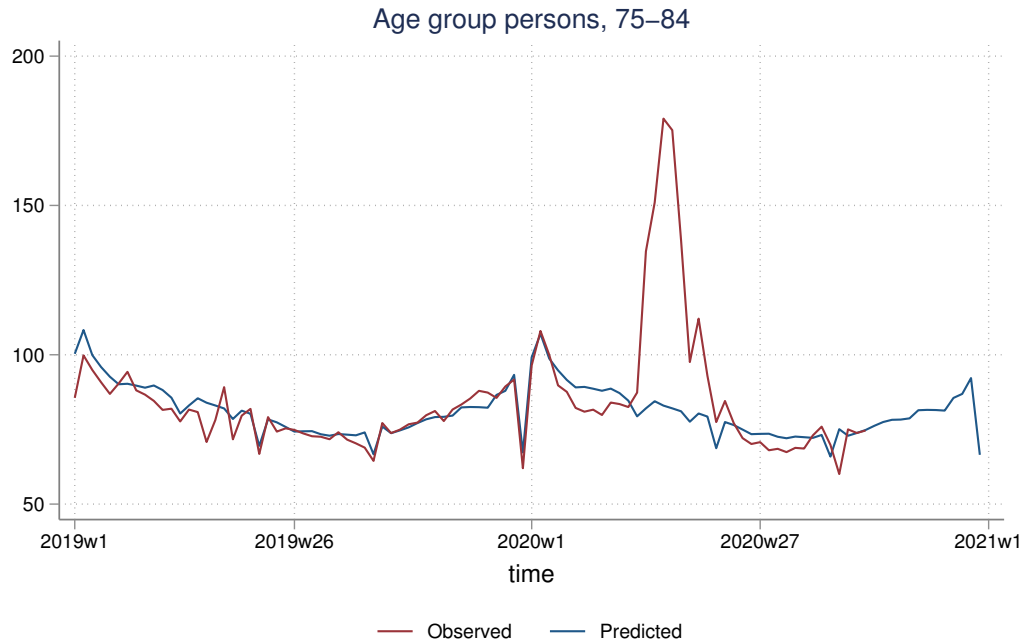


Figure 159: All 75-84 mortality time trend and model, from 2020 week 1



Figure 160: All 75-84 all-cause excess deaths, from 2010 week 1



Figure 161: All 75-84 all-cause excess deaths, from 2019 week 1

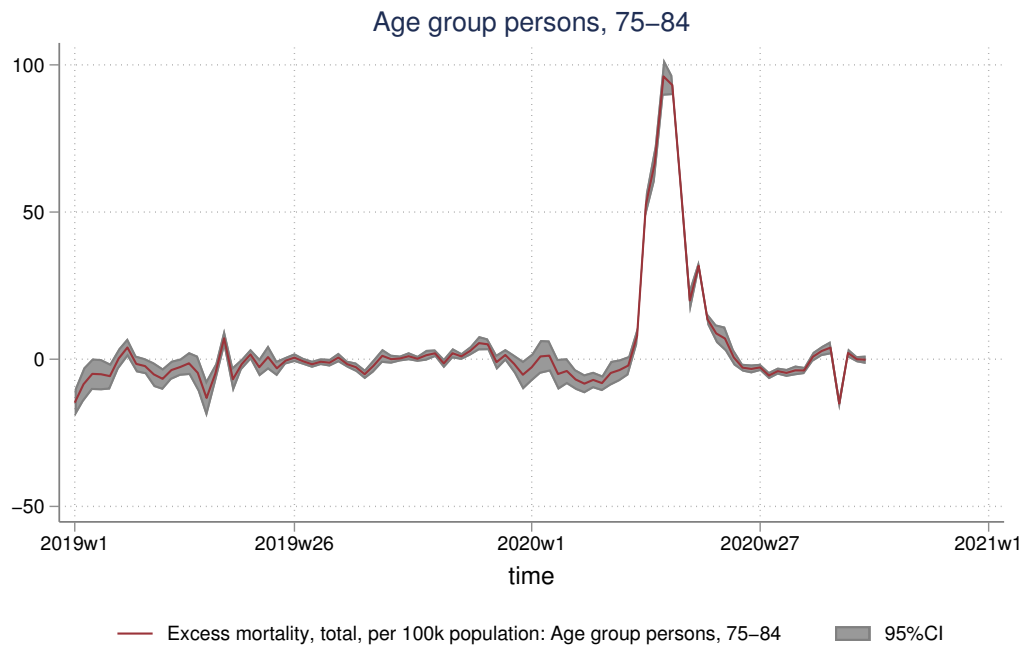


Figure 162: All 75-84 all-cause excess deaths, from 2020 week 1

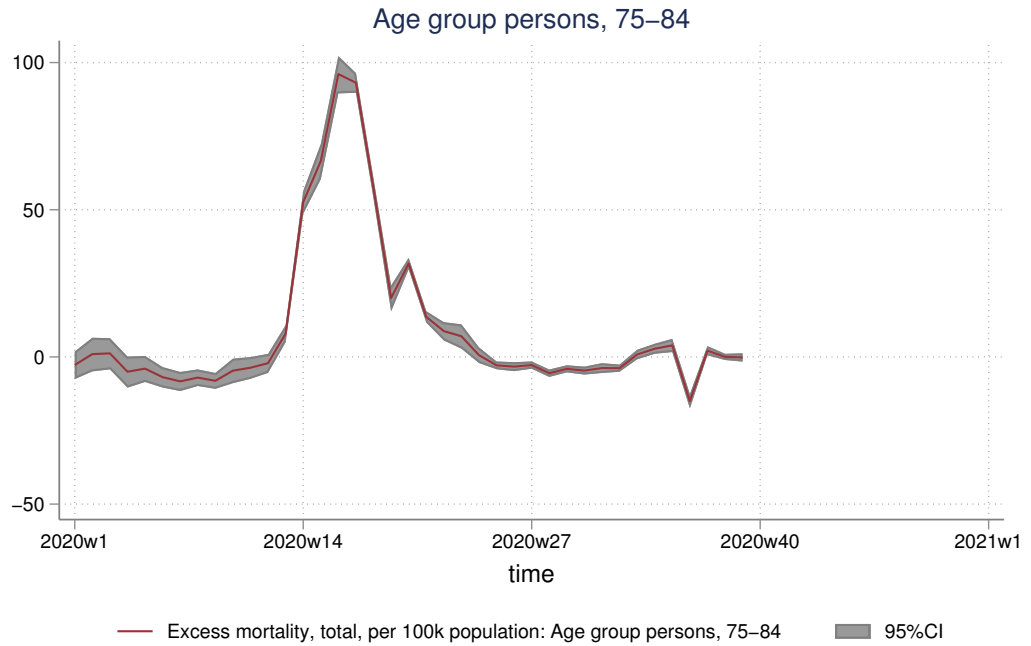


Figure 163: All 75-84 all-cause excess deaths (-COVID19), from 2010 week 1

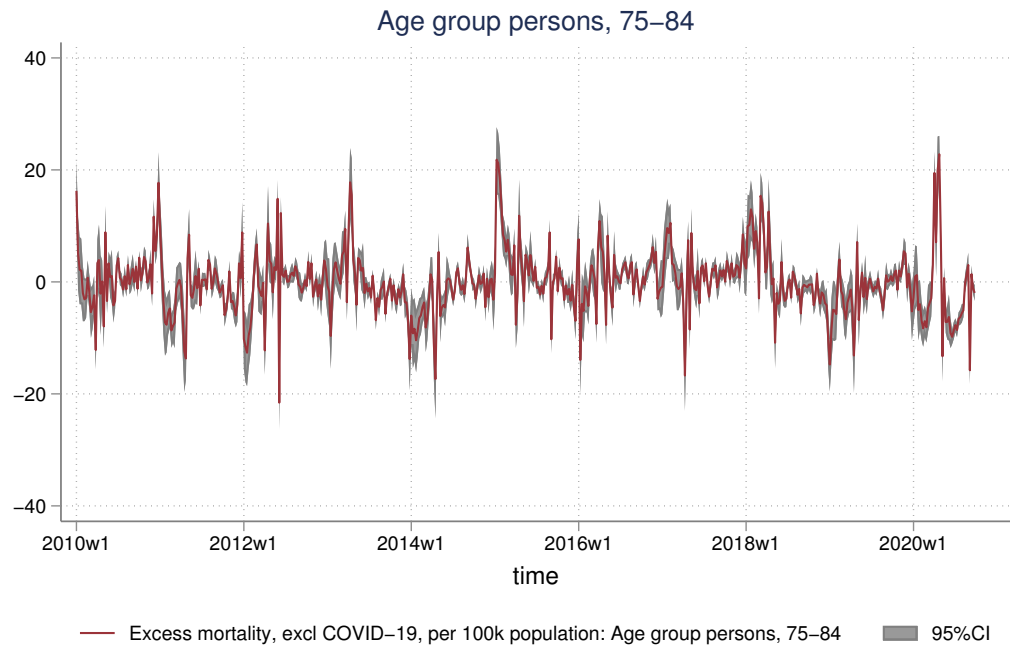


Figure 164: All 75-84 all-cause excess deaths (-COVID19), from 2019 week 1

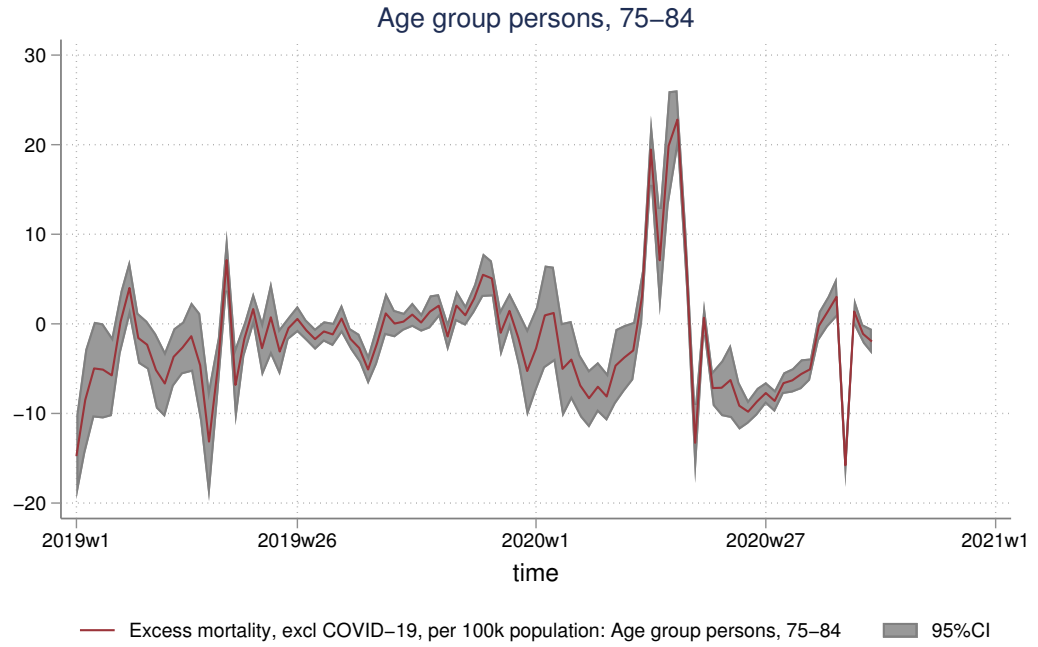
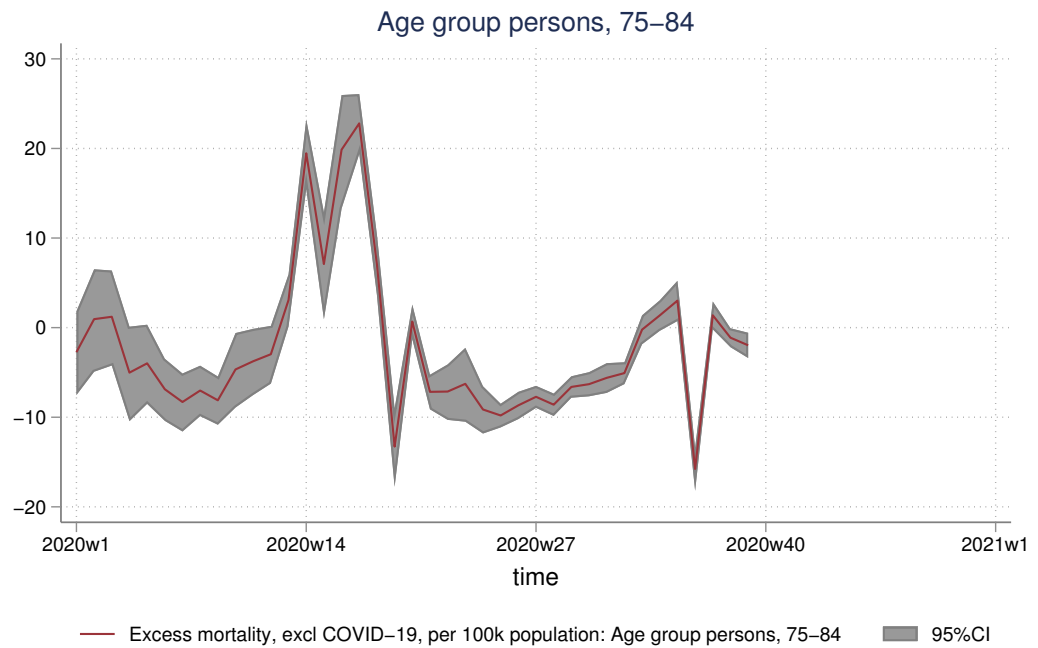


Figure 165: All 75-84 all-cause excess deaths (-COVID19), from 2020 week 1



3.8 All aged 85+

Figure 166: All 85+ mortality time trend and model, from 2010 week 1

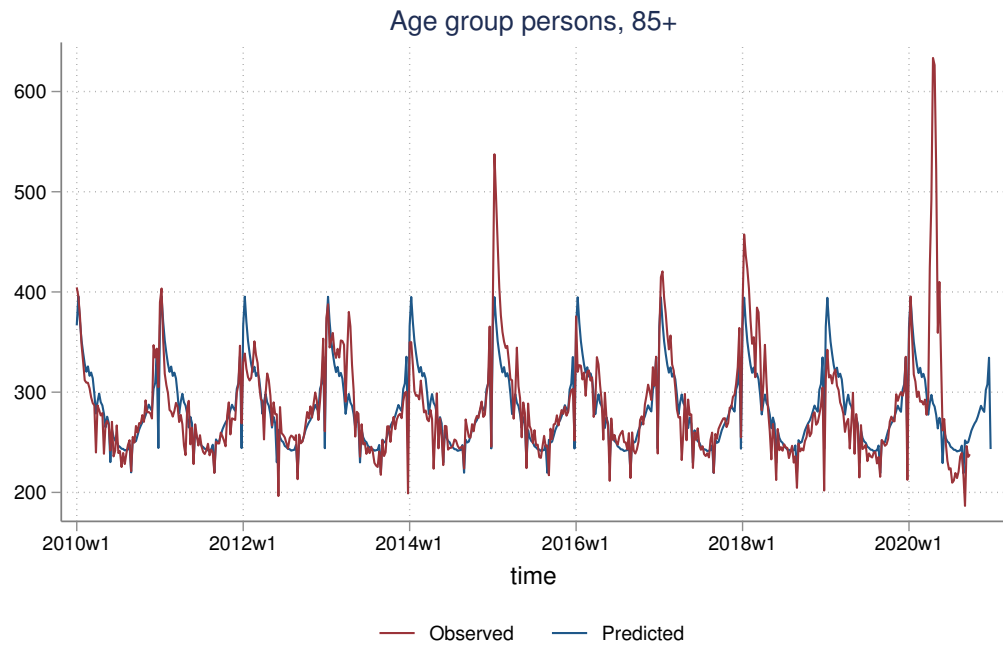


Figure 167: All 85+ mortality time trend and model, from 2019 week 1

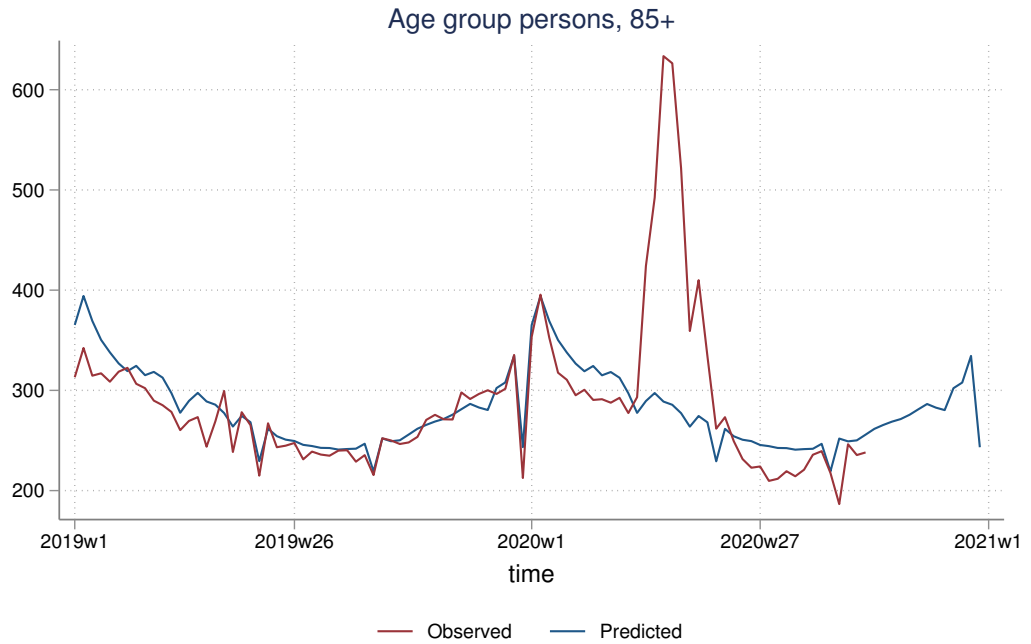


Figure 168: All 85+ mortality time trend and model, from 2020 week 1

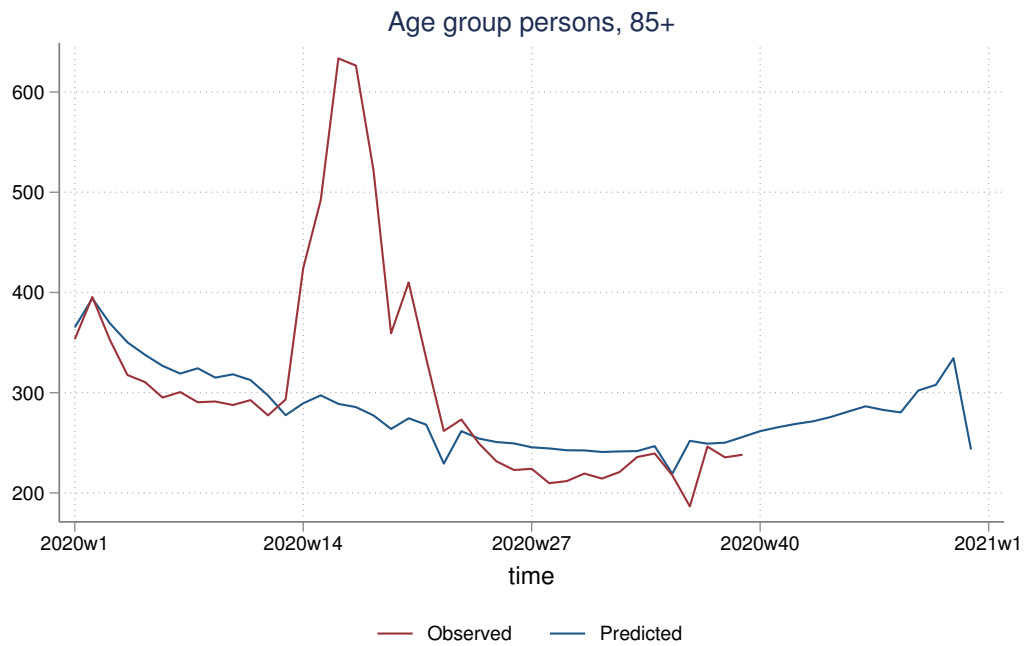


Figure 169: All 85+ all-cause excess deaths, from 2010 week 1

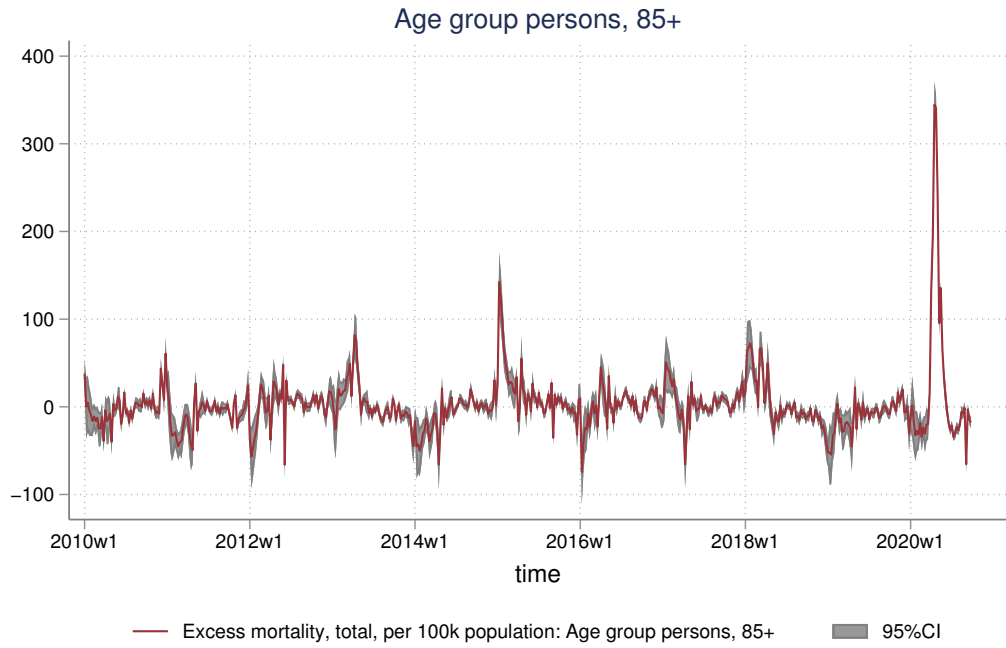


Figure 170: All 85+ all-cause excess deaths, from 2019 week 1

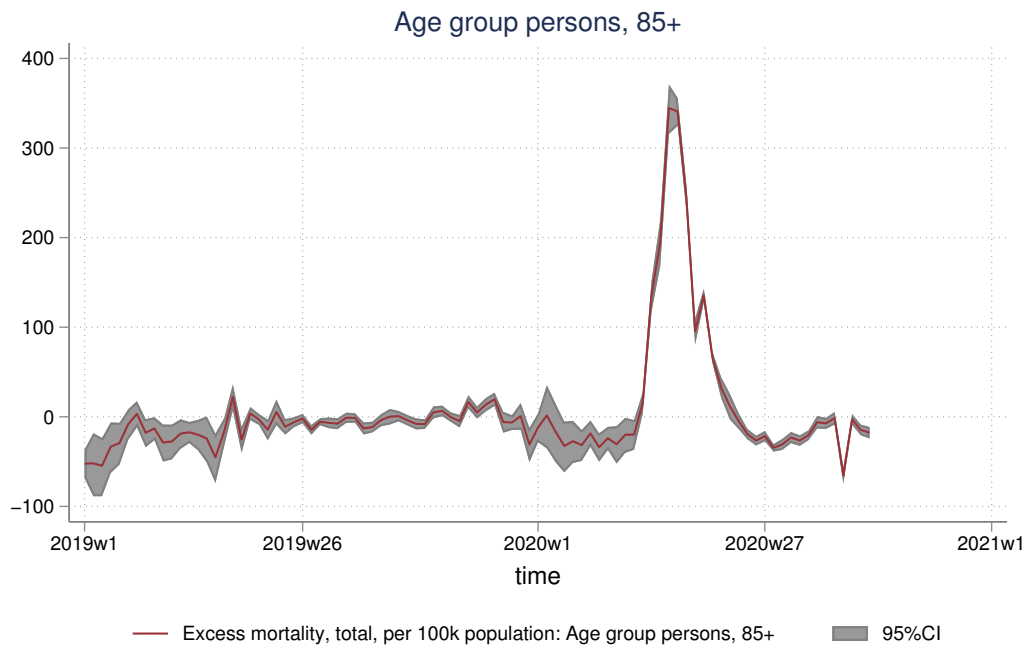


Figure 171: All 85+ all-cause excess deaths, from 2020 week 1

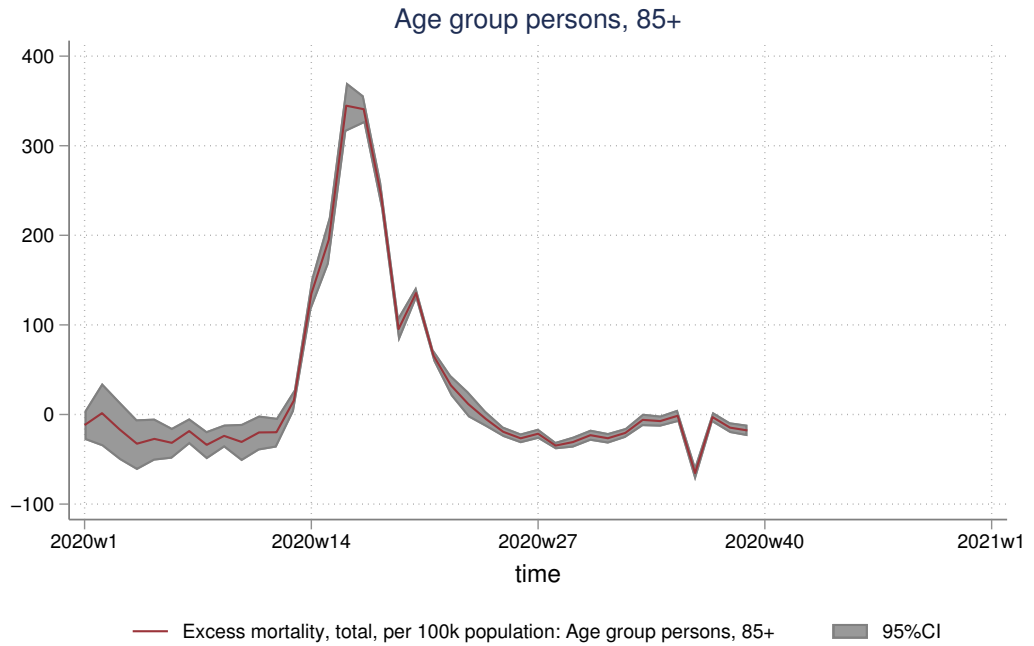


Figure 172: All 85+ all-cause excess deaths (-COVID19), from 2010 week 1

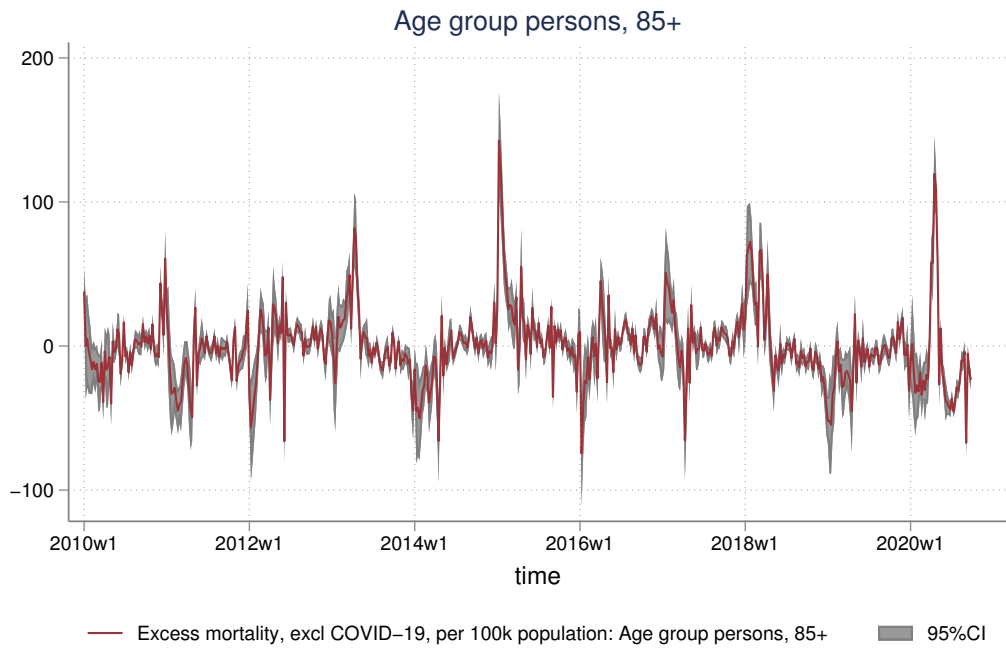


Figure 173: All 85+ all-cause excess deaths (-COVID19), from 2019 week 1

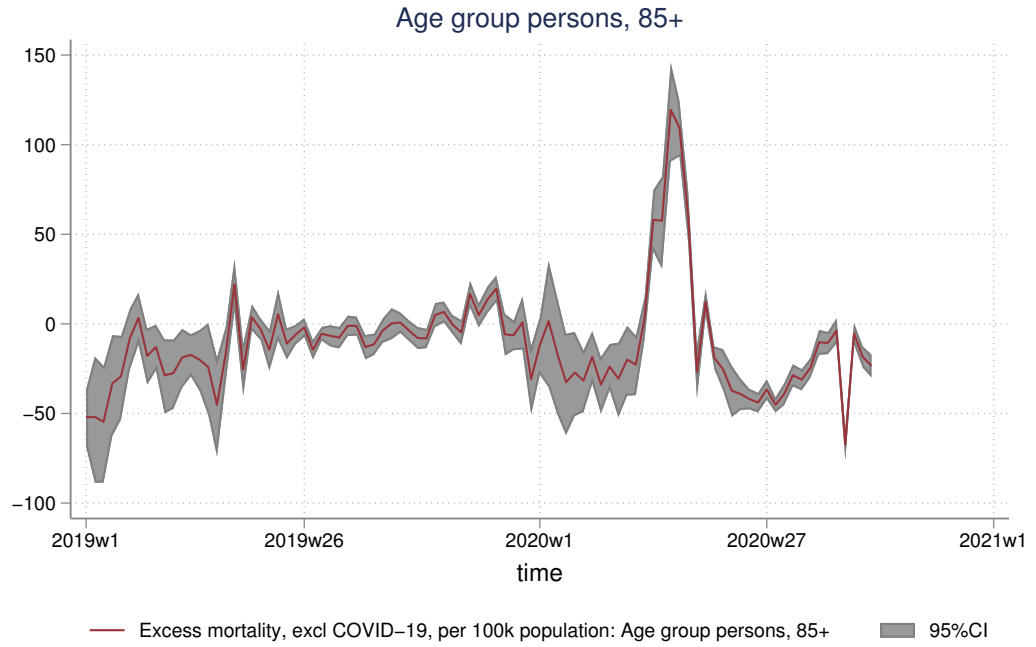
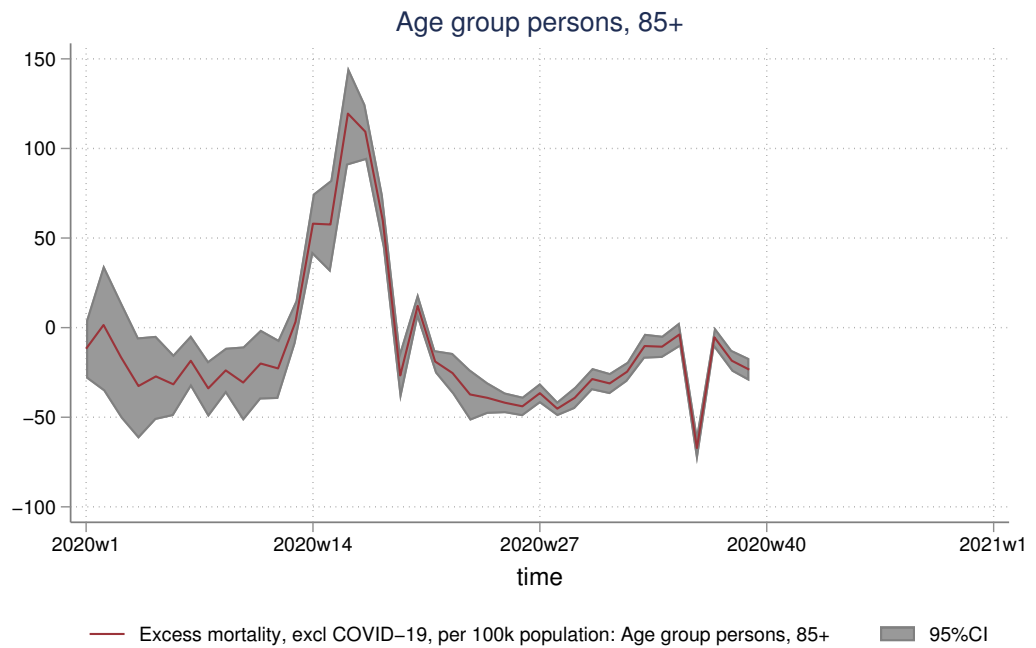


Figure 174: All 85+ all-cause excess deaths (-COVID19), from 2020 week 1



4 Age groups, per 100k males

4.1 Time trends

Figure 175: Male age group mortality time trends, from 2010 wk1

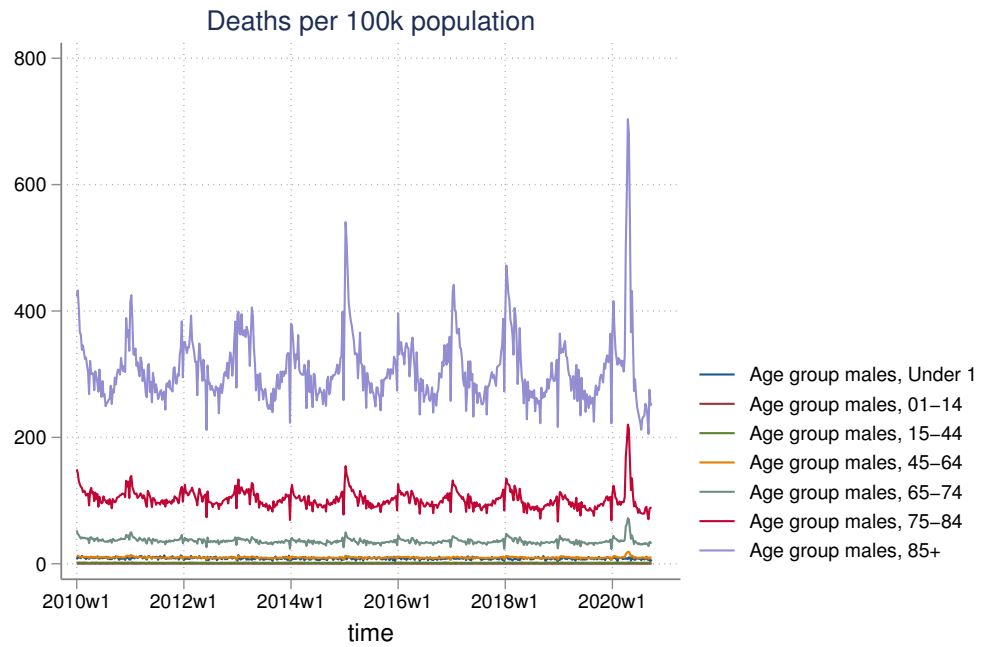


Figure 176: Male age group mortality time trends, from 2019 wk1

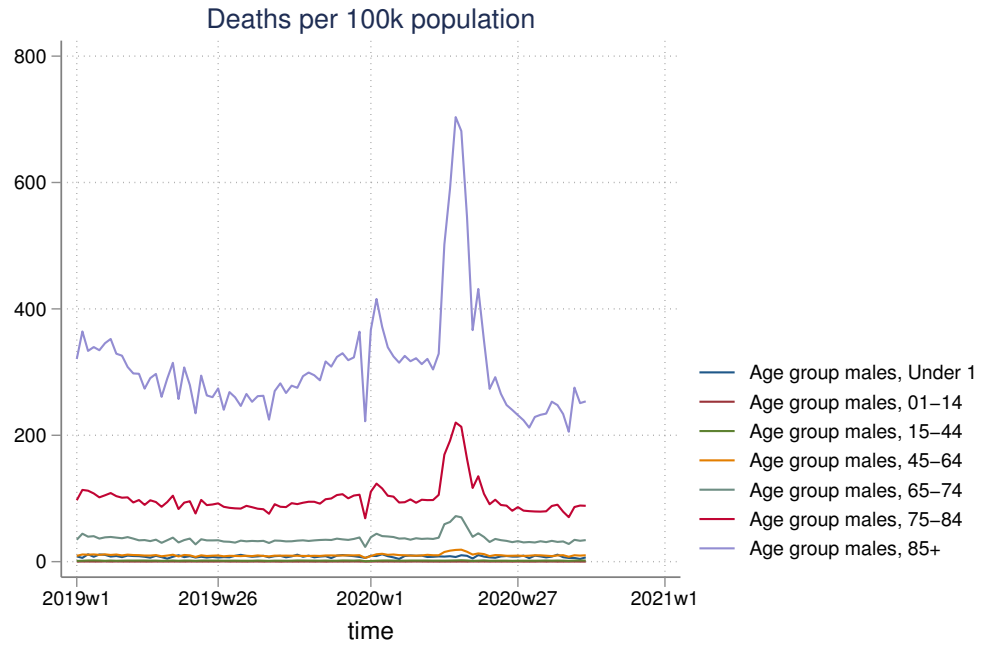
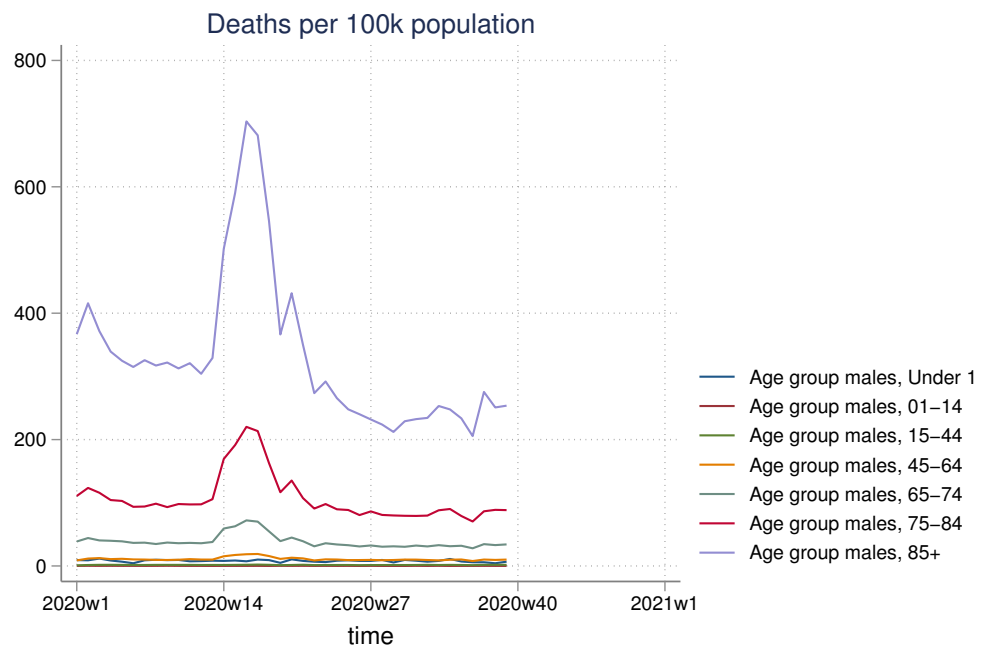


Figure 177: Male age group mortality time trends, from 2020 wk1



4.2 Males aged under 1

Figure 178: Males < 1 mortality time trend and model, from 2010 wk1

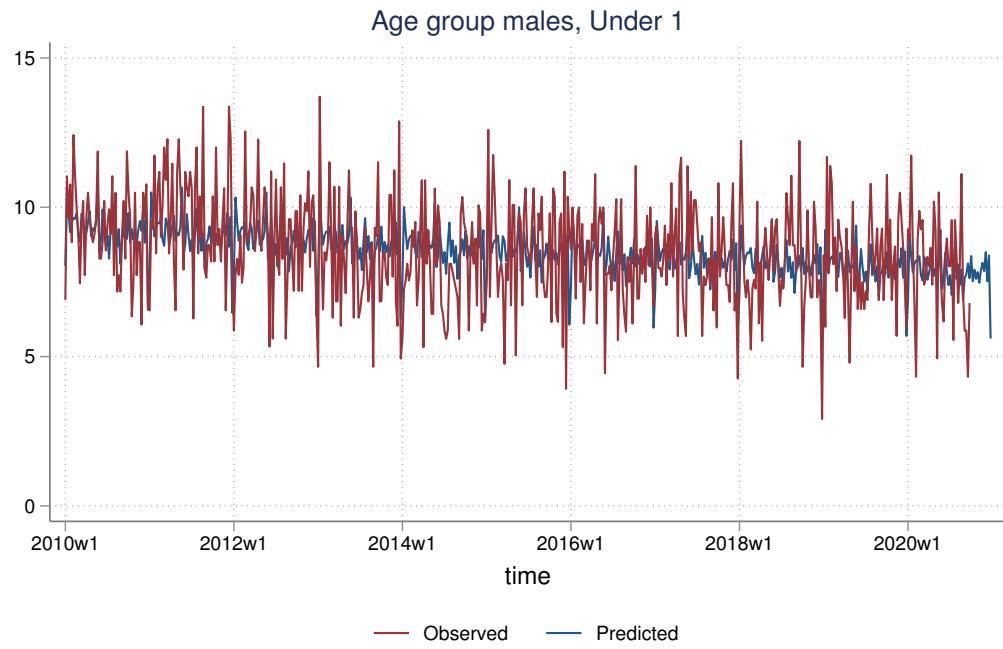


Figure 179: Males < 1 mortality time trend and model, from 2019 wk1

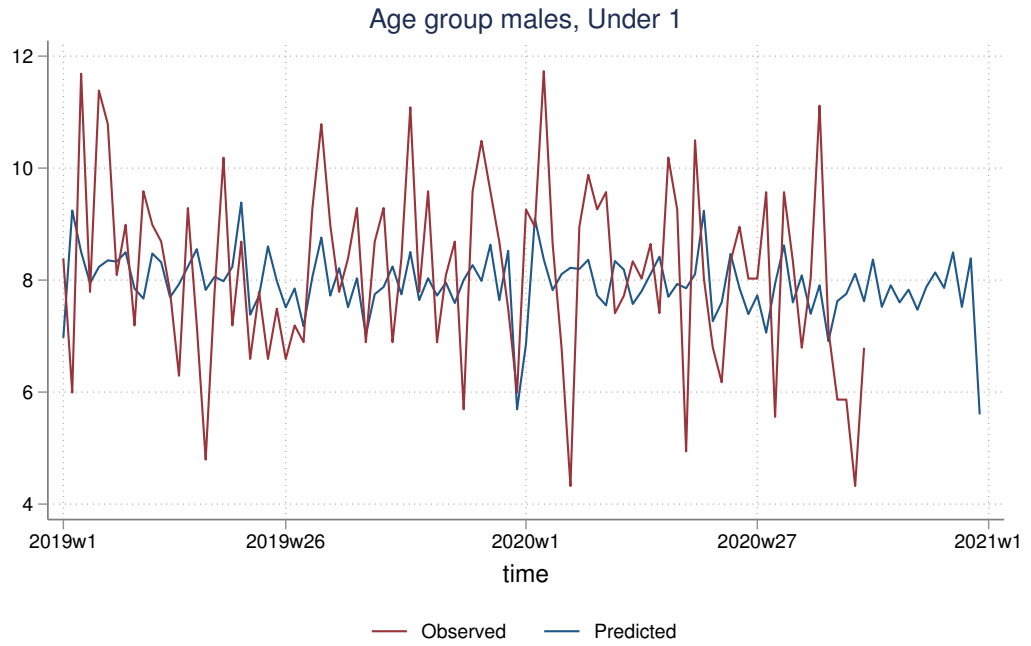


Figure 180: Males < 1 mortality time trend and model, from 2020 wk1

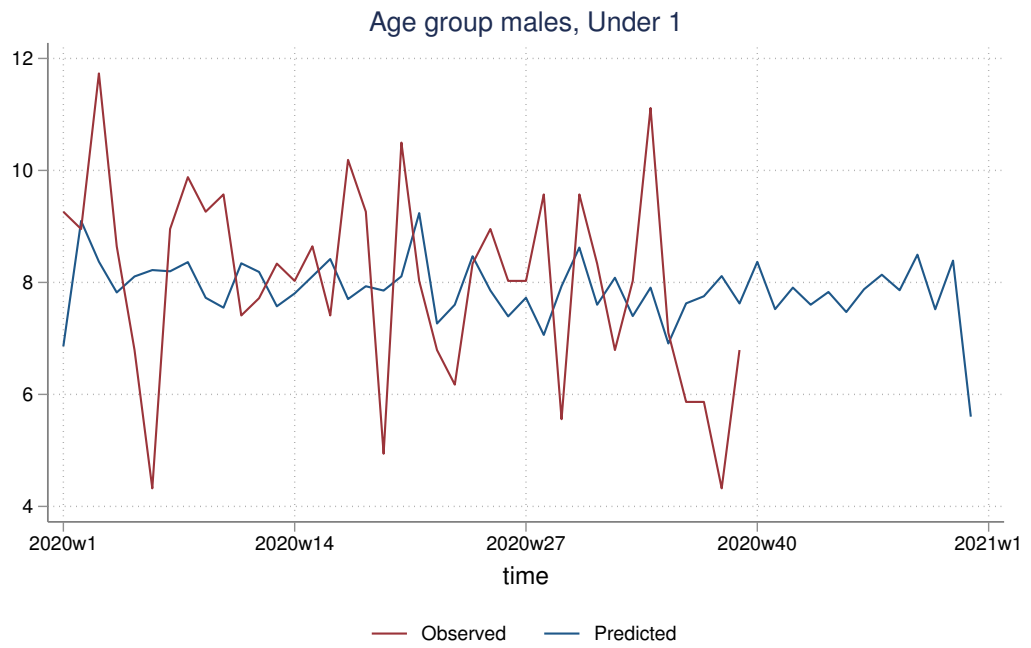


Figure 181: Males < 1 all-cause excess deaths, from 2010 wk1

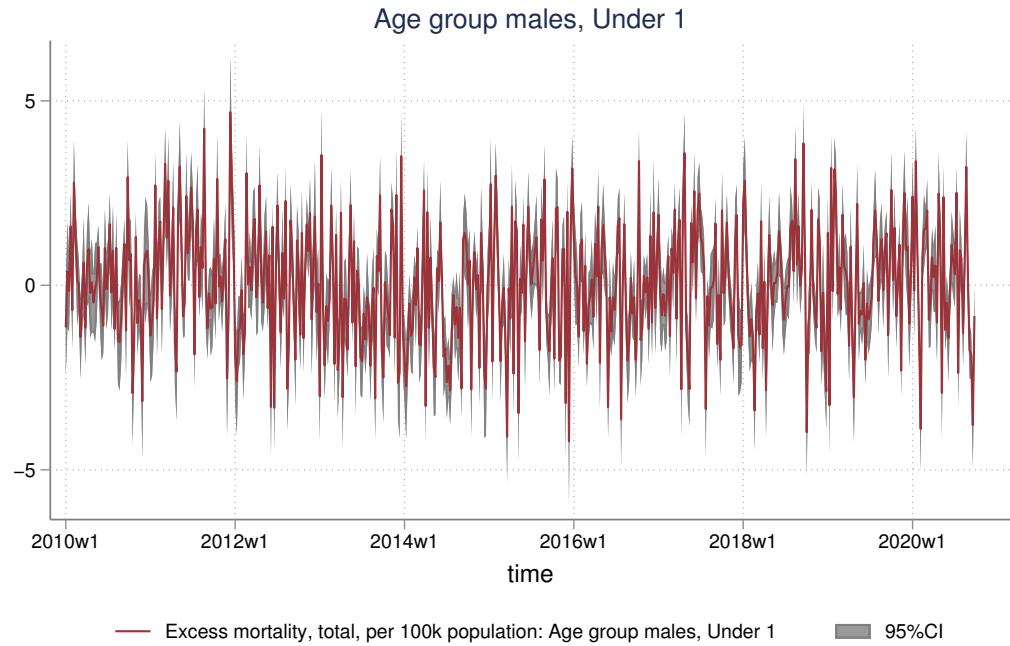


Figure 182: Males < 1 all-cause excess deaths, from 2019 wk1

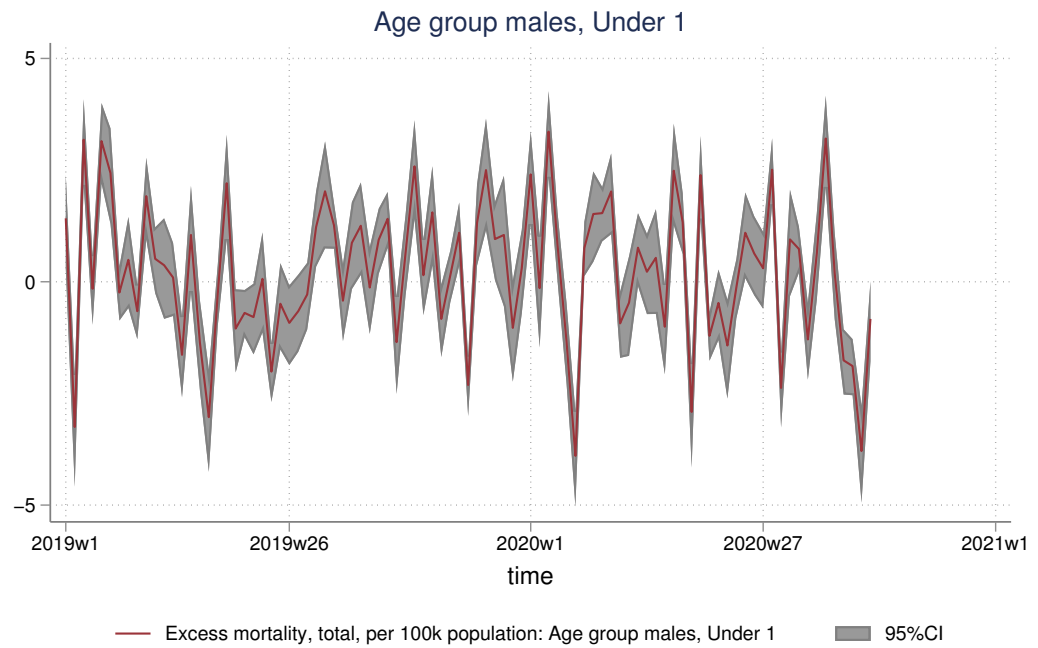


Figure 183: Males < 1 all-cause excess deaths, from 2020 wk1

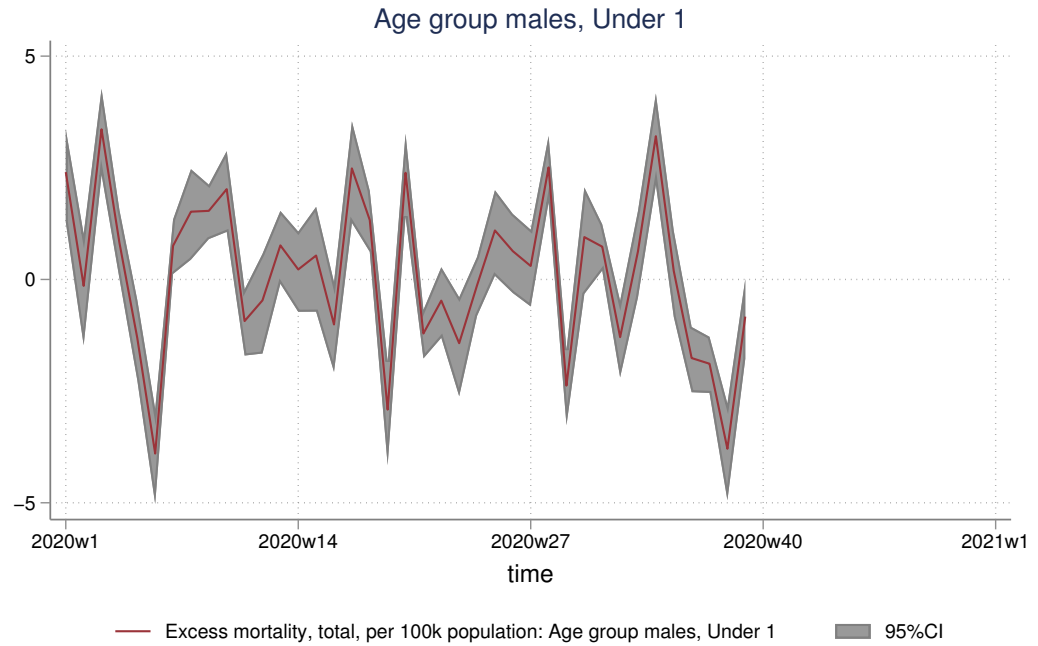


Figure 184: Males < 1 all-cause excess deaths minus COVID19, from 2010 wk1

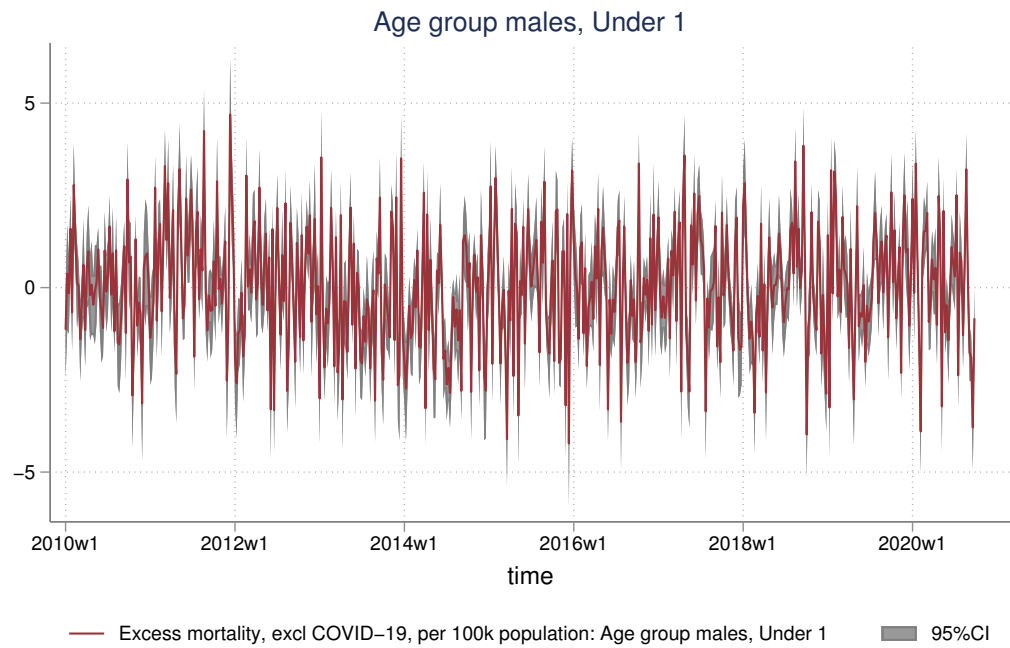


Figure 185: Males < 1 all-cause excess deaths minus COVID19, from 2019 wk1

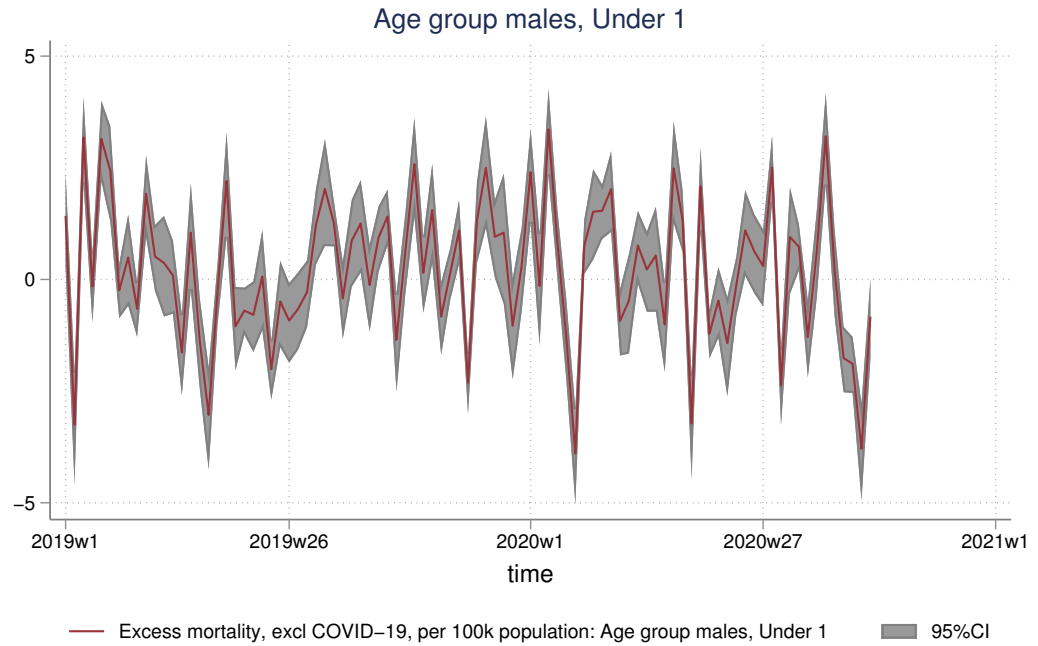
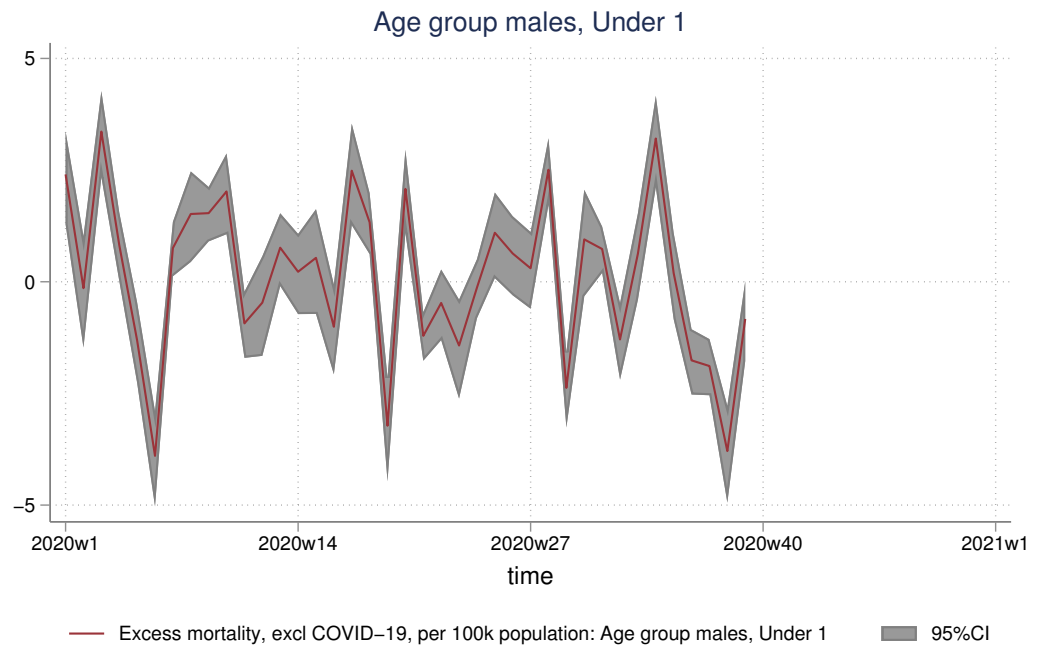


Figure 186: Males < 1 all-cause excess deaths minus COVID19, from 2020 wk1



4.3 Males aged 01-14

Figure 187: Males 01-14 mortality time trend and model, from 2010 wk1



Figure 188: Males 01-14 mortality time trend and model, from 2019 wk1

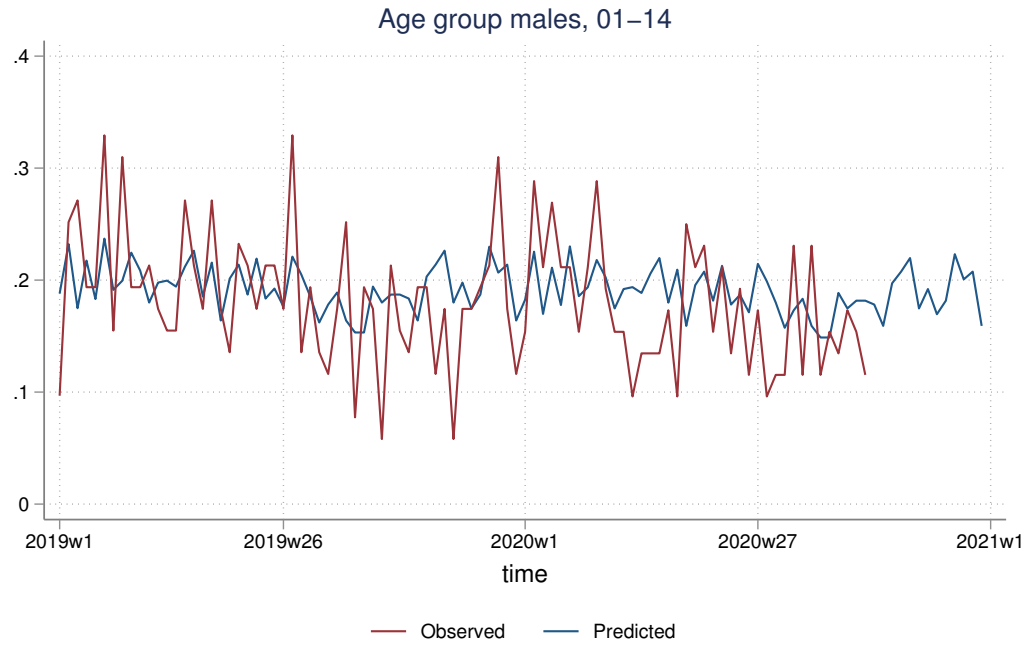


Figure 189: Males 01-14 mortality time trend and model, from 2020 wk1

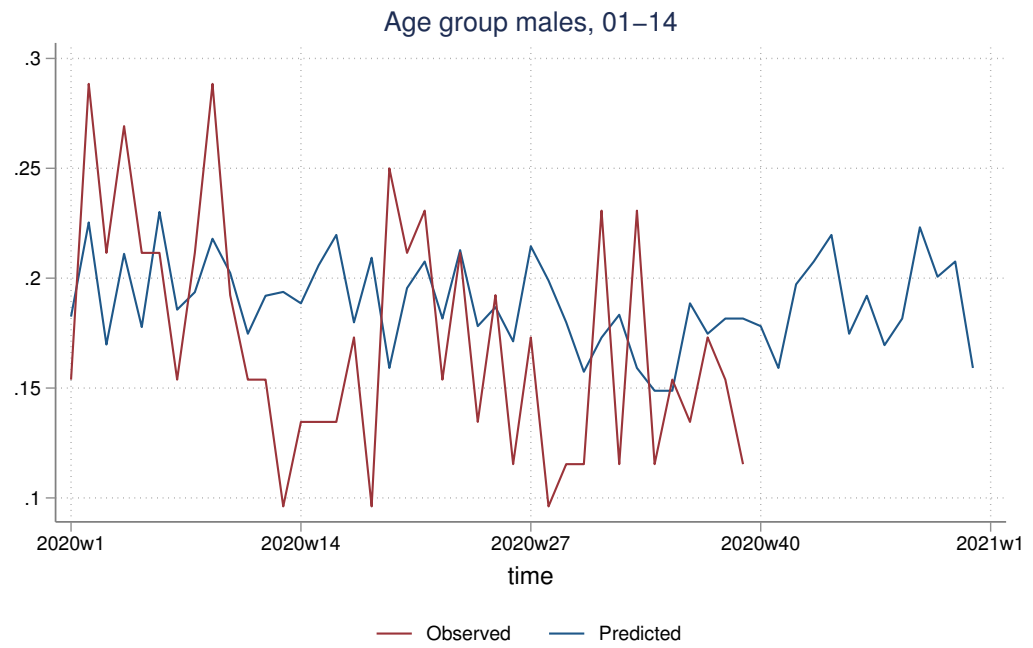


Figure 190: Males 01-14 all-cause excess deaths, from 2010 wk1

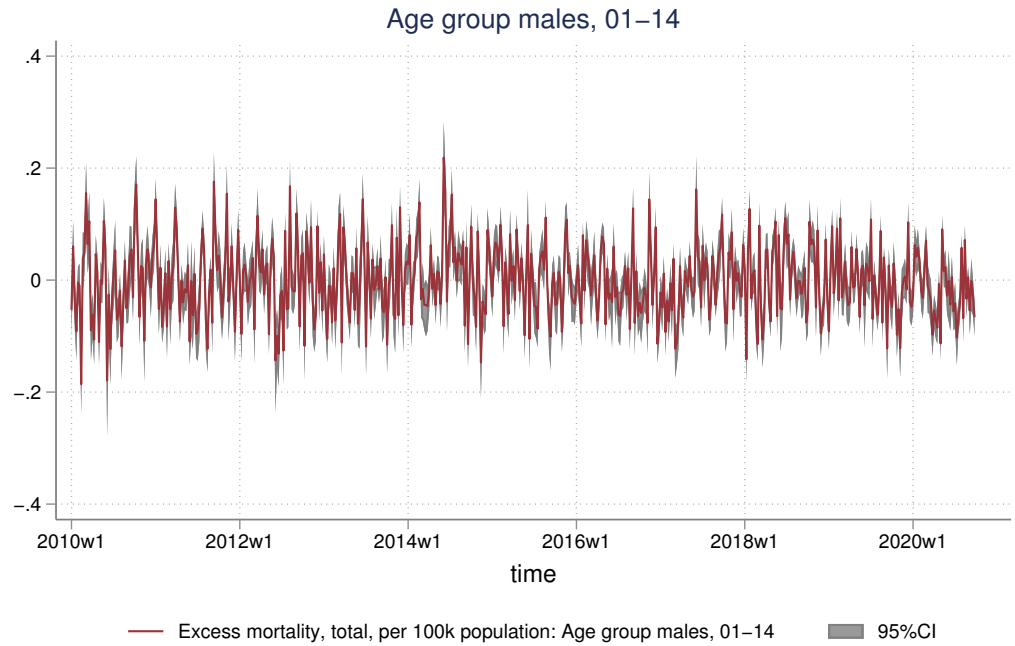


Figure 191: Males 01-14 all-cause excess deaths, from 2019 wk1

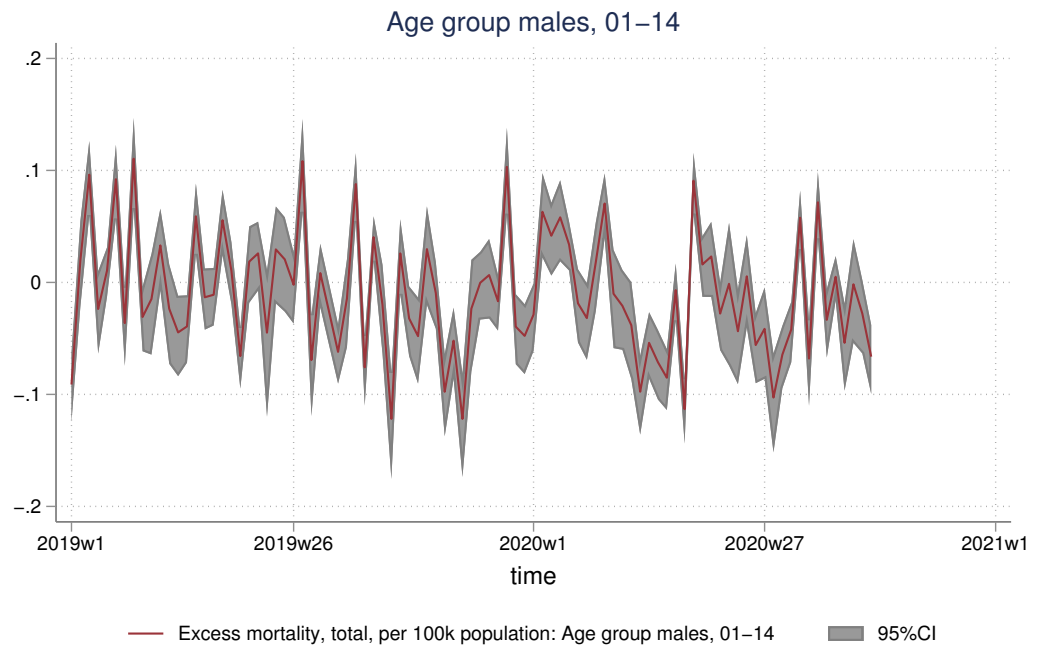


Figure 192: Males 01-14 all-cause excess deaths, from 2020 wk1



Figure 193: Males 01-14 all-cause excess deaths (-COVID19), from 2010 wk1

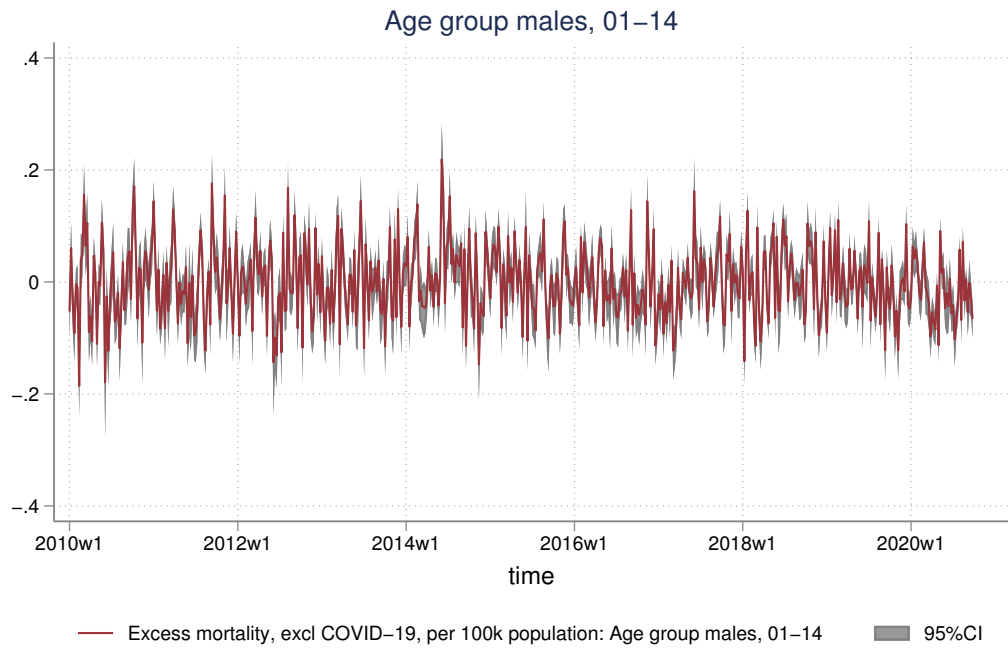


Figure 194: Males 01-14 all-cause excess deaths (-COVID19), from 2019 wk1

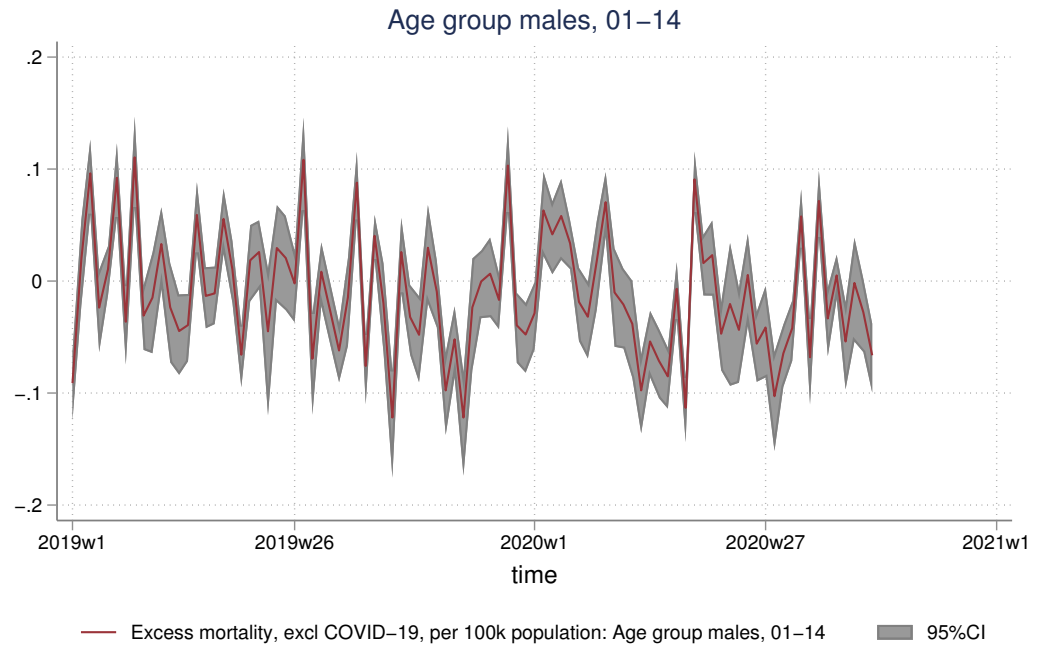
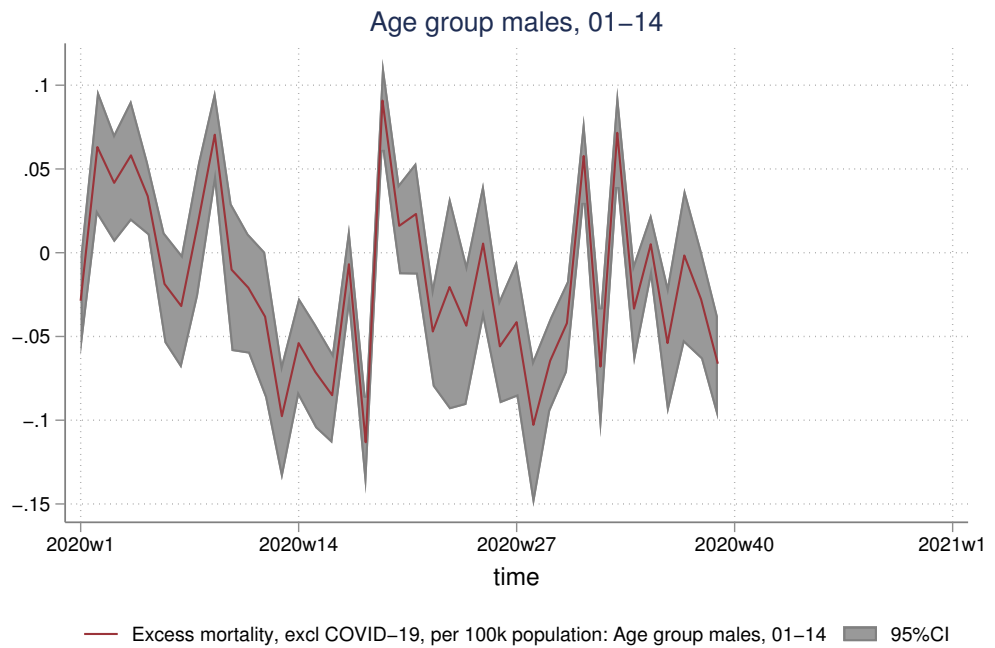


Figure 195: Males 01-14 all-cause excess deaths (-COVID19), from 2020 wk1



4.4 Males aged 15-44

Figure 196: Males 15-44 mortality time trend and model, from 2010 wk1

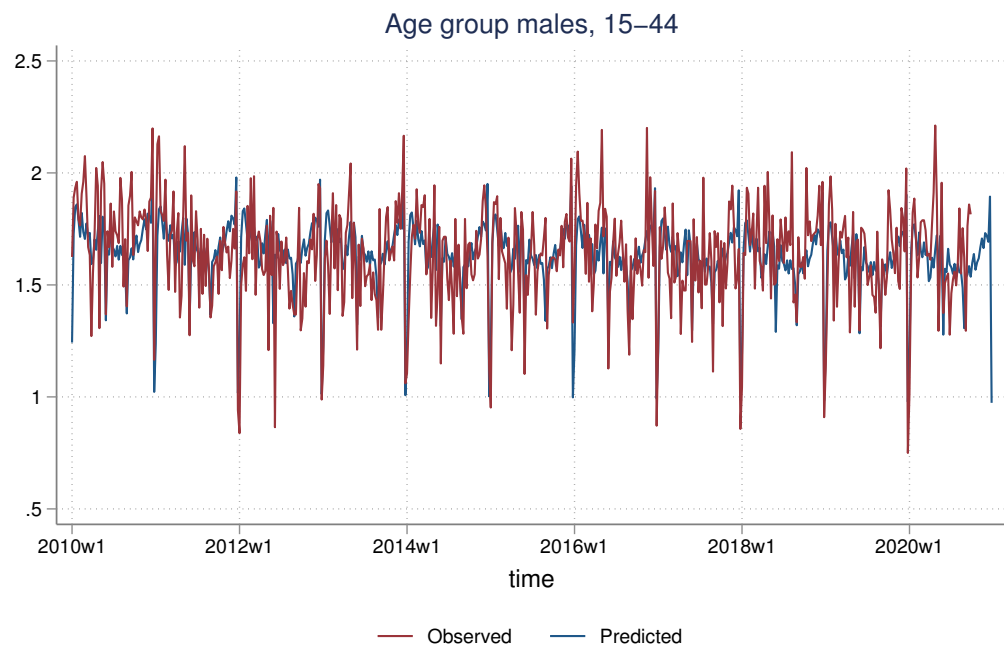


Figure 197: Males 15-44 mortality time trend and model, from 2019 wk1

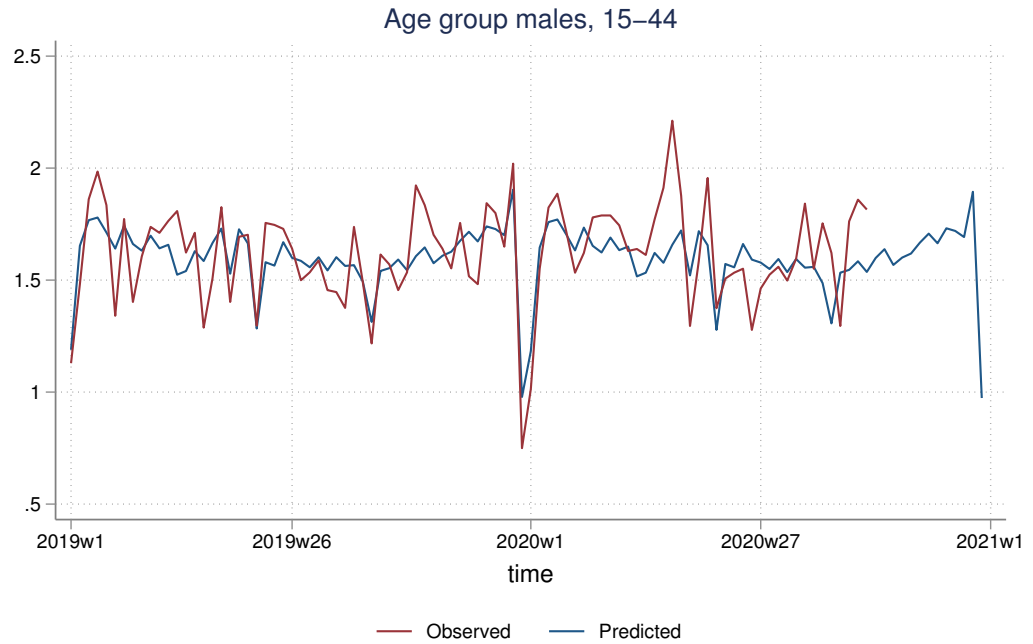


Figure 198: Males 15-44 mortality time trend and model, from 2020 wk1

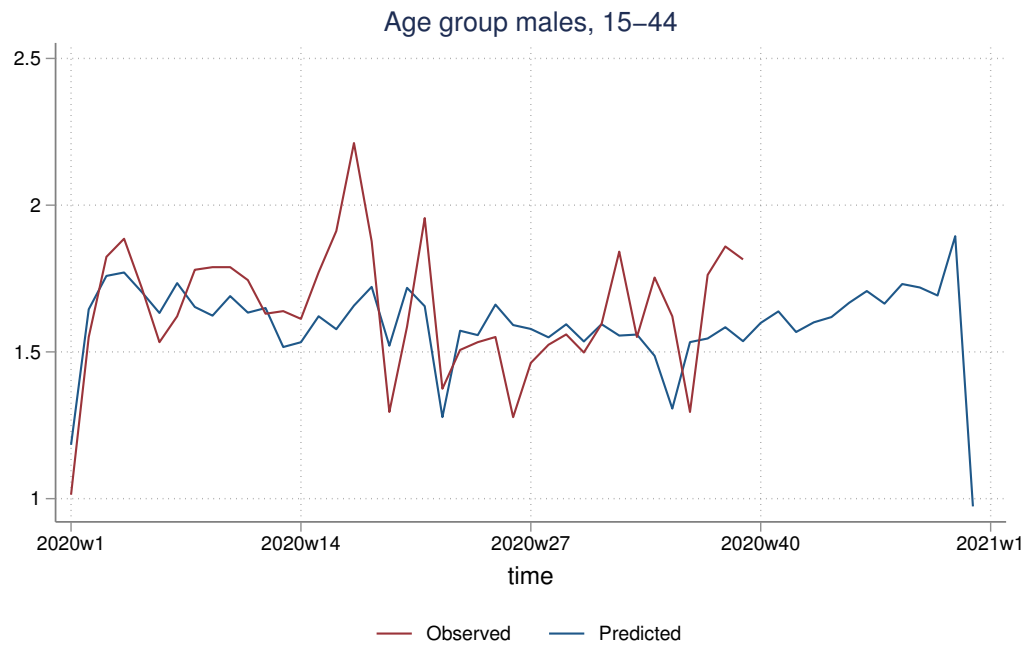


Figure 199: Males 15-44 all-cause excess deaths, from 2010 wk1

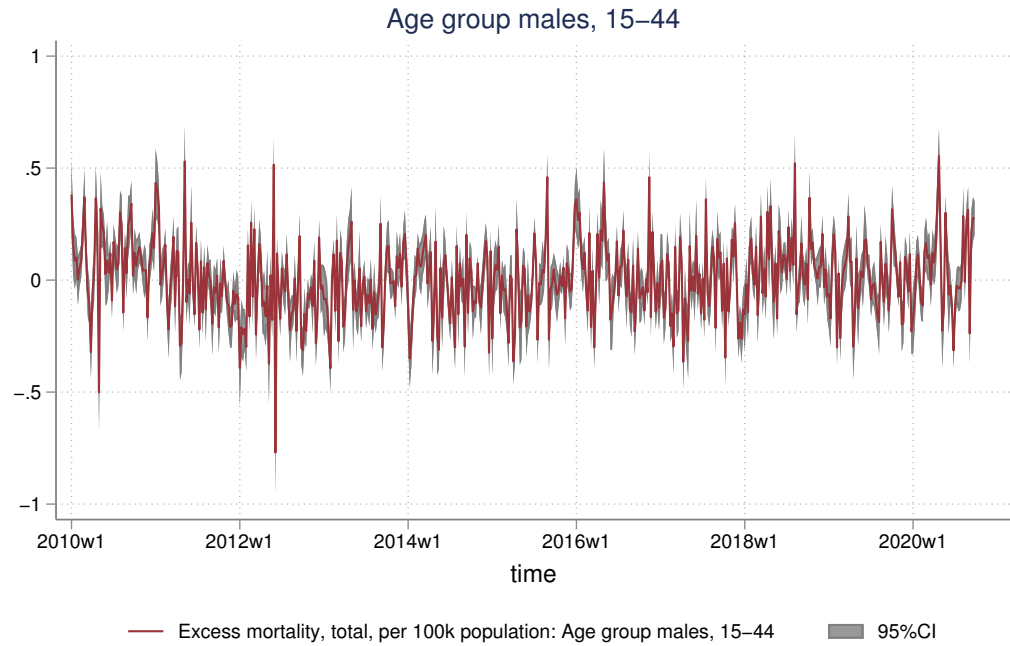


Figure 200: Males 15-44 all-cause excess deaths, from 2019 wk1

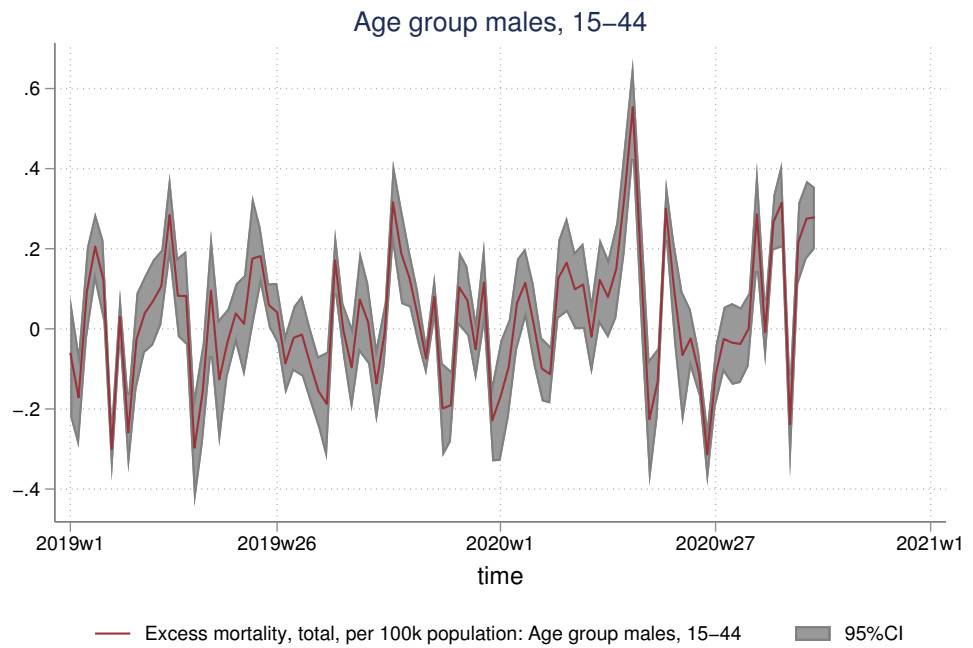


Figure 201: Males 15-44 all-cause excess deaths, from 2020 wk1

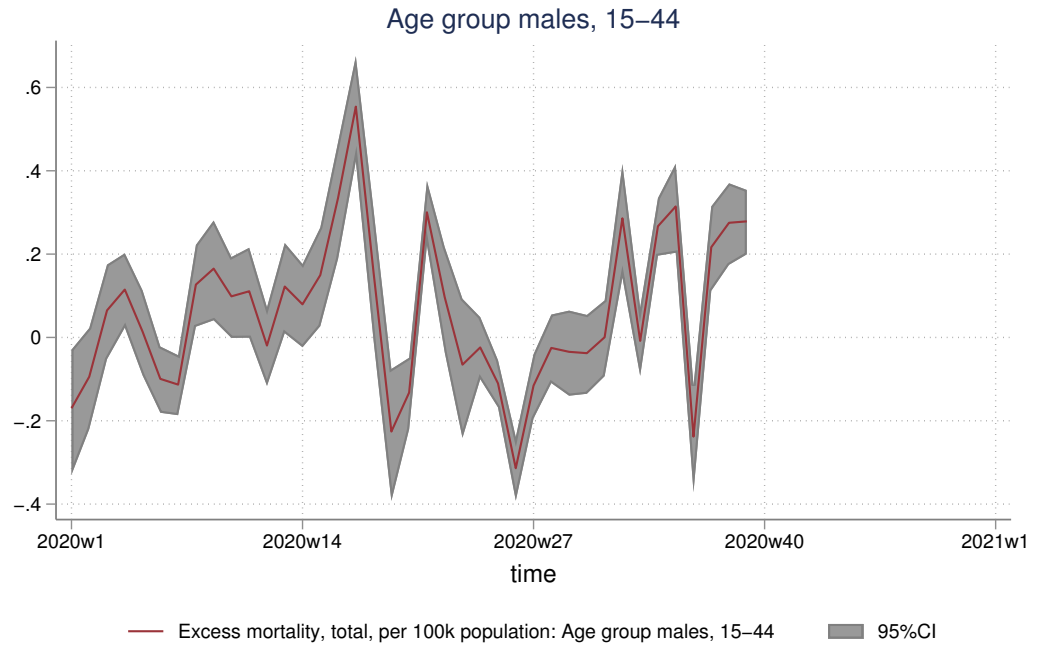


Figure 202: Males 15-44 all-cause excess deaths (-COVID19), from 2010 wk1

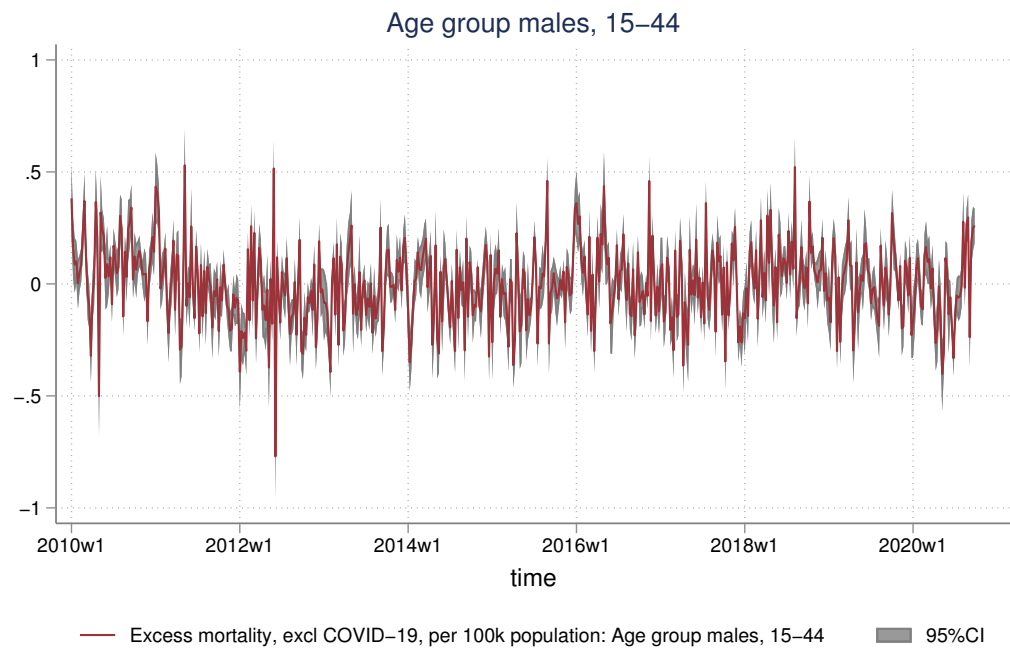


Figure 203: Males 15-44 all-cause excess deaths (-COVID19), from 2019 wk1

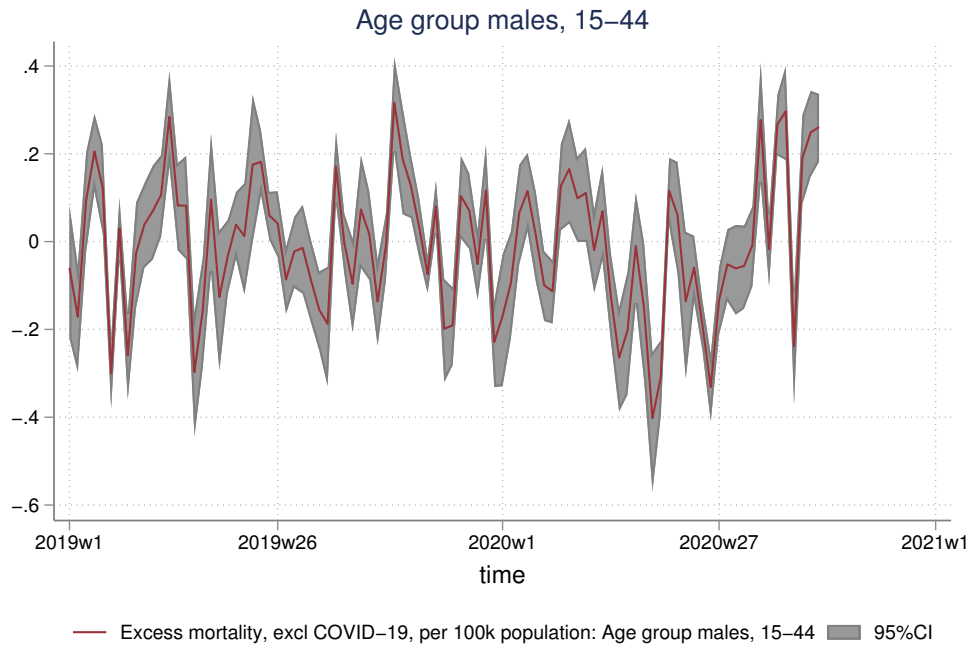
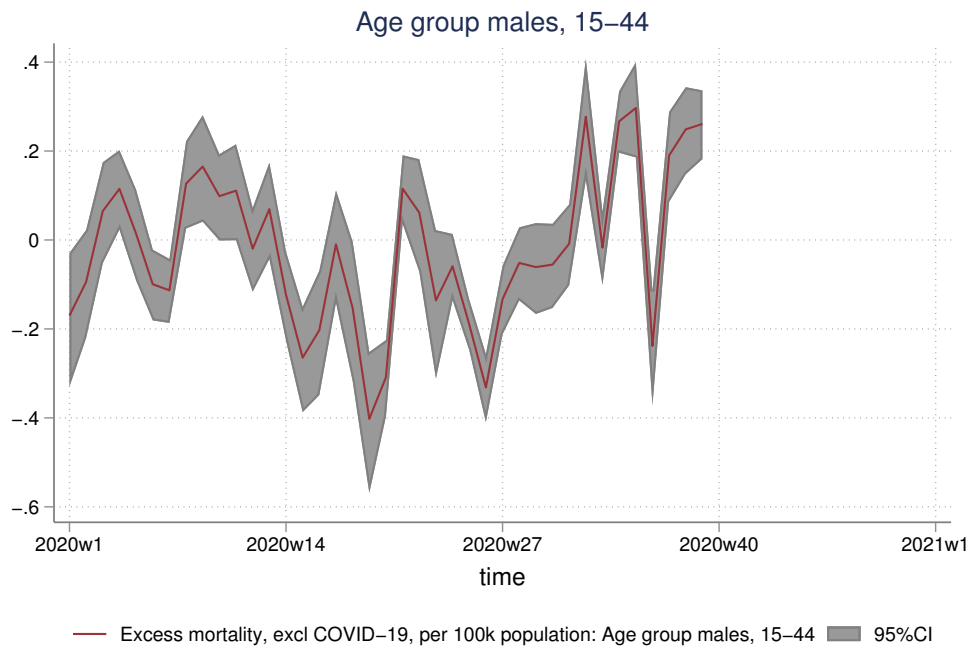


Figure 204: Males 15-44 all-cause excess deaths (-COVID19), from 2020 wk1



4.5 Males aged 45-64

Figure 205: Males 45-64 mortality time trend and model, from 2010 wk1

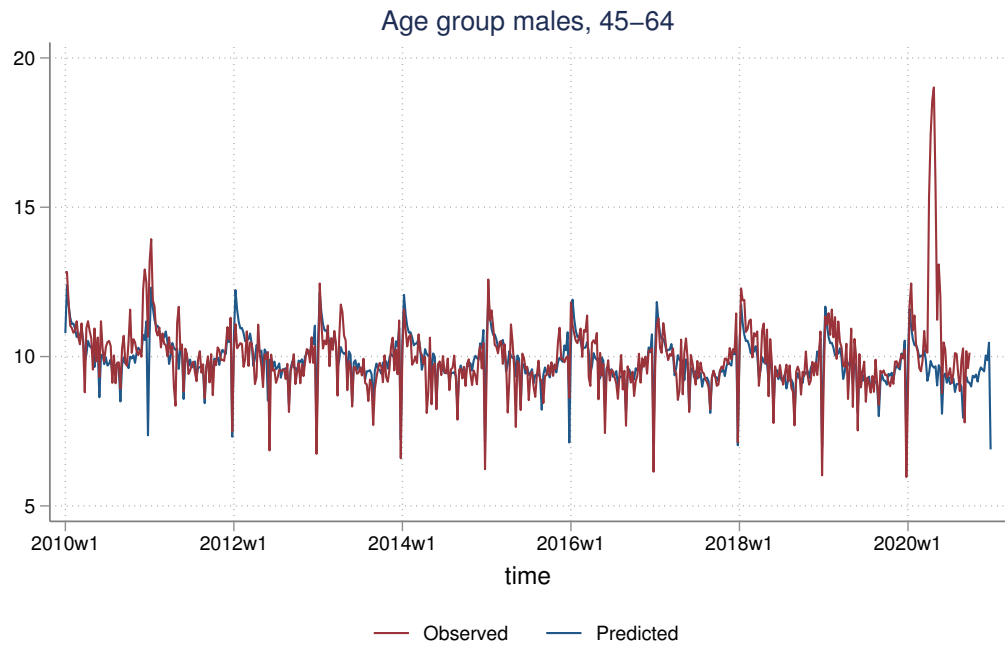


Figure 206: Males 45-64 mortality time trend and model, from 2019 wk1

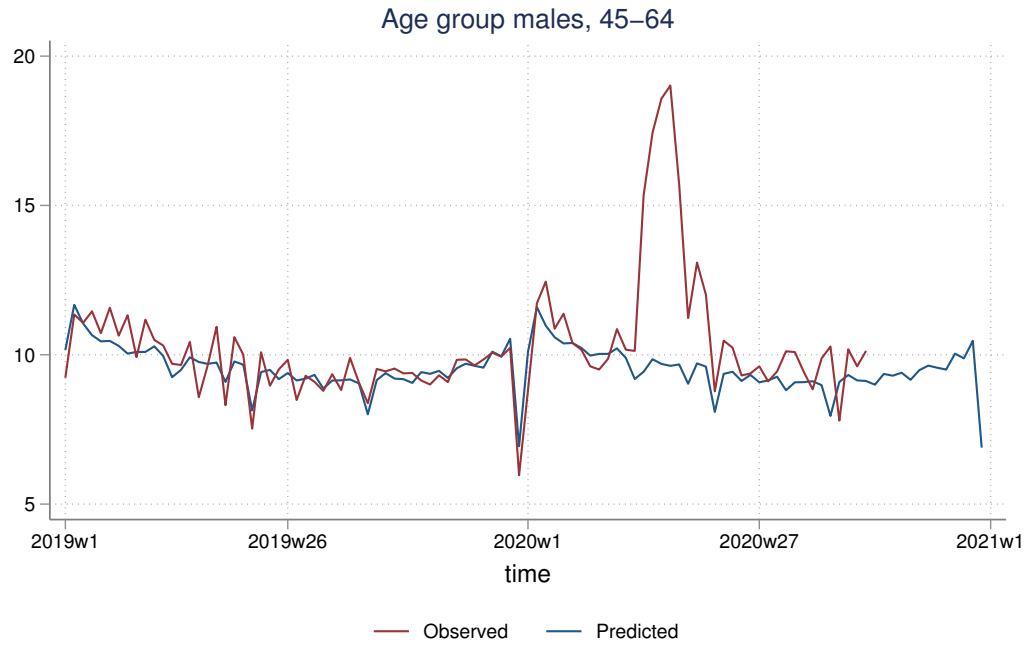


Figure 207: Males 45-64 mortality time trend and model, from 2020 wk1

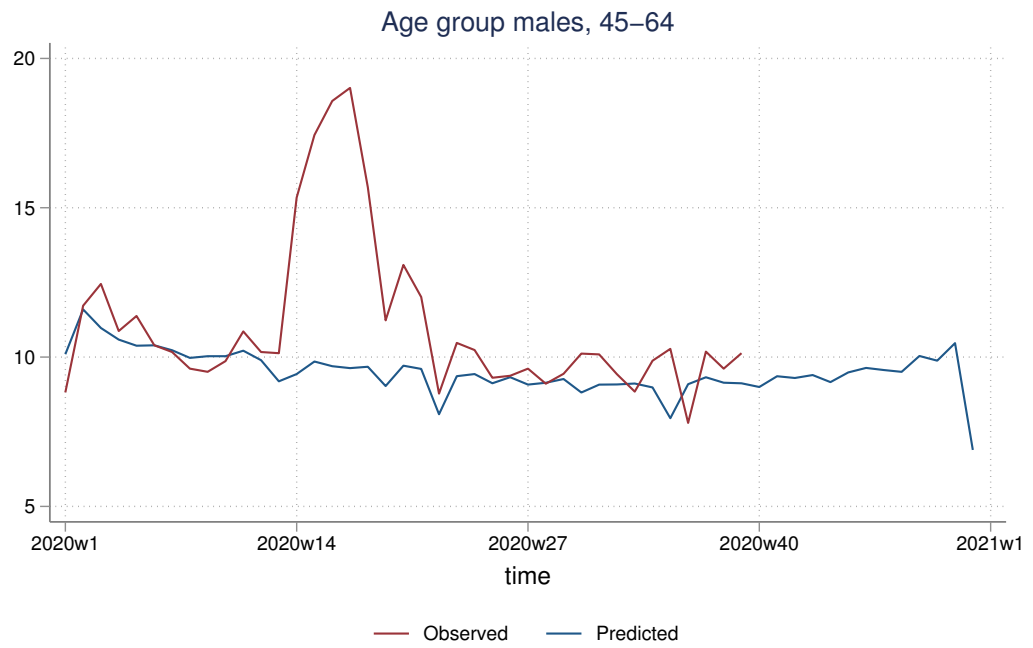


Figure 208: Males 45-64 all-cause excess deaths, from 2010 wk1

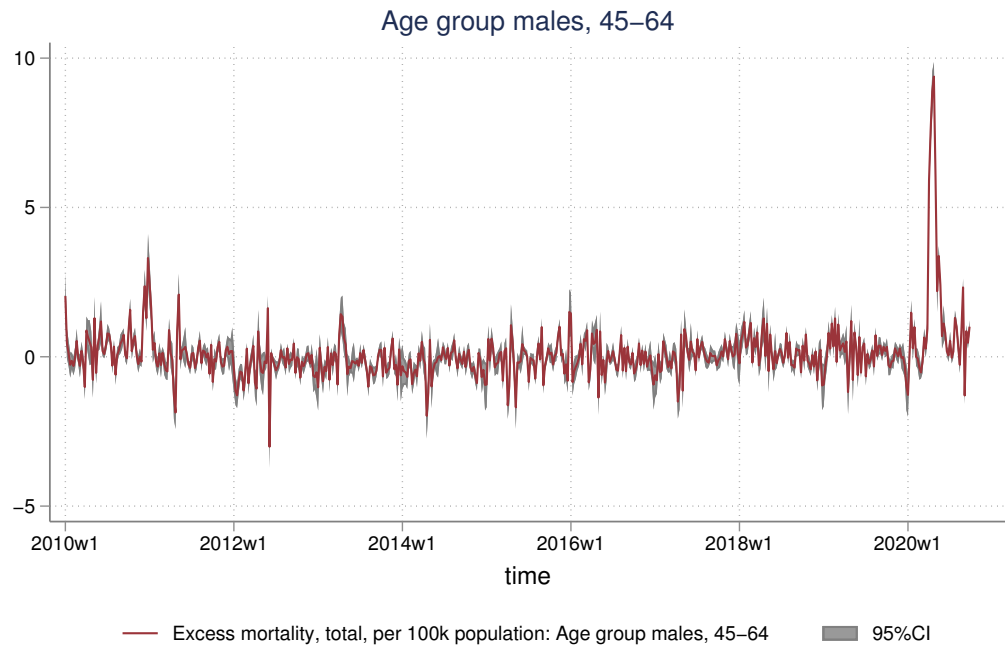


Figure 209: Males 45-64 all-cause excess deaths, from 2019 wk1

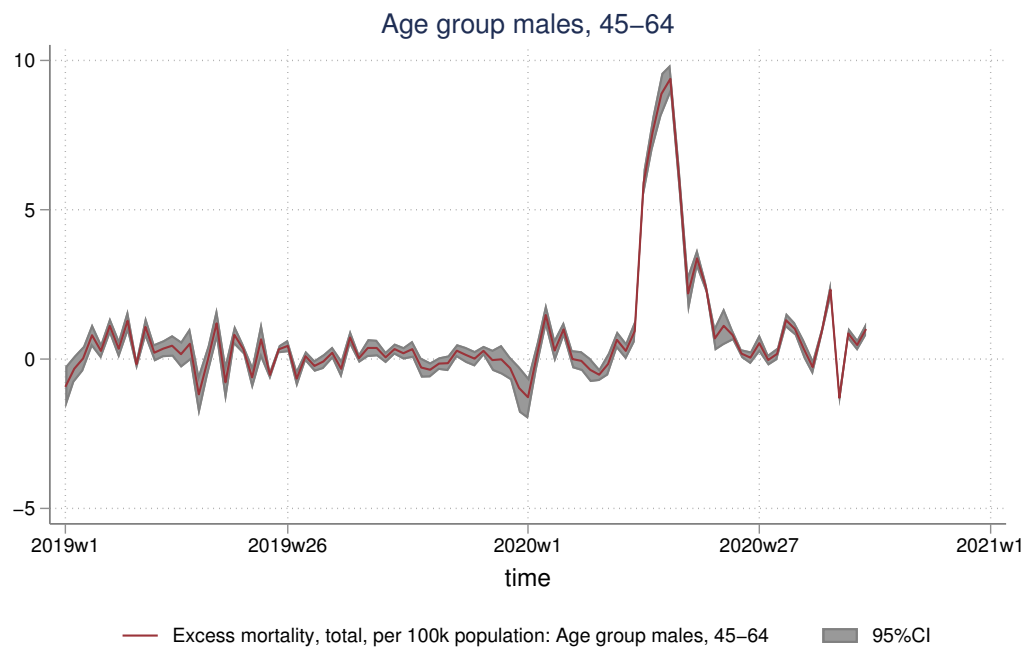


Figure 210: Males 45-64 all-cause excess deaths, from 2020 wk1



Figure 211: Males 45-64 all-cause excess deaths (-COVID19), from 2010 wk1

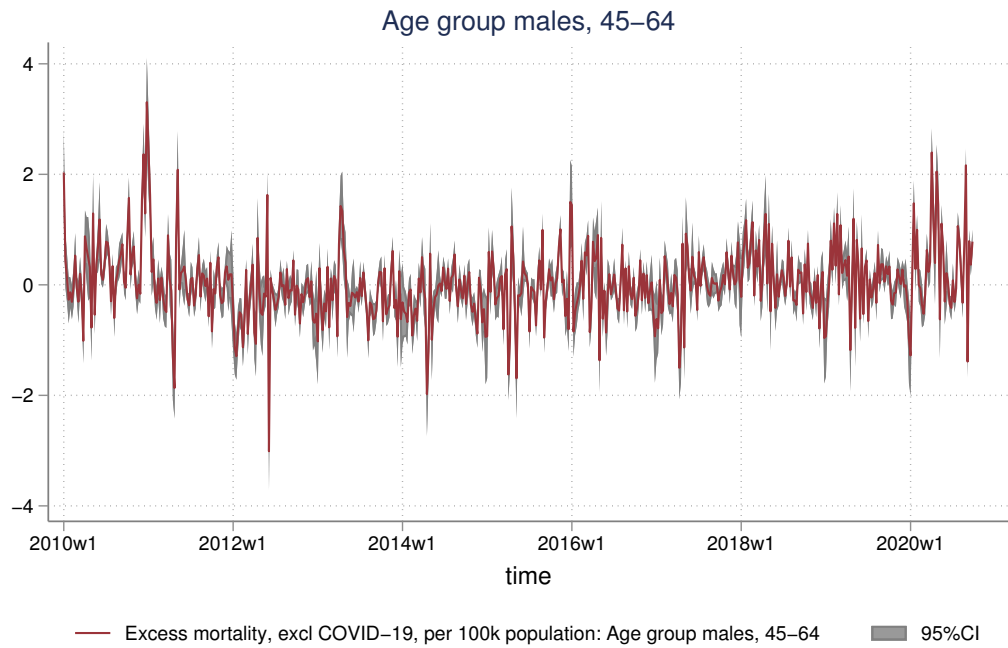


Figure 212: Males 45-64 all-cause excess deaths (-COVID19), from 2019 wk1

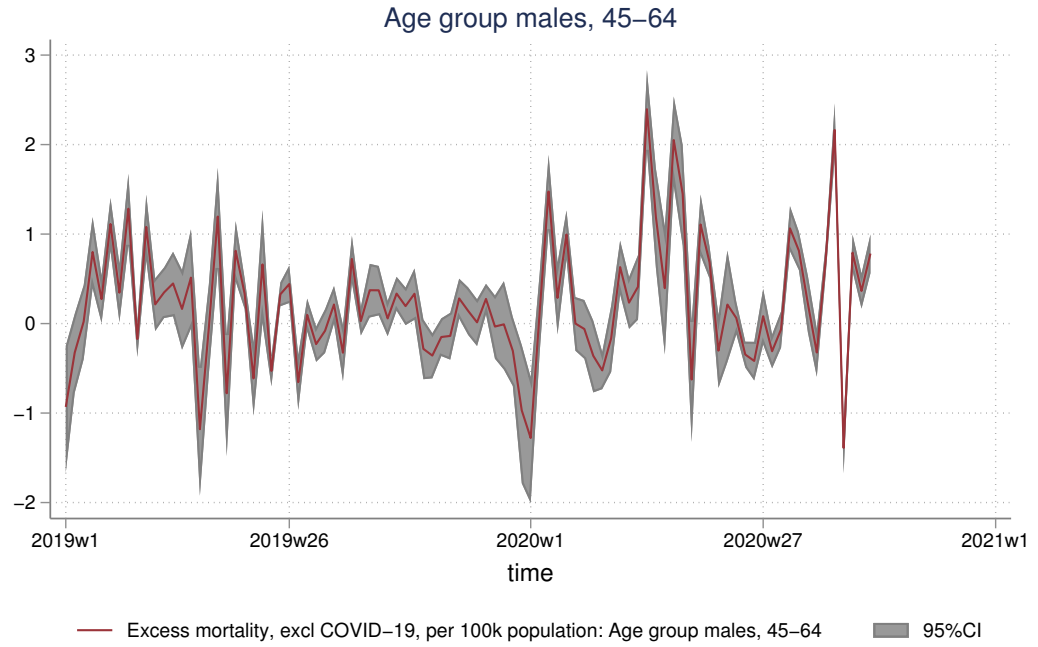
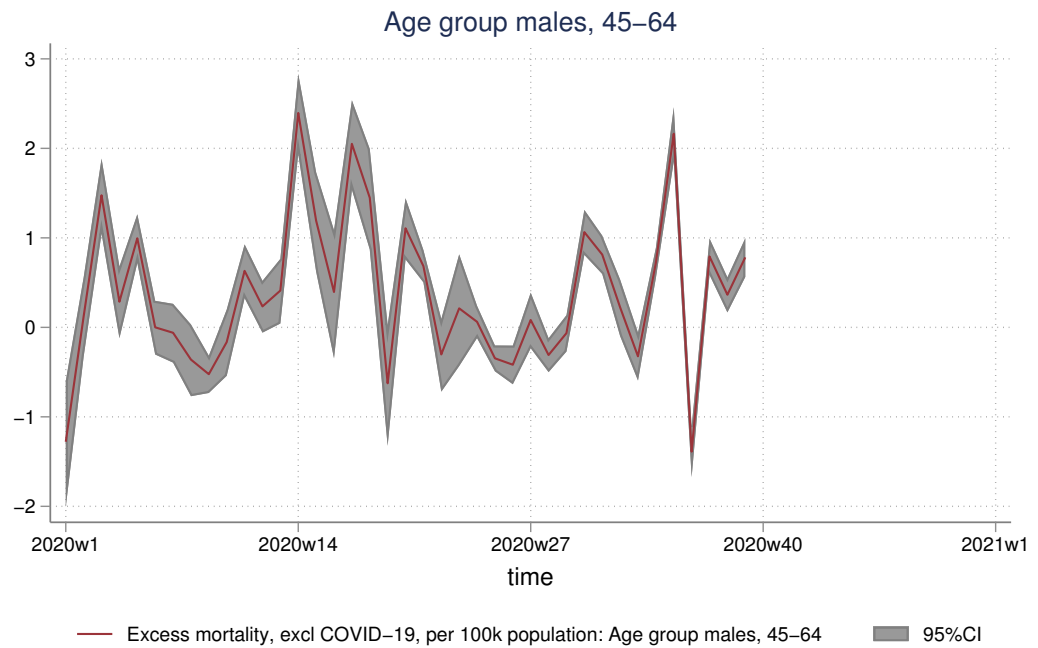


Figure 213: Males 45-64 all-cause excess deaths (-COVID19), from 2020 wk1



4.6 Males aged 65-74

Figure 214: Males 65-74 mortality time trend and model, from 2010 wk1

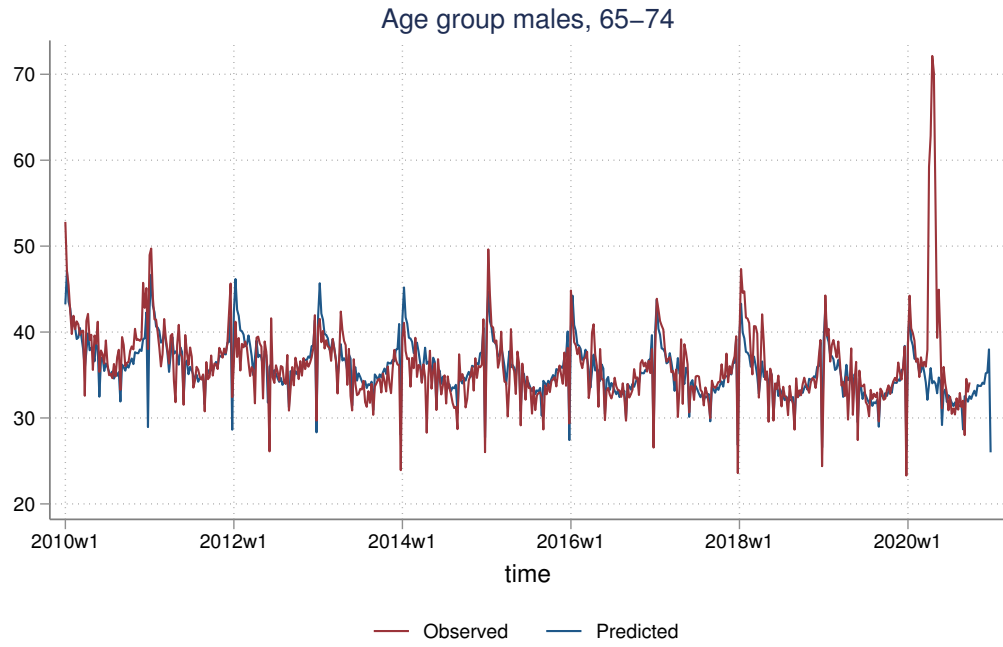


Figure 215: Males 65-74 mortality time trend and model, from 2019 wk1

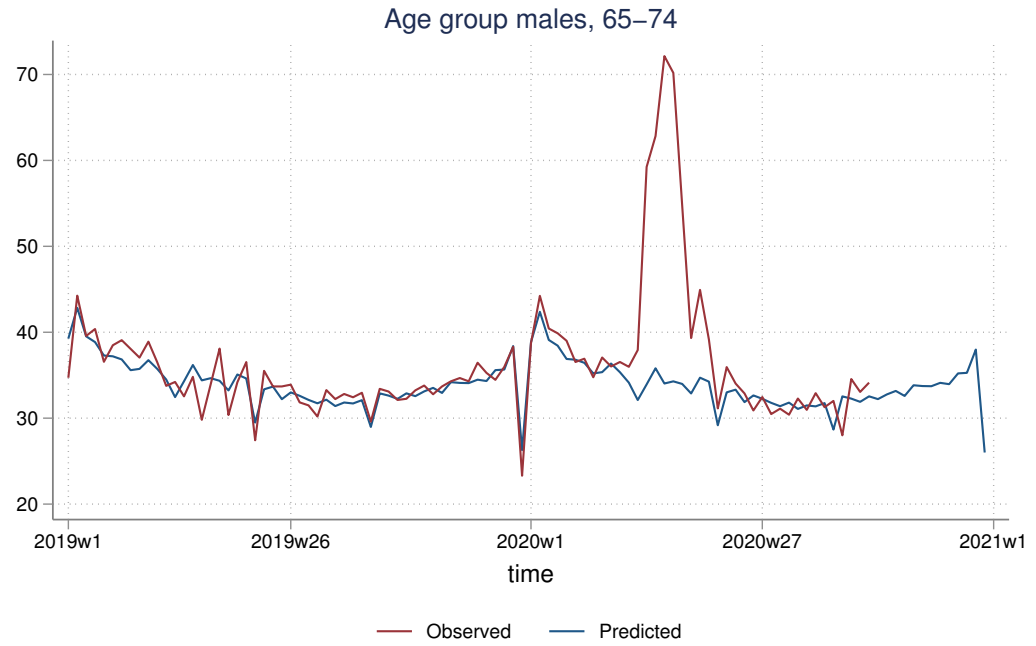


Figure 216: Males 65-74 mortality time trend and model, from 2020 wk1

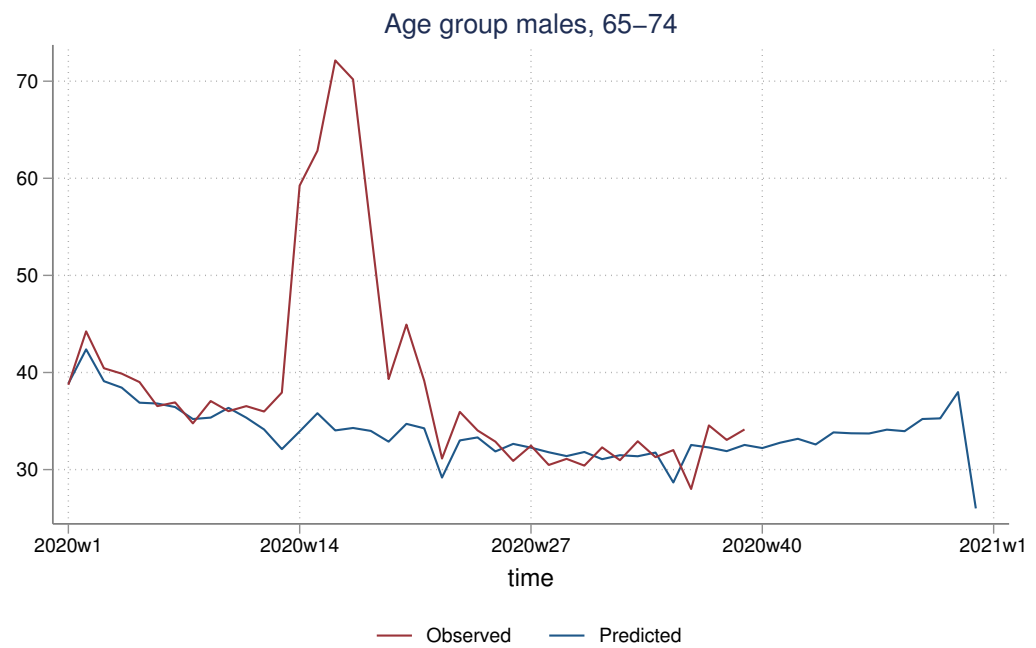


Figure 217: Males 65-74 all-cause excess deaths, from 2010 wk1

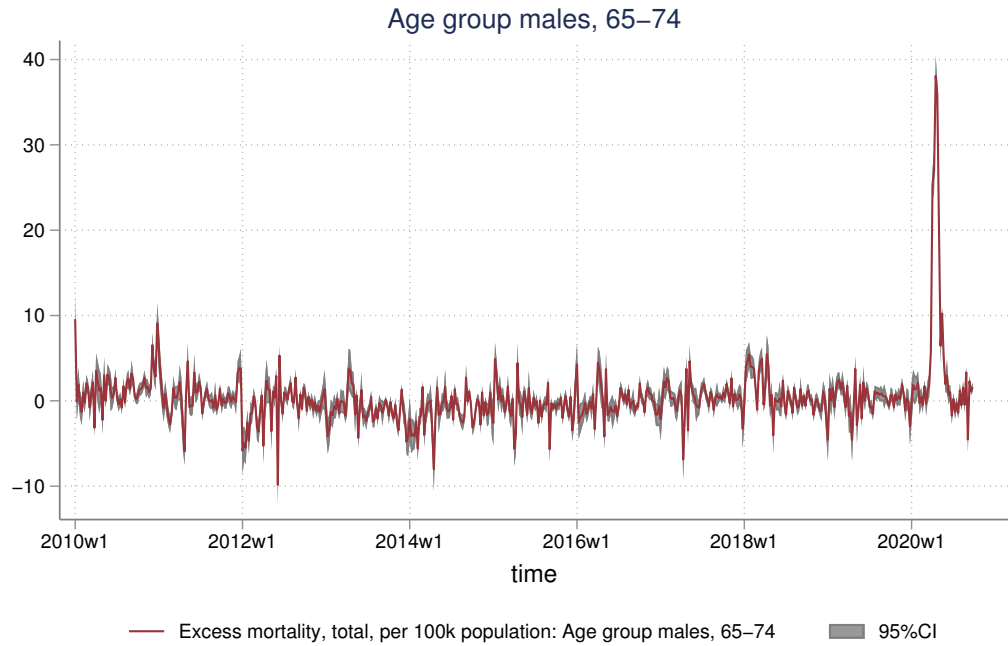


Figure 218: Males 65-74 all-cause excess deaths, from 2019 wk1

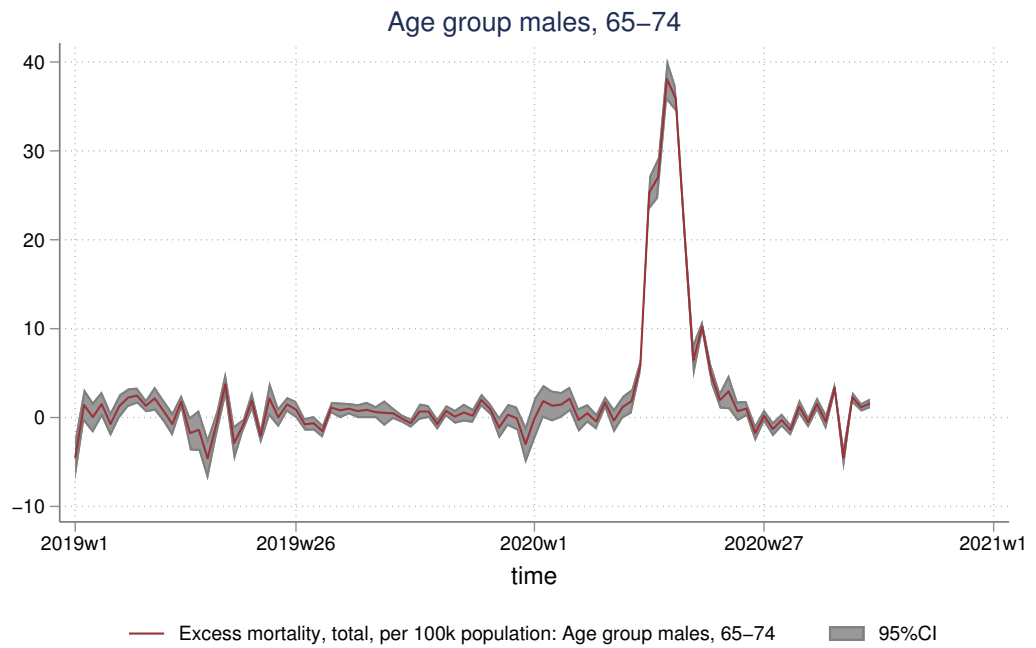


Figure 219: Males 65-74 all-cause excess deaths, from 2020 wk1

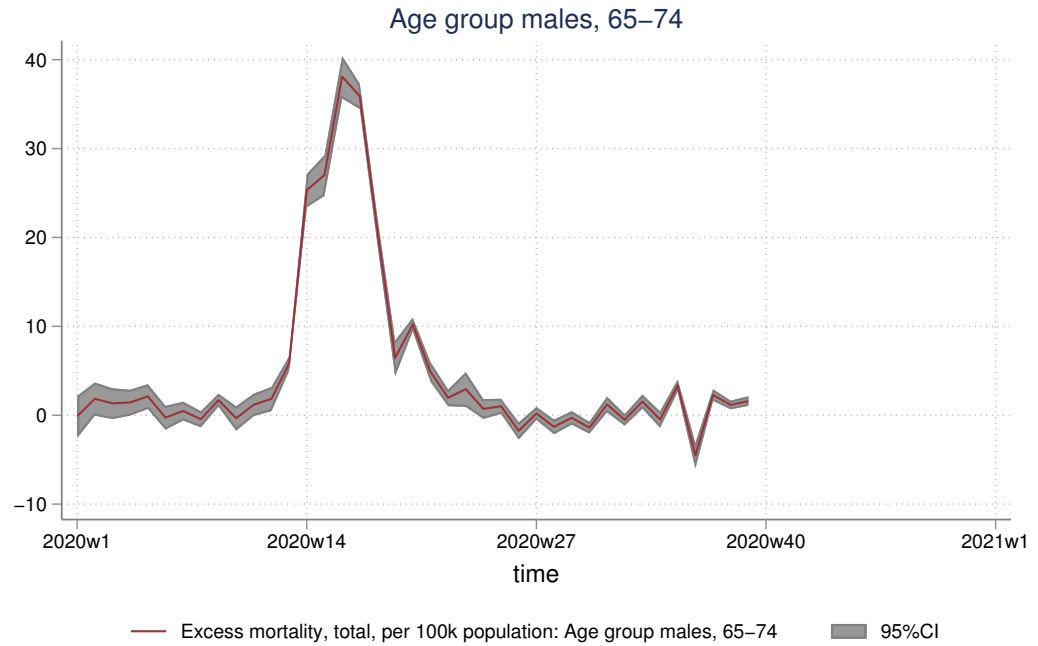


Figure 220: Males 65-74 all-cause excess deaths (-COVID19), from 2010 wk1

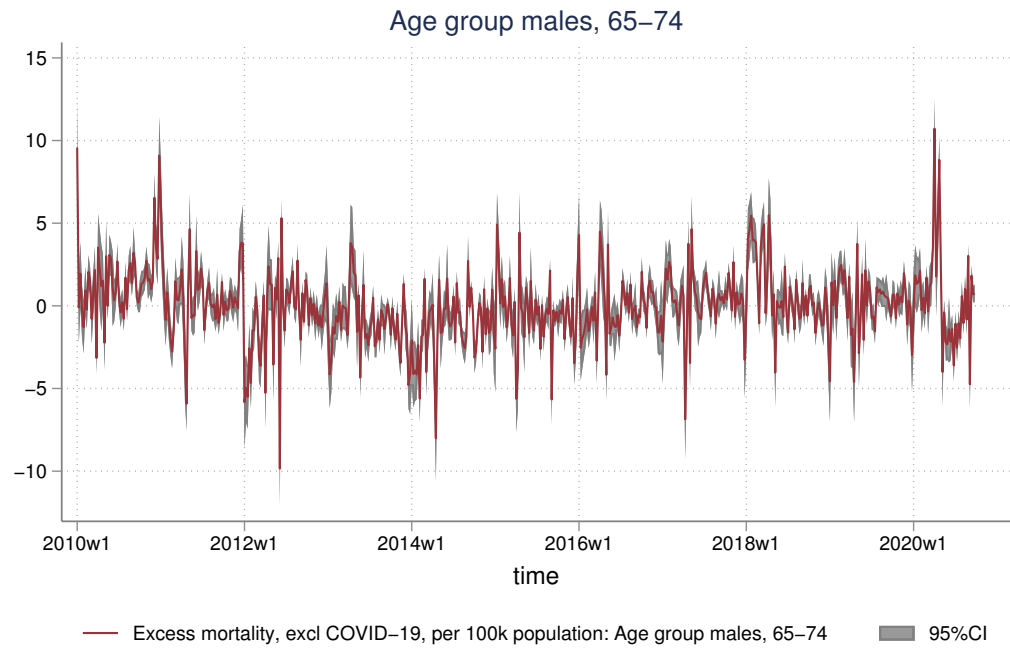


Figure 221: Males 65-74 all-cause excess deaths (-COVID19), from 2019 wk1

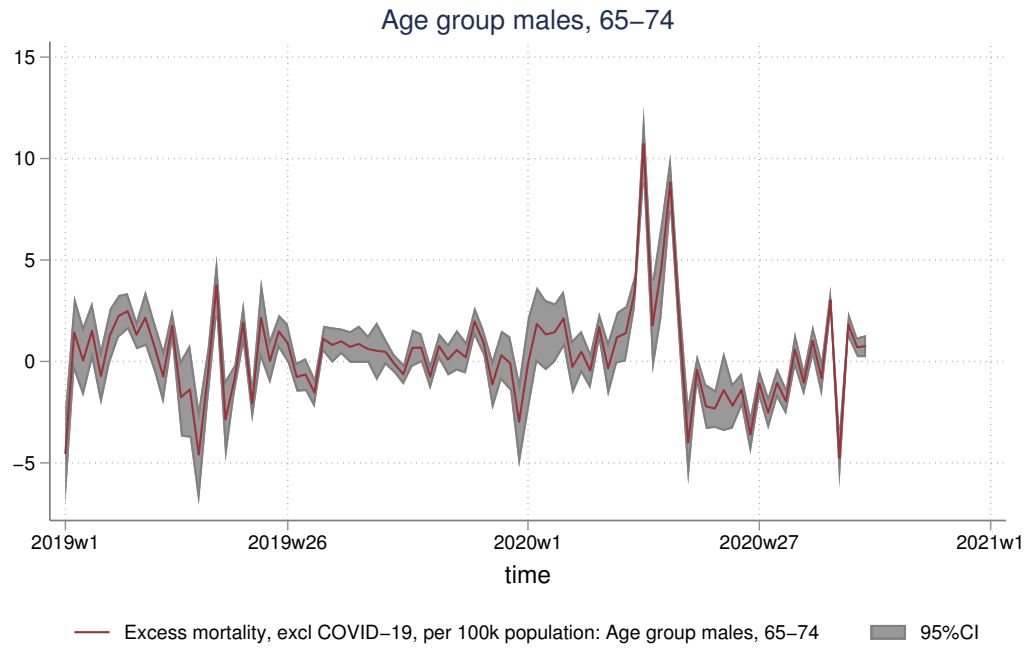
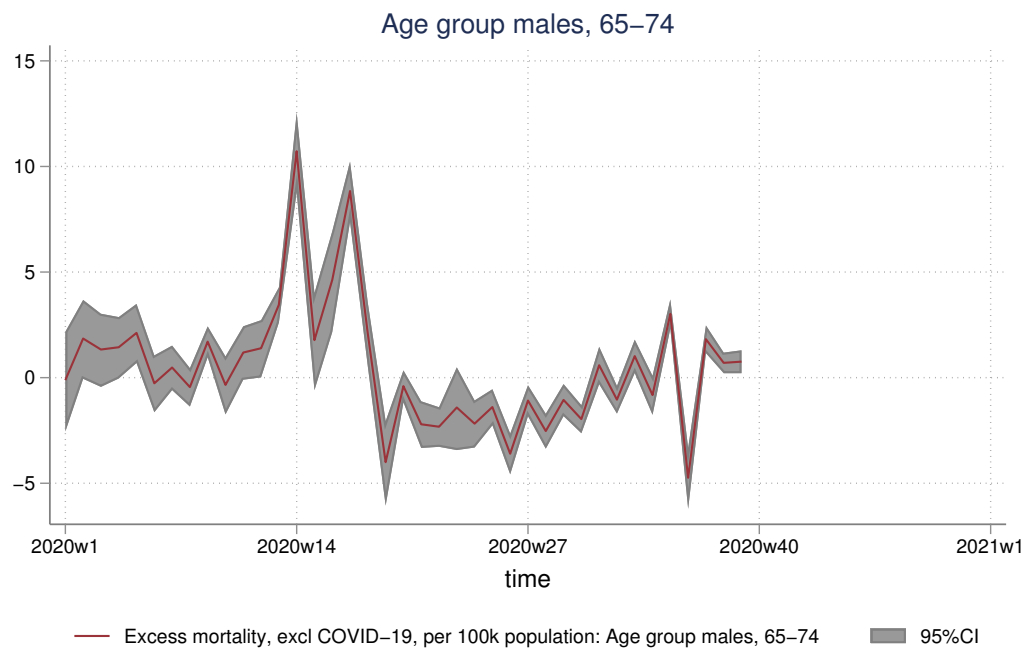


Figure 222: Males 65-74 all-cause excess deaths (-COVID19), from 2020 wk1



4.7 Males aged 75-84

Figure 223: Males 75-84 mortality time trend and model, from 2010 wk1

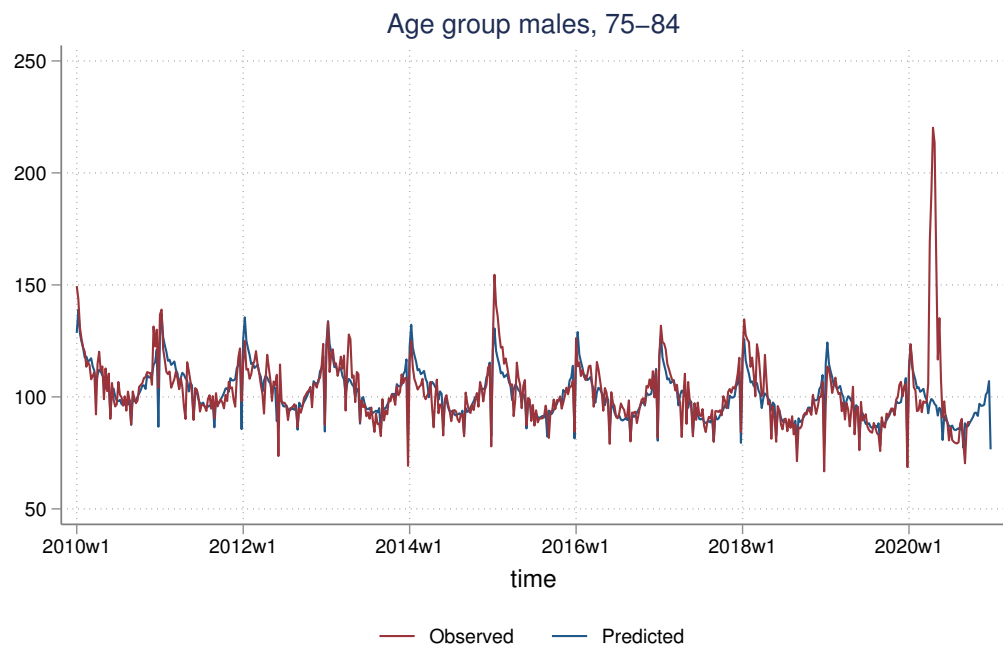


Figure 224: Males 75-84 mortality time trend and model, from 2019 wk1

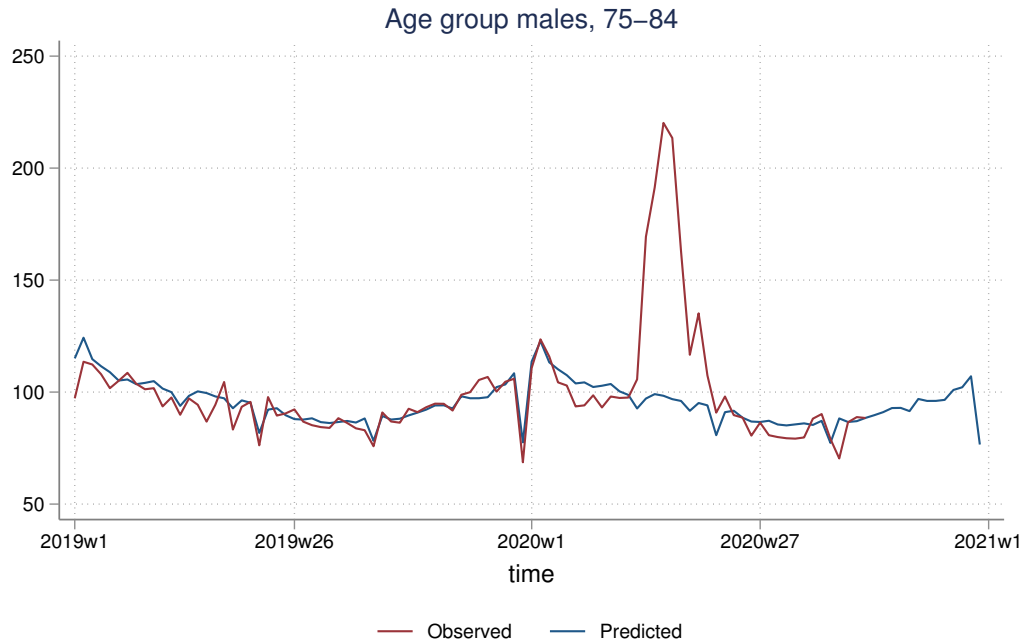


Figure 225: Males 75-84 mortality time trend and model, from 2020 wk1

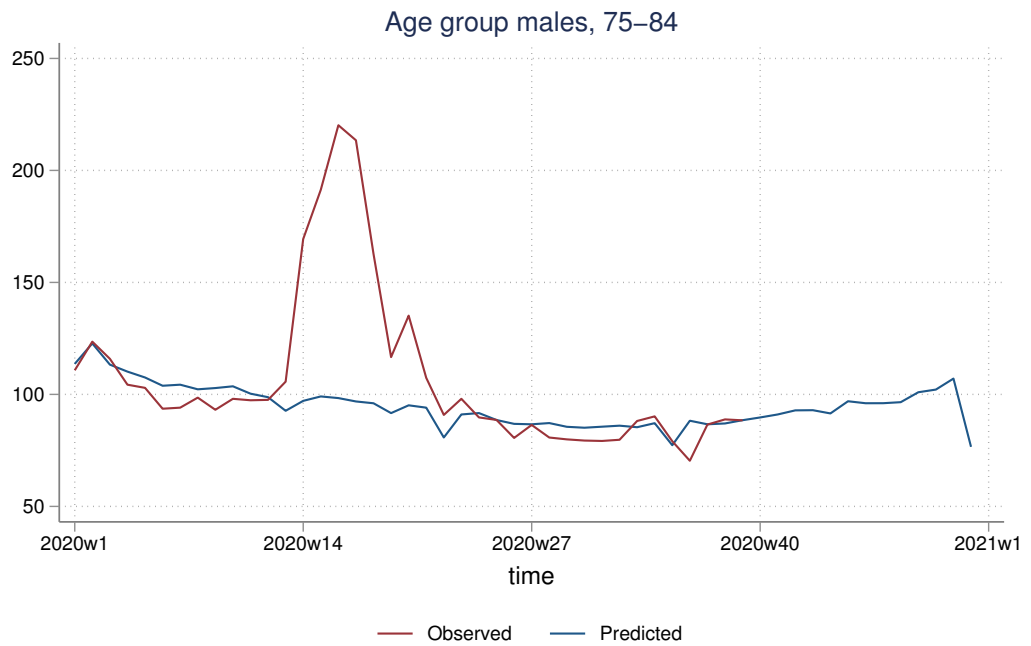


Figure 226: Males 75-84 all-cause excess deaths, from 2010 wk1

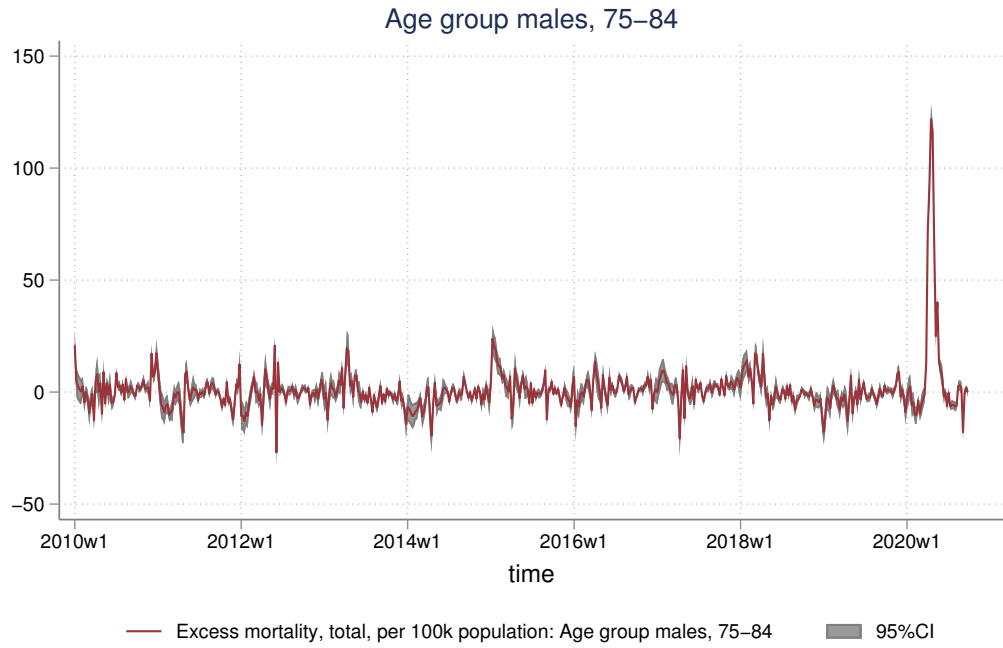


Figure 227: Males 75-84 all-cause excess deaths, from 2019 wk1

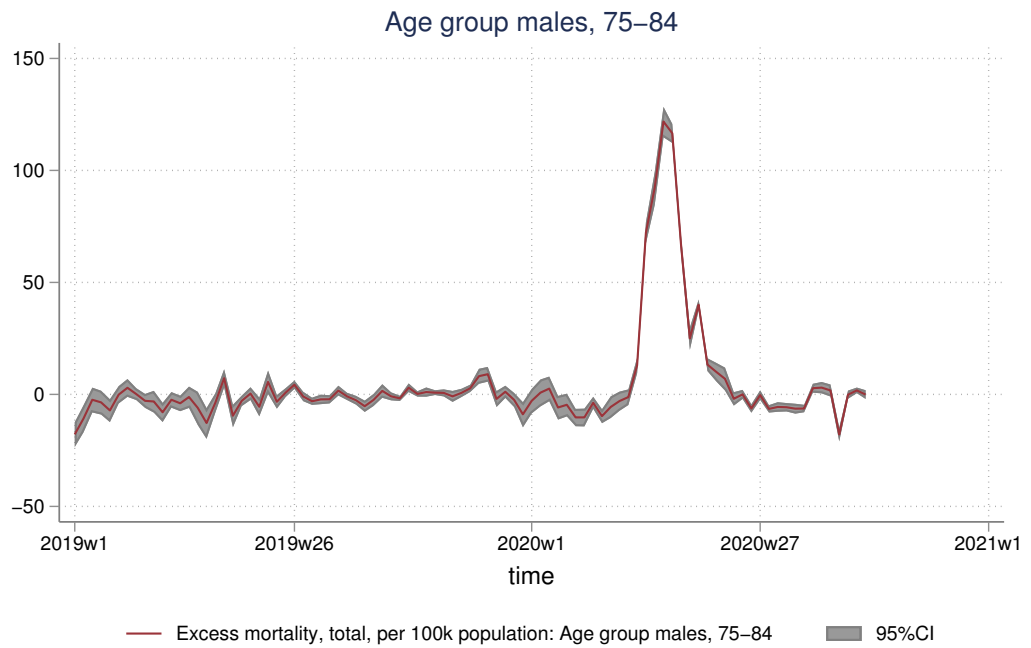


Figure 228: Males 75-84 all-cause excess deaths, from 2020 wk1

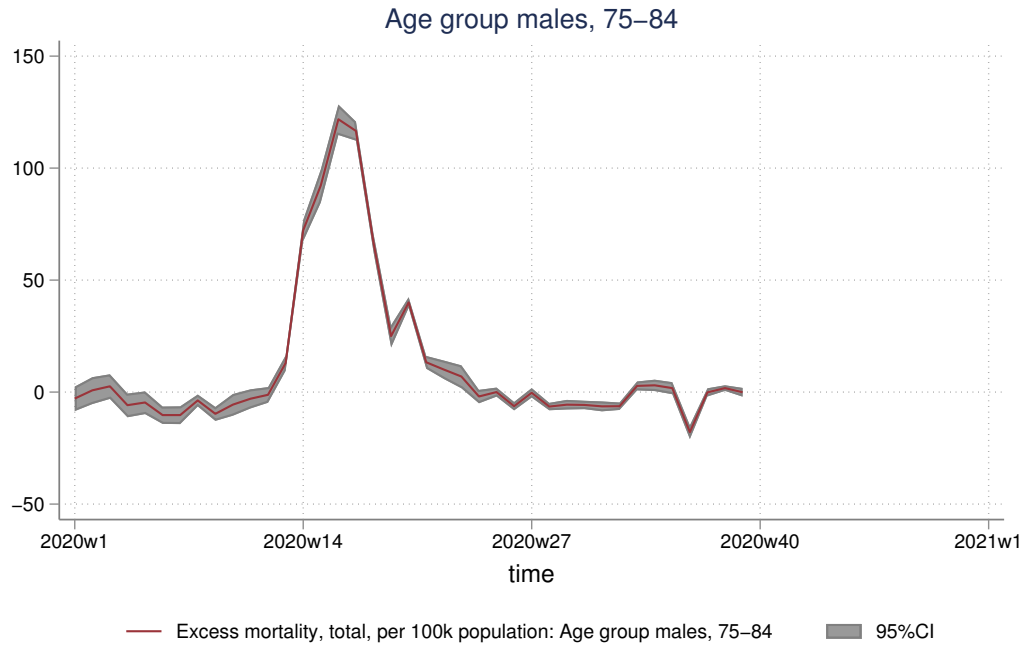


Figure 229: Males 75-84 all-cause excess deaths (-COVID19), from 2010 wk1

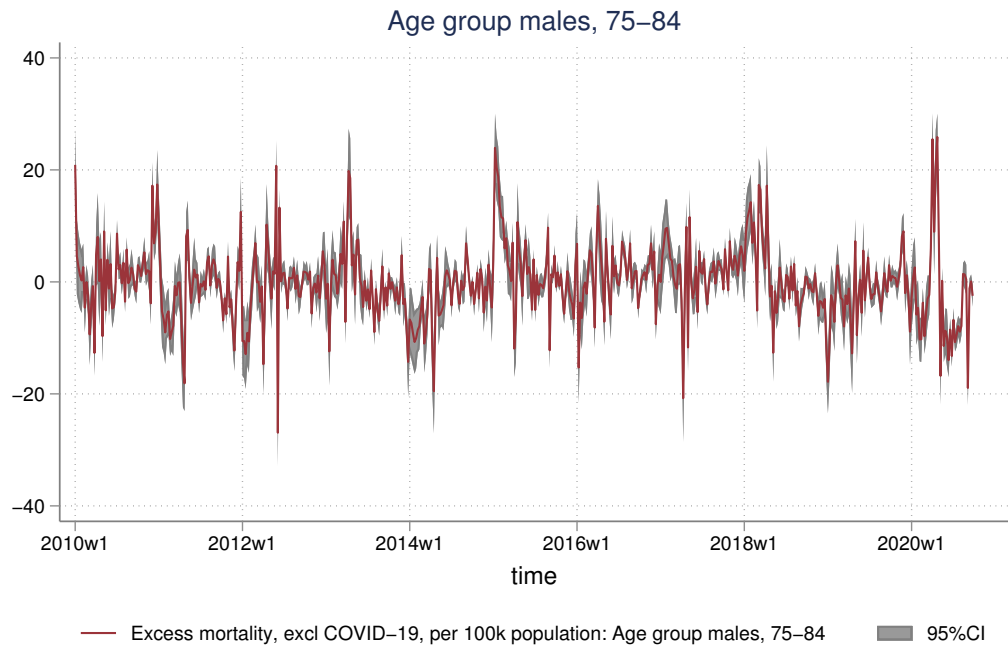


Figure 230: Males 75-84 all-cause excess deaths (-COVID19), from 2019 wk1

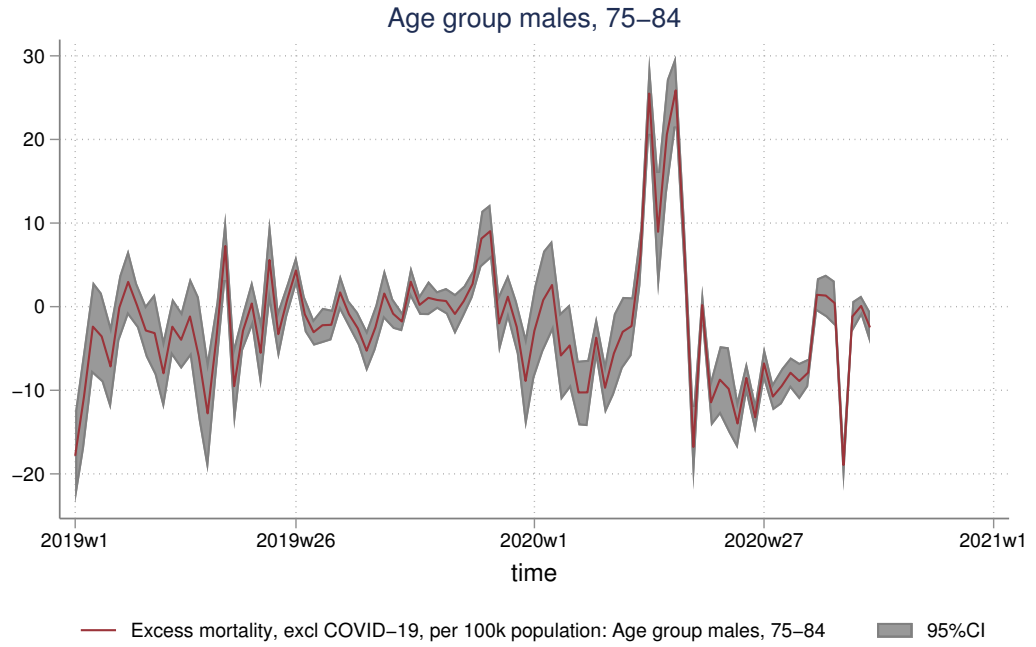
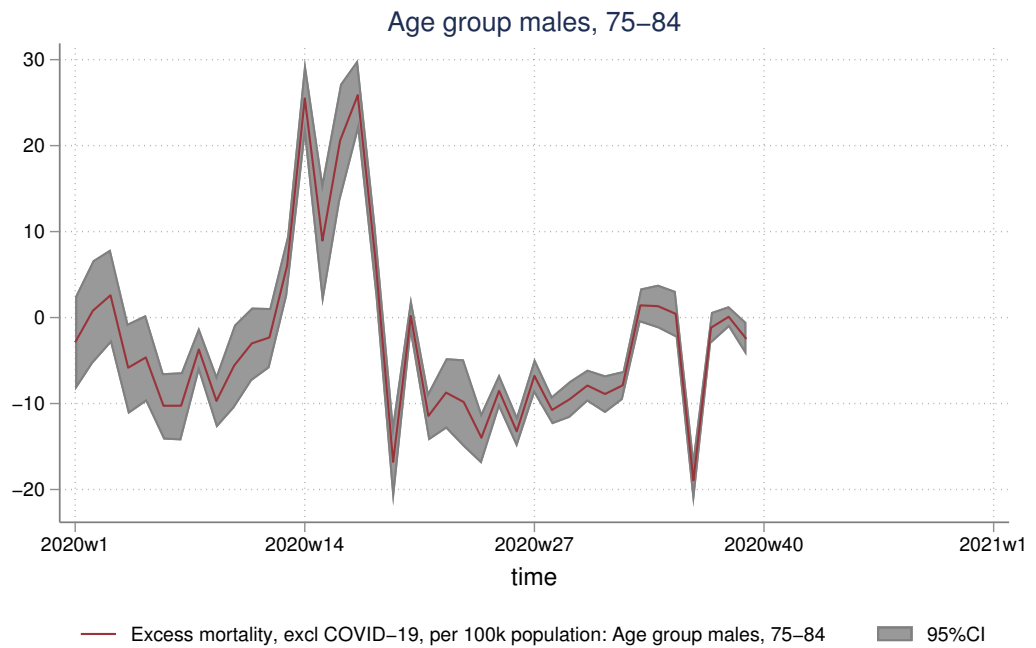


Figure 231: Males 75-84 all-cause excess deaths (-COVID19), from 2020 wk1



4.8 Males aged 85+

Figure 232: Males 85+ mortality time trend and model, from 2010 wk1

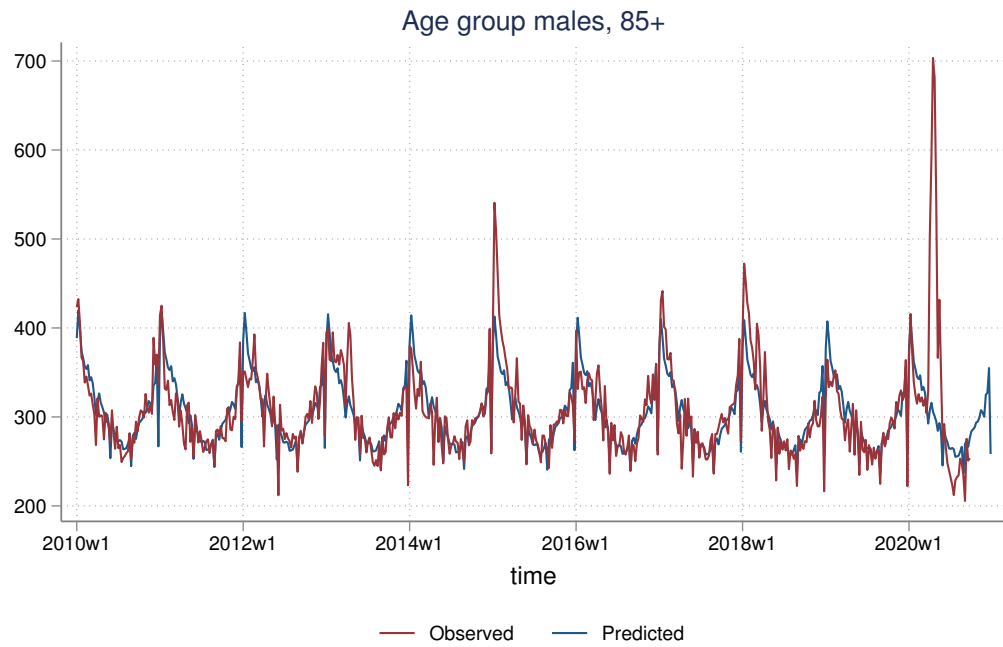


Figure 233: Males 85+ mortality time trend and model, from 2019 wk1

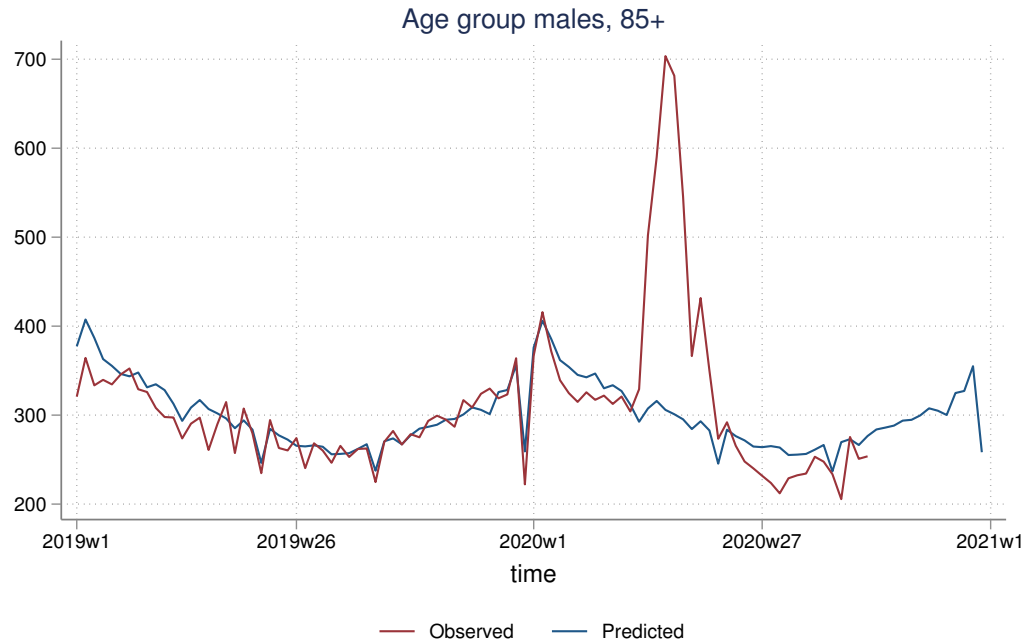


Figure 234: Males 85+ mortality time trend and model, from 2020 wk1

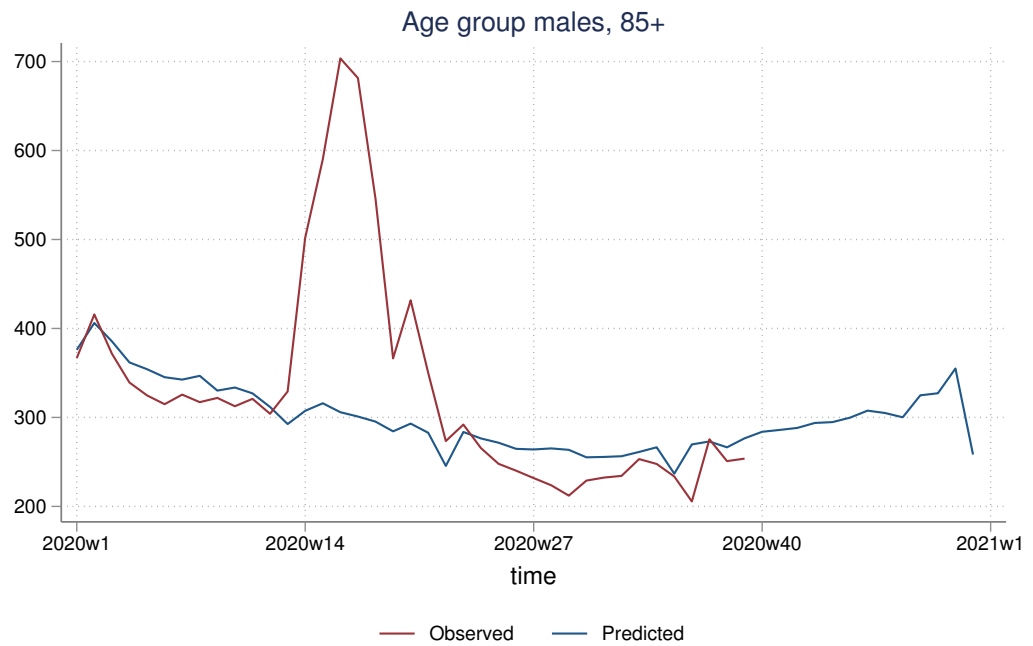


Figure 235: Males 85+ all-cause excess deaths, from 2010 wk1

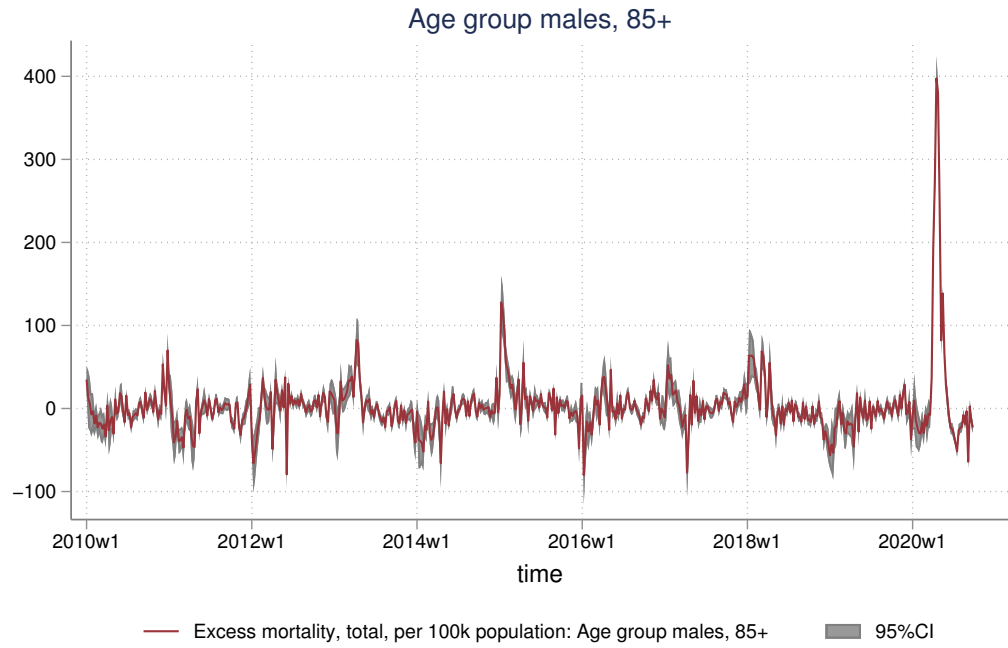


Figure 236: Males 85+ all-cause excess deaths, from 2019 wk1

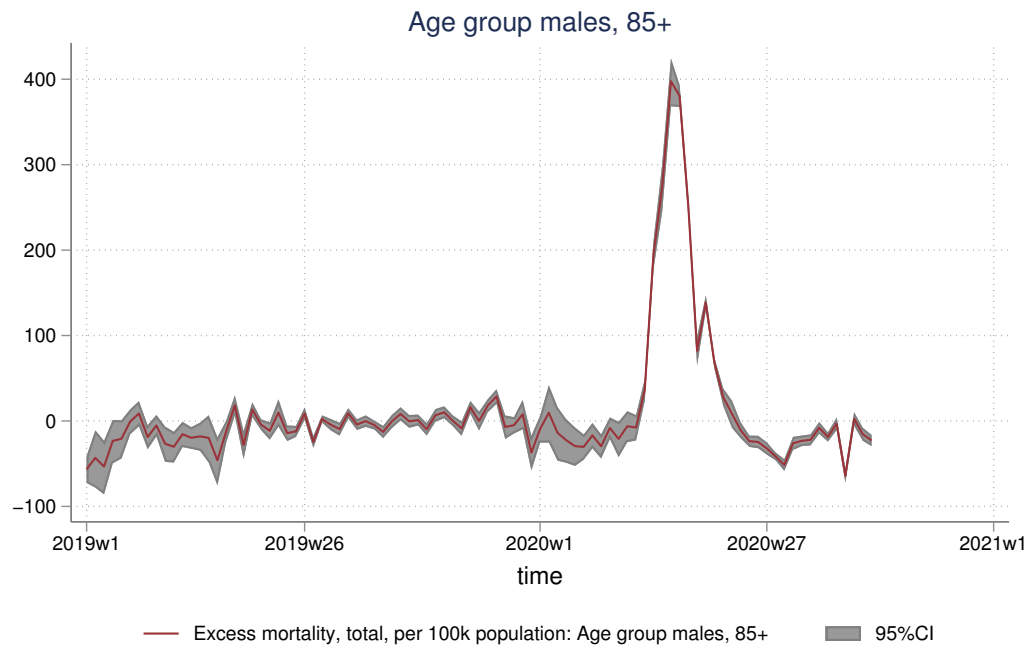


Figure 237: Males 85+ all-cause excess deaths, from 2020 wk1

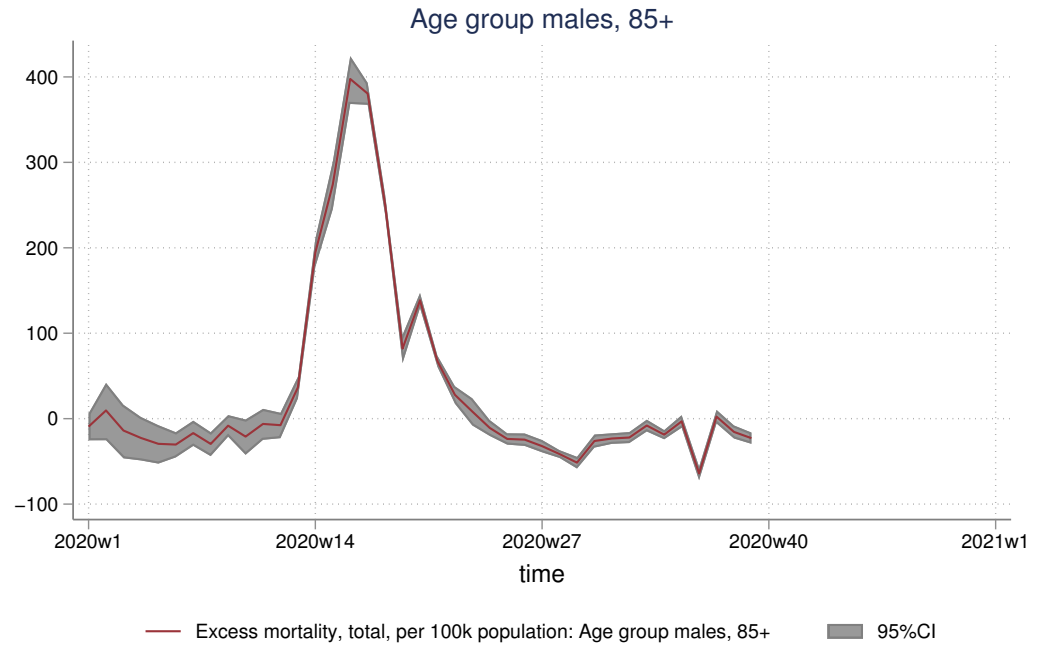


Figure 238: Males 85+ all-cause excess deaths (-COVID19), from 2010 wk1

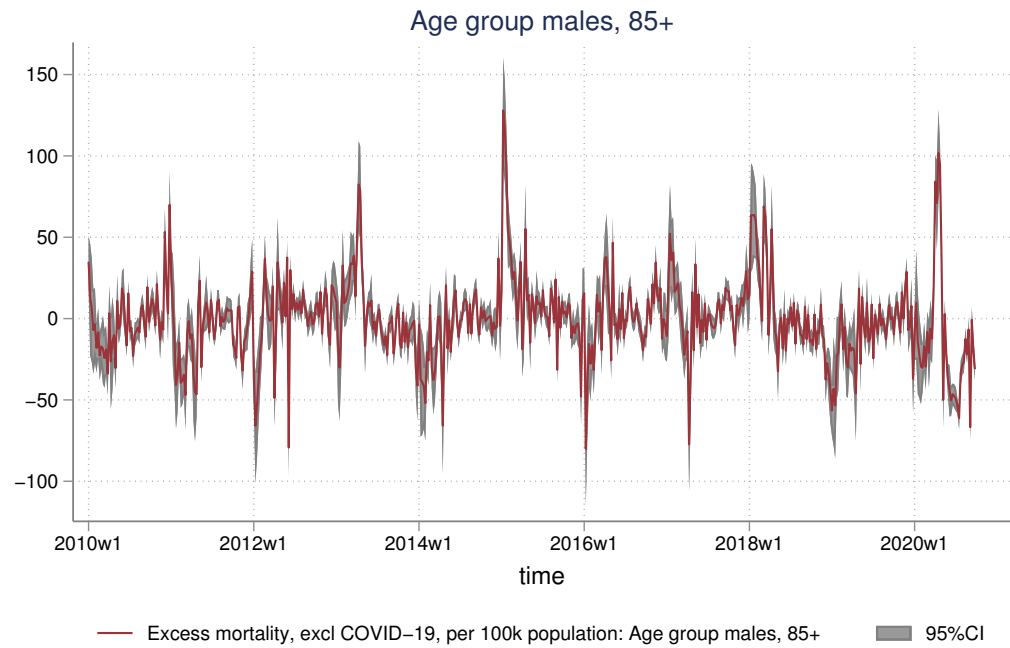


Figure 239: Males 85+ all-cause excess deaths (-COVID19), from 2019 wk1

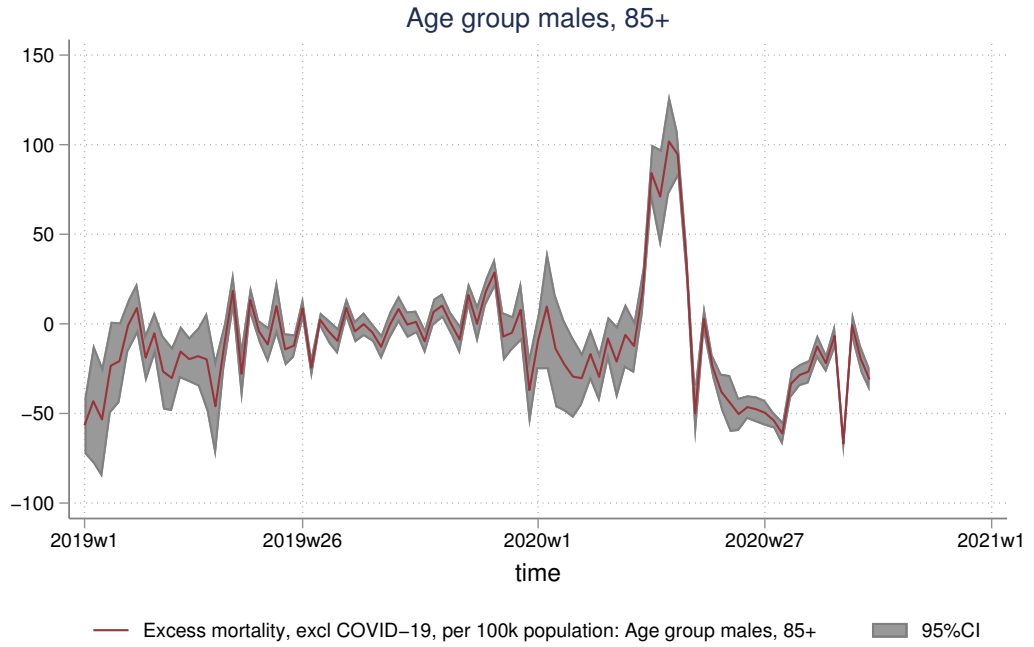
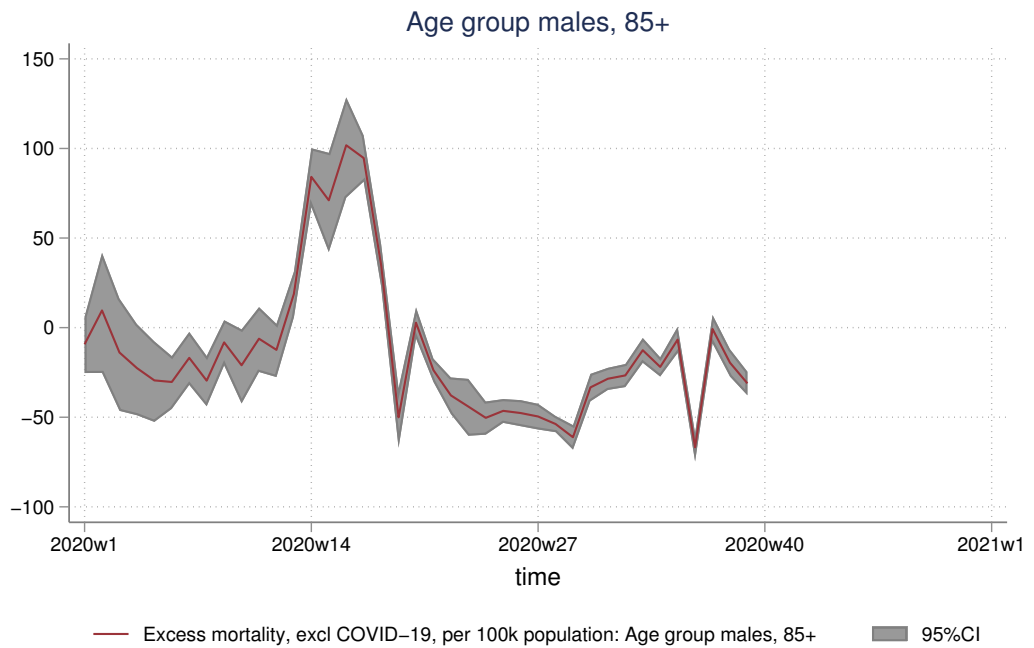


Figure 240: Males 85+ all-cause excess deaths (-COVID19), from 2020 wk1



5 Age groups, per 100k females

5.1 Time trends

Figure 241: Female age group mortality time trends, fm 2010 wk1

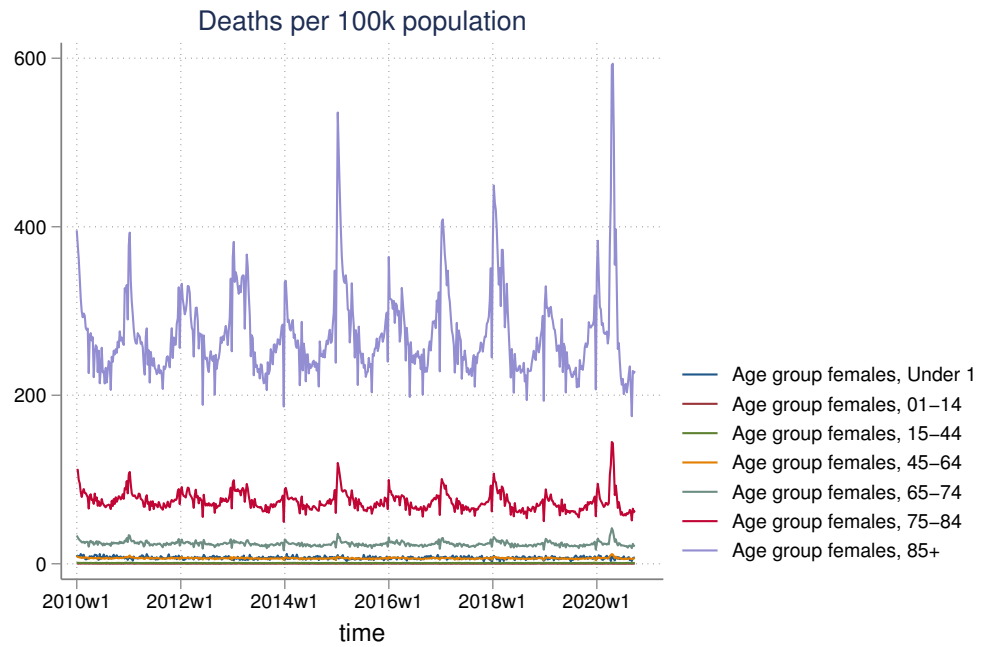


Figure 242: Female age group mortality time trends, fm 2019 wk1

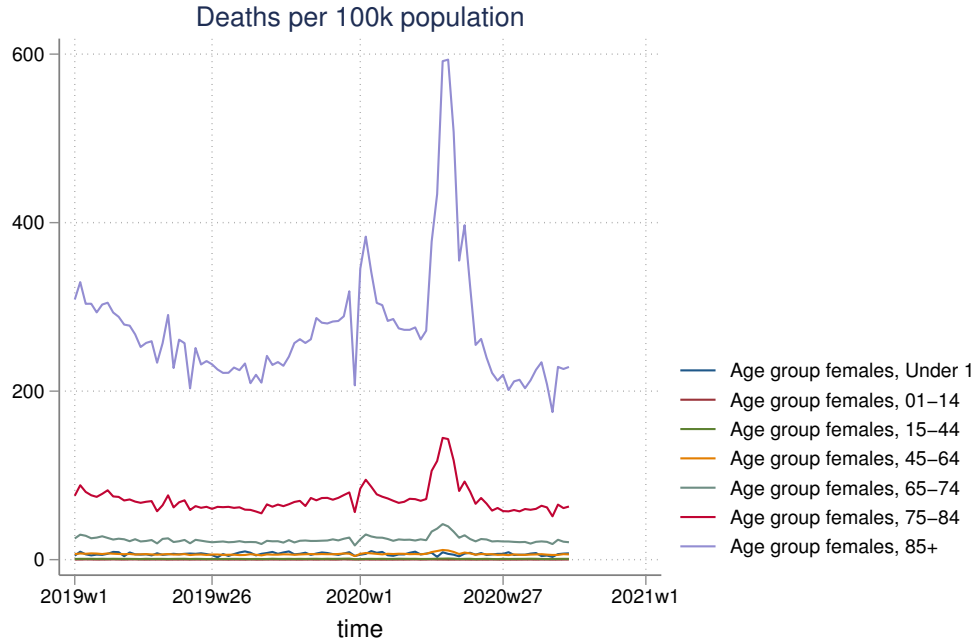
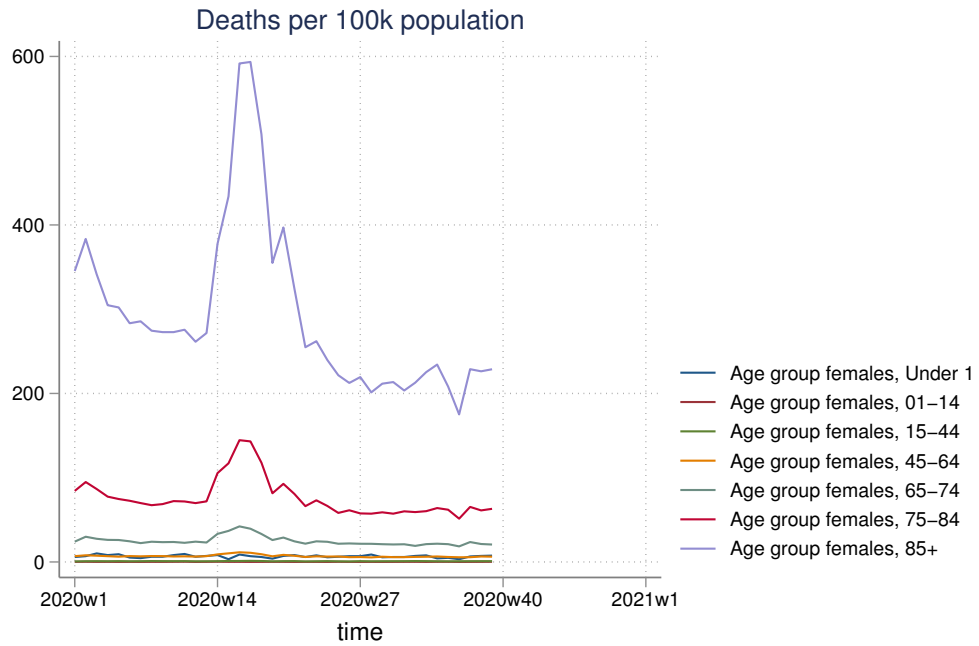


Figure 243: Female age group mortality time trends, fm 2020 wk1



5.2 Females aged under 1

Figure 244: Females < 1 mortality time trend and model, fm 2010 wk1

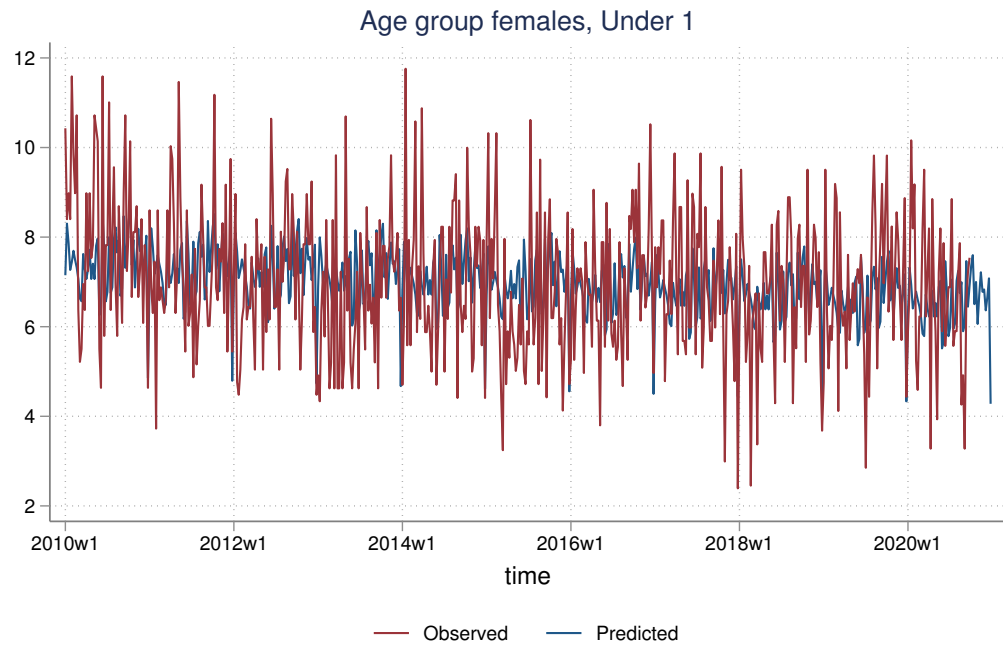


Figure 245: Females < 1 mortality time trend and model, fm 2019 wk1

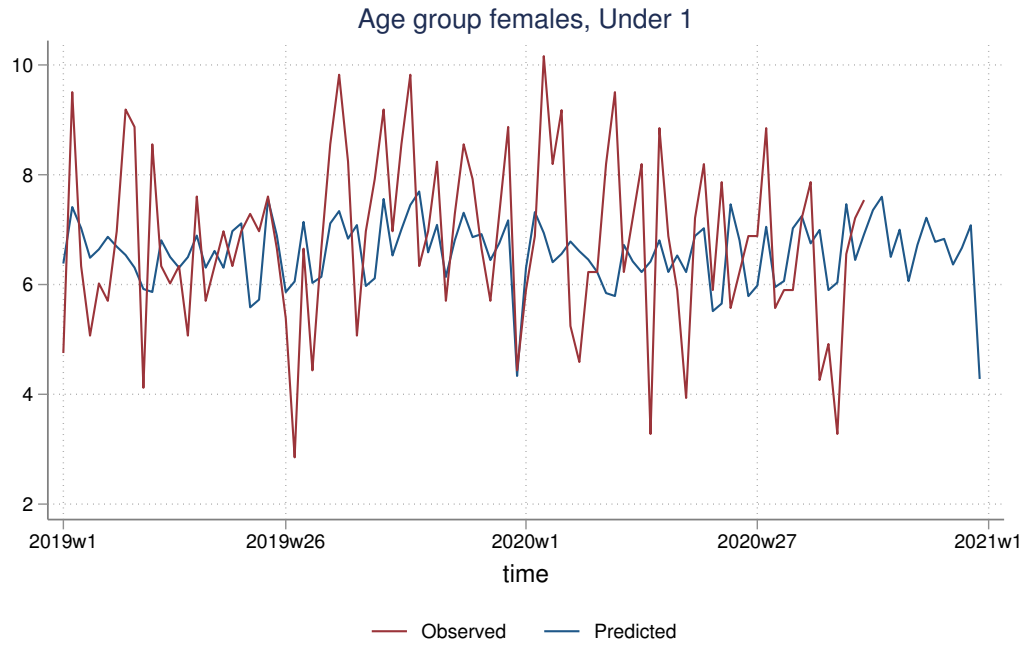


Figure 246: Females < 1 mortality time trend and model, fm 2020 wk1

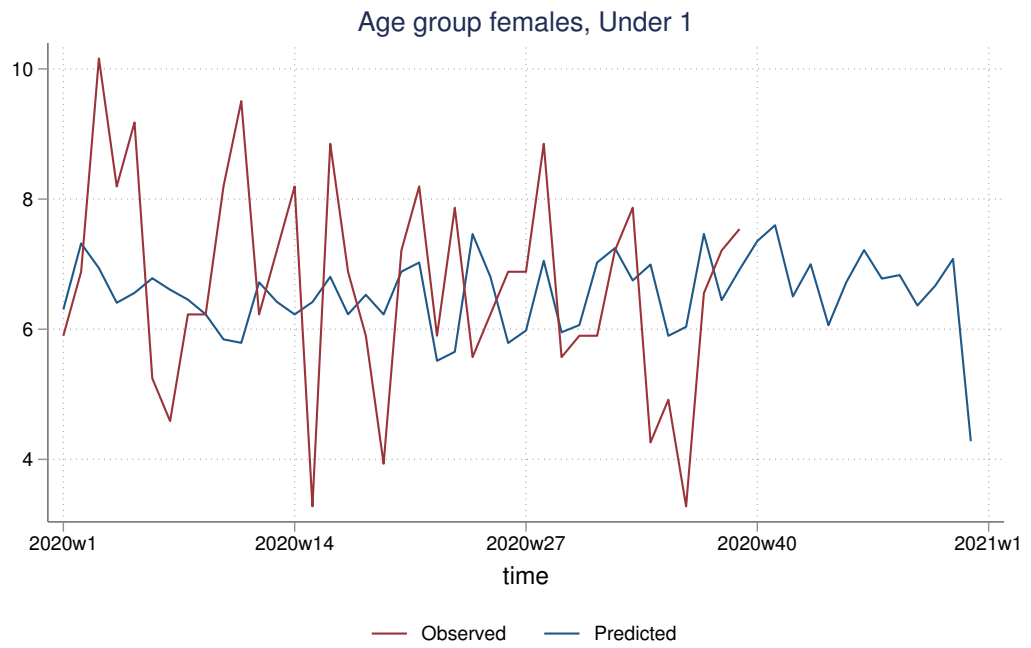


Figure 247: Females < 1 all-cause excess deaths, fm 2010 wk1

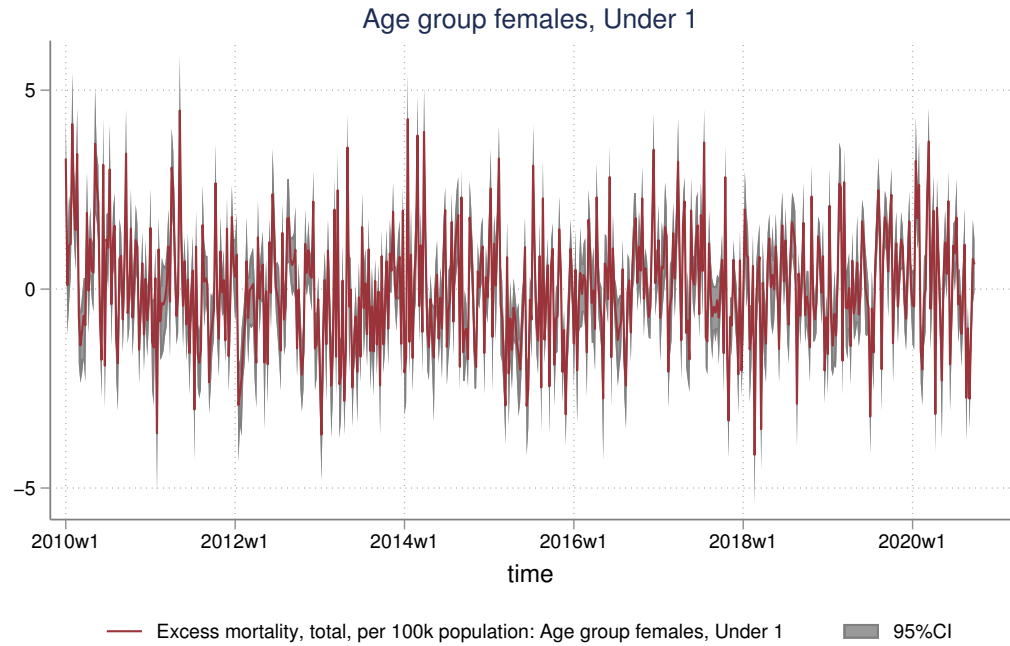


Figure 248: Females < 1 all-cause excess deaths, fm 2019 wk1

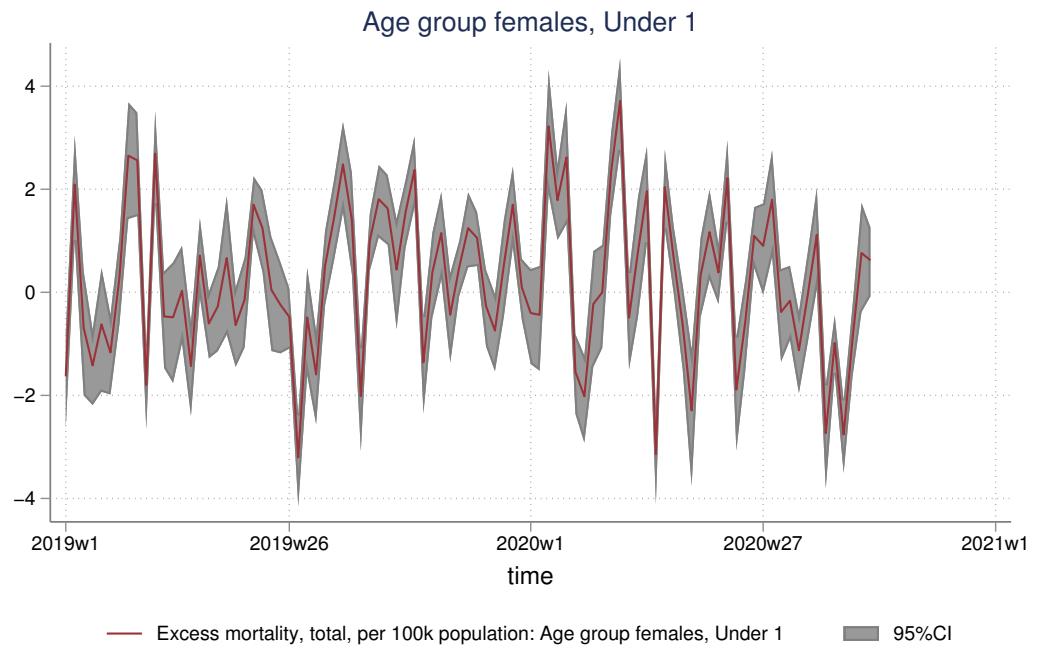


Figure 249: Females < 1 all-cause excess deaths, fm 2020 wk1



Figure 250: Females < 1 all-cause excess deaths minus COVID19, fm 2010 wk1

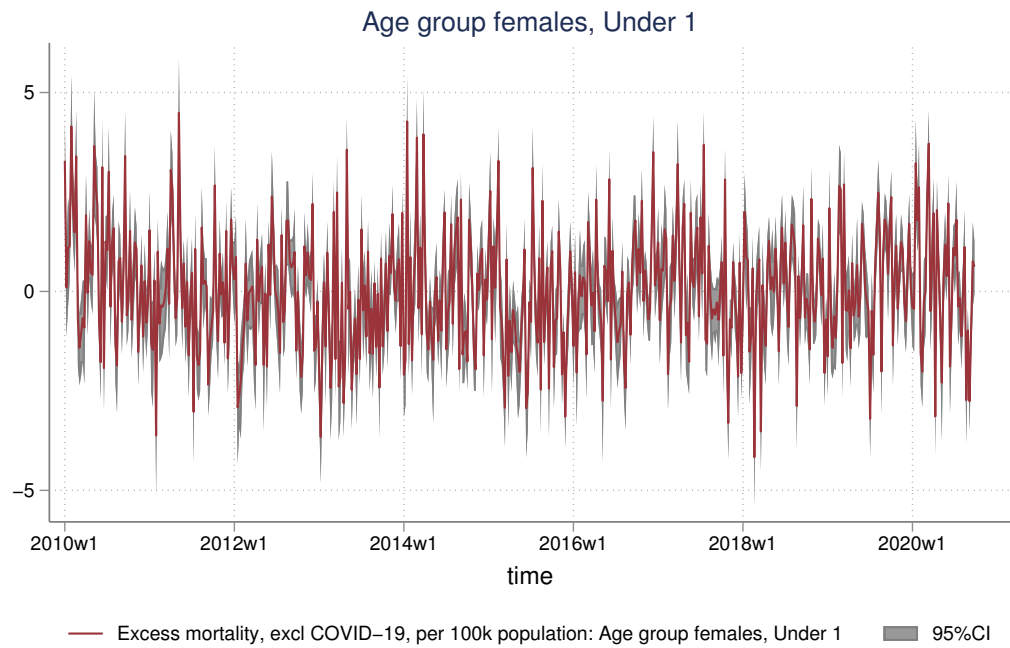


Figure 251: Females < 1 all-cause excess deaths minus COVID19, fm 2019 wk1

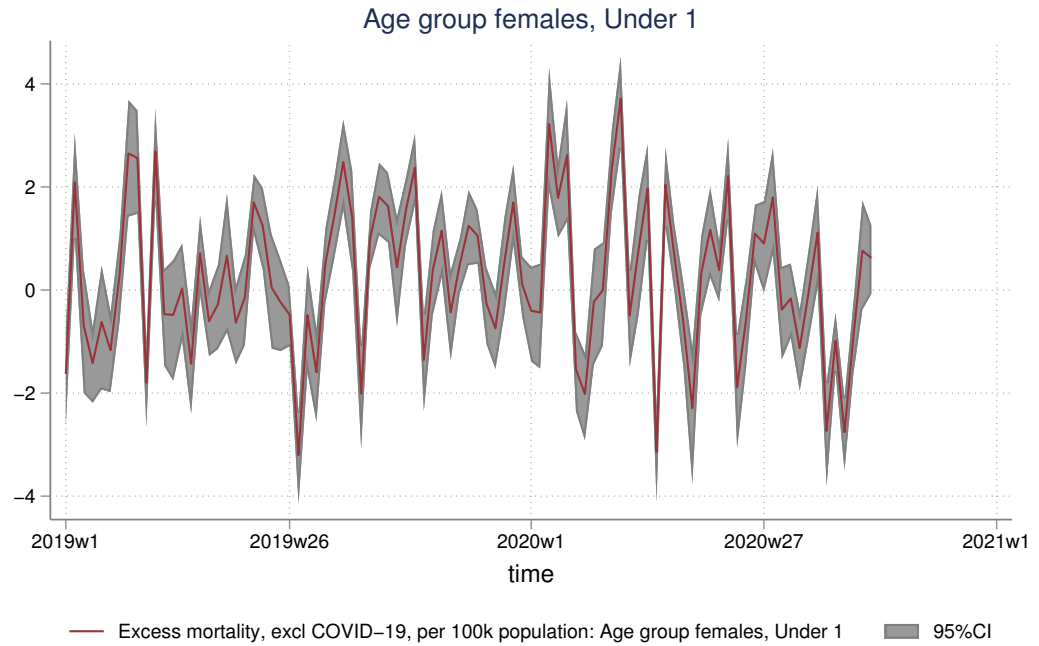
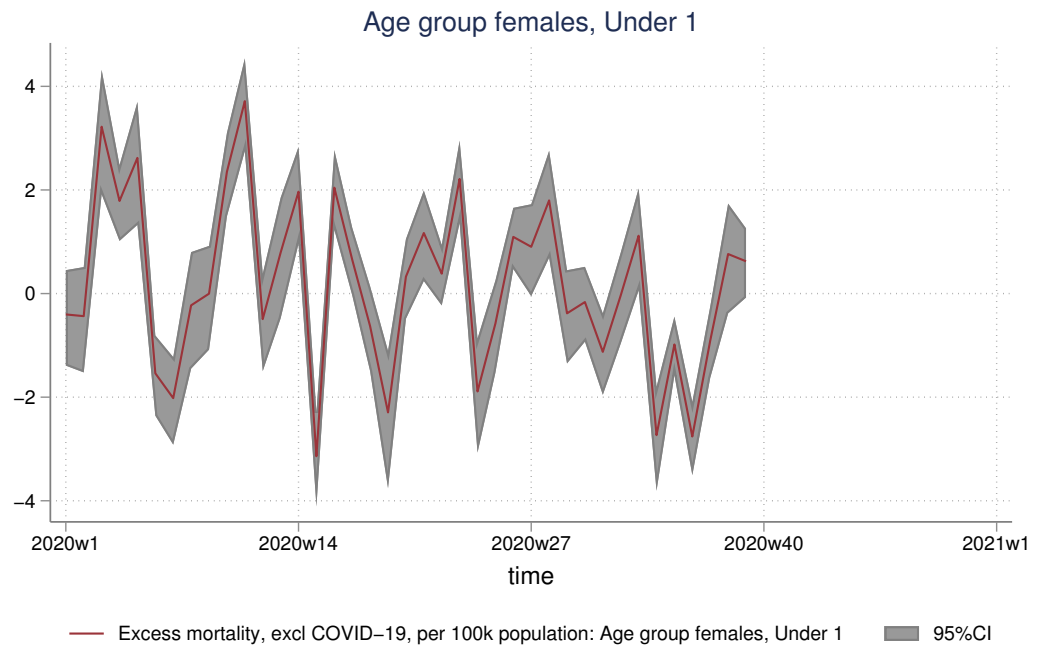


Figure 252: Females < 1 all-cause excess deaths minus COVID19, fm 2020 wk1



5.3 Females aged 01-14

Figure 253: Females 01-14 mortality time trend and model, fm 2010 wk1

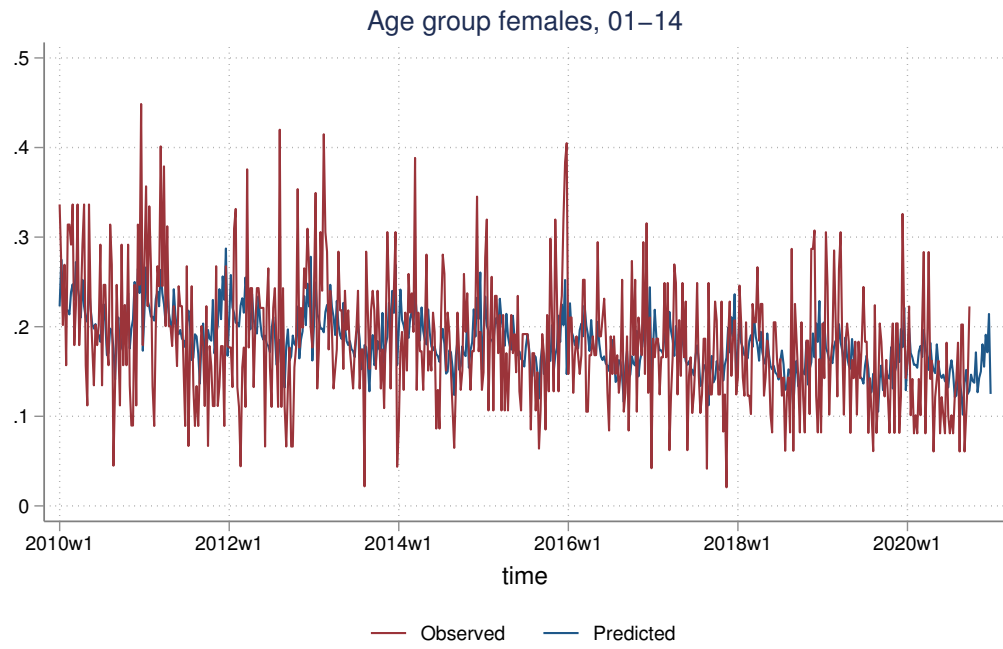


Figure 254: Females 01-14 mortality time trend and model, fm 2019 wk1

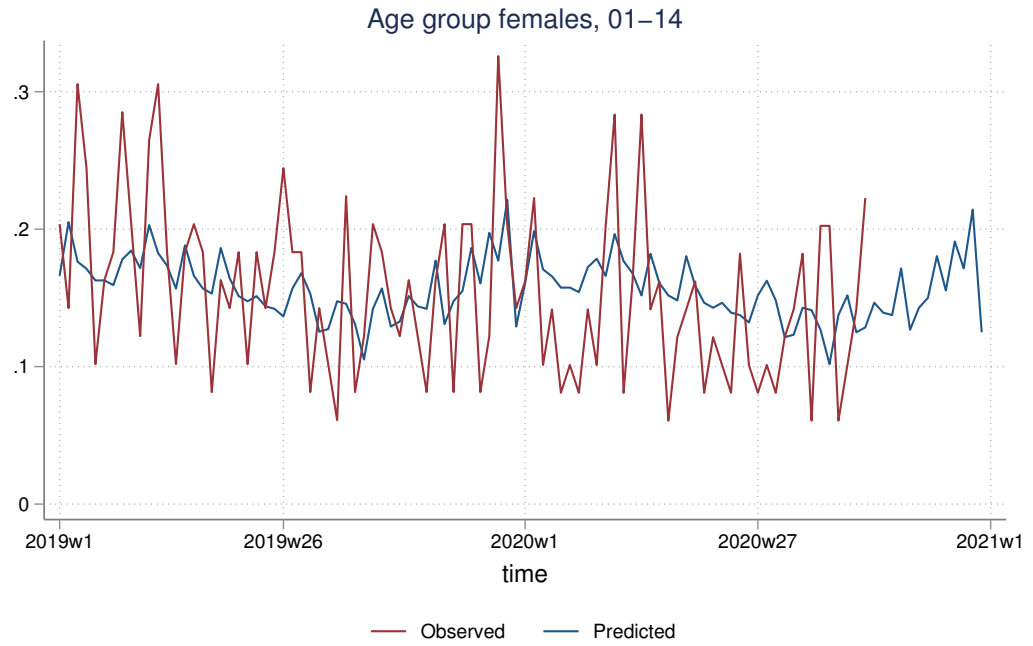


Figure 255: Females 01-14 mortality time trend and model, fm 2020 wk1

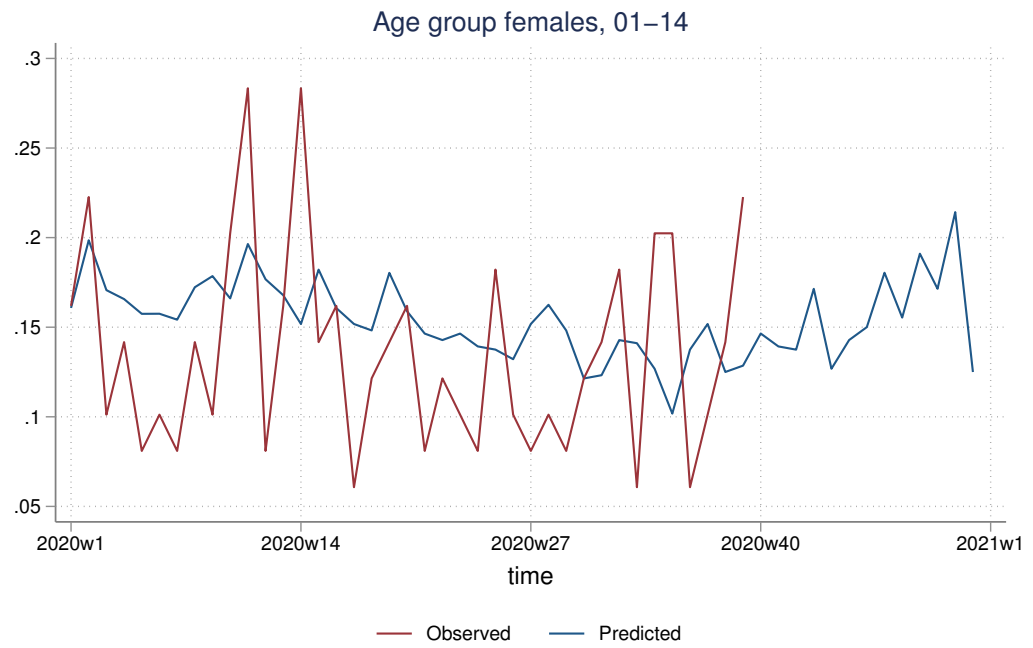


Figure 256: Females 01-14 all-cause excess deaths, fm 2010 wk1

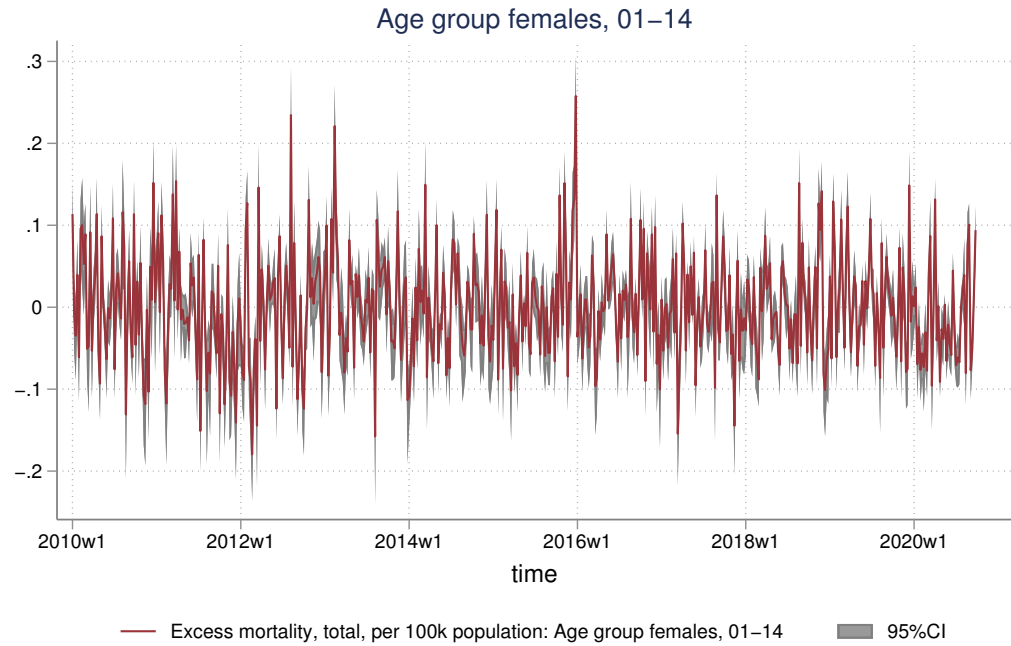


Figure 257: Females 01-14 all-cause excess deaths, fm 2019 wk1

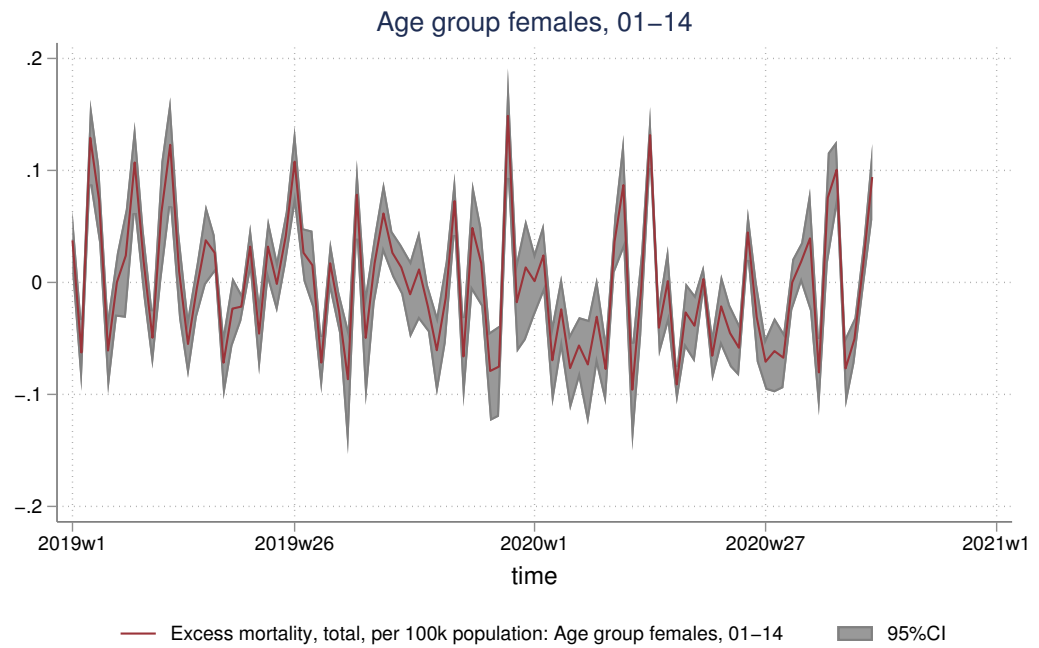


Figure 258: Females 01-14 all-cause excess deaths, fm 2020 wk1

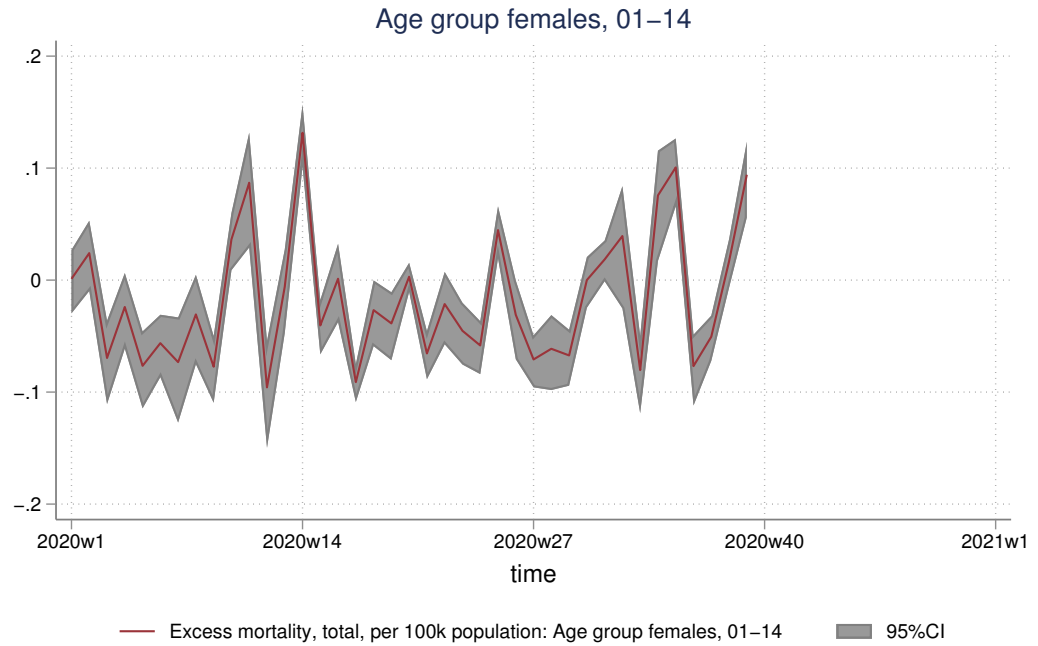


Figure 259: Females 01-14 all-cause excess deaths (-COVID19), fm 2010 wk1

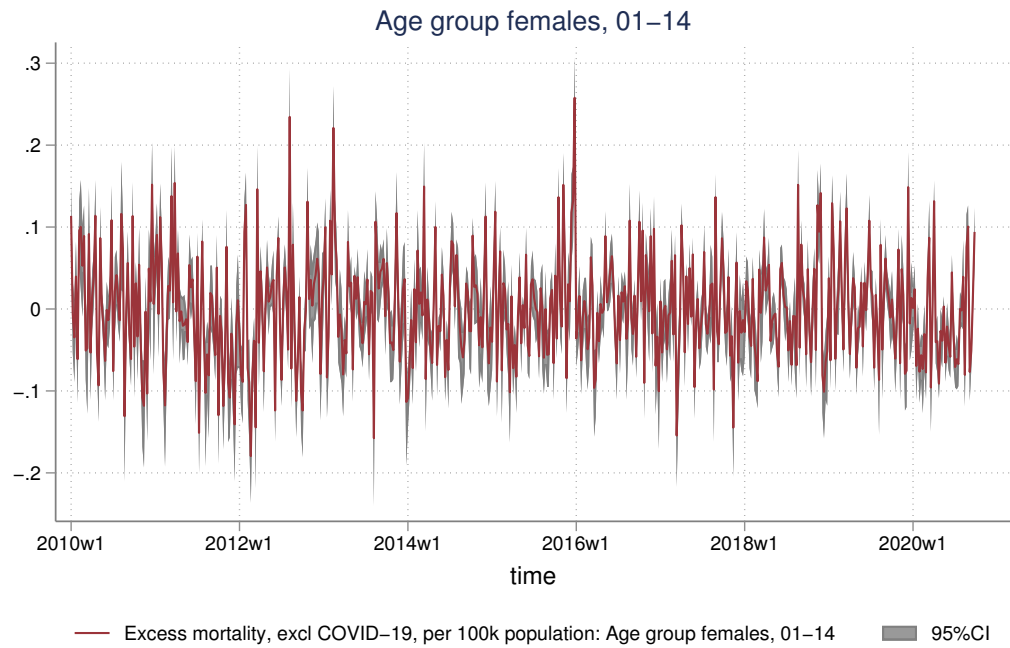


Figure 260: Females 01-14 all-cause excess deaths (-COVID19), fm 2019 wk1

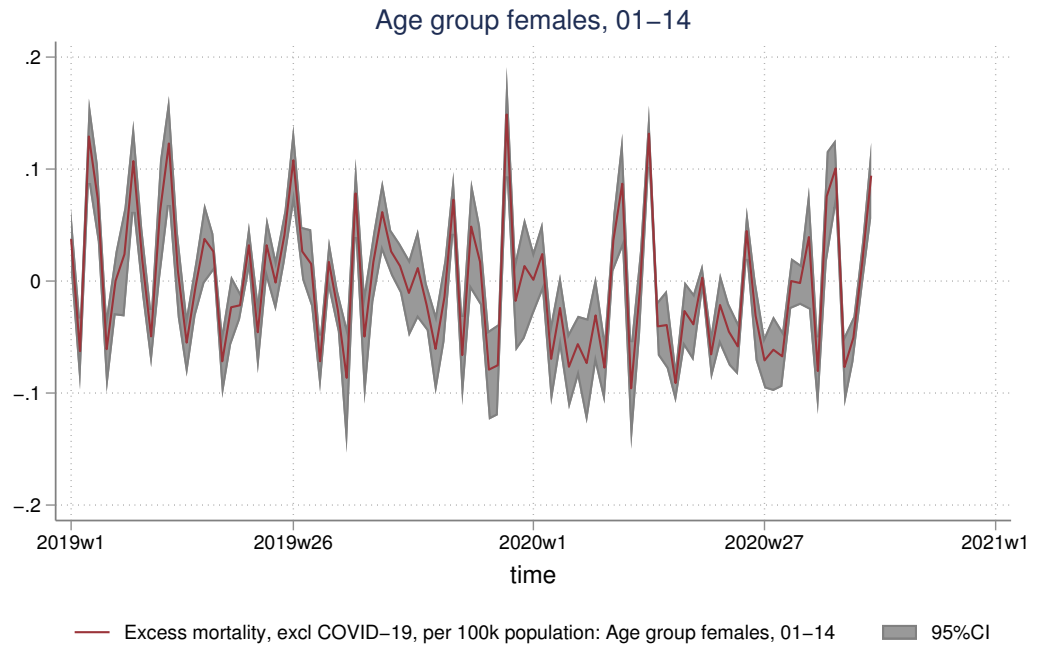
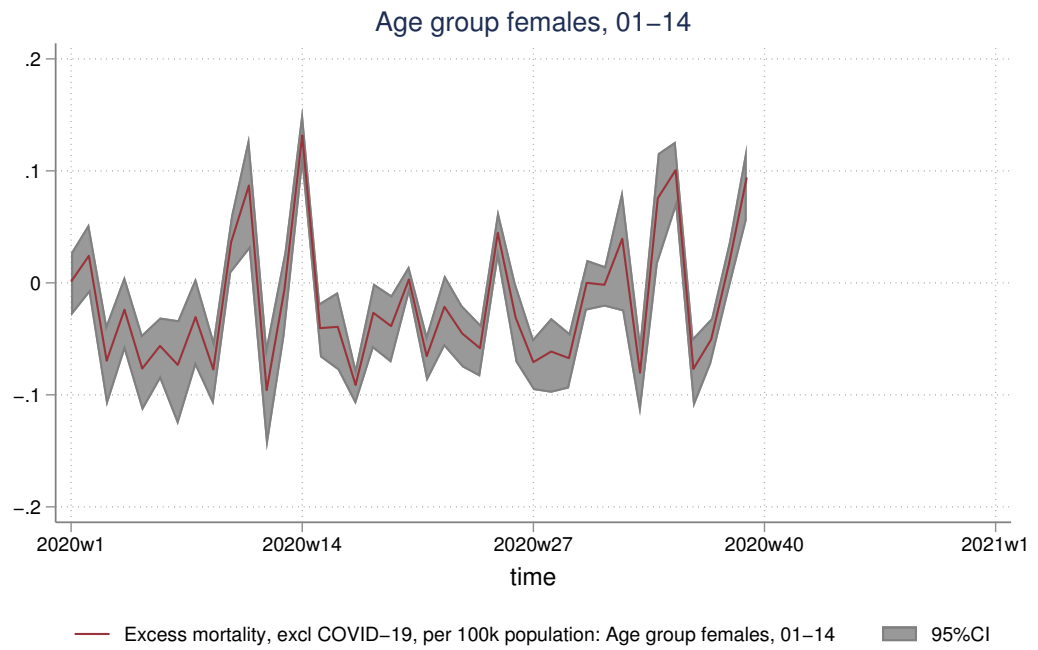


Figure 261: Females 01-14 all-cause excess deaths (-COVID19), fm 2020 wk1



5.4 Females aged 15-44

Figure 262: Females 15-44 mortality time trend and model, fm 2010 wk1

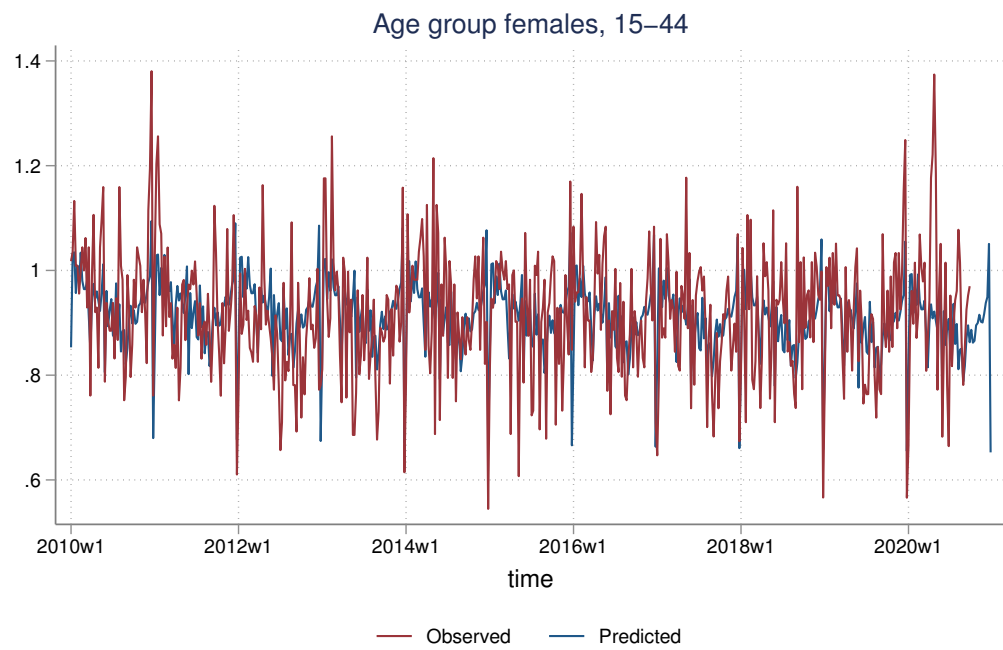


Figure 263: Females 15-44 mortality time trend and model, fm 2019 wk1

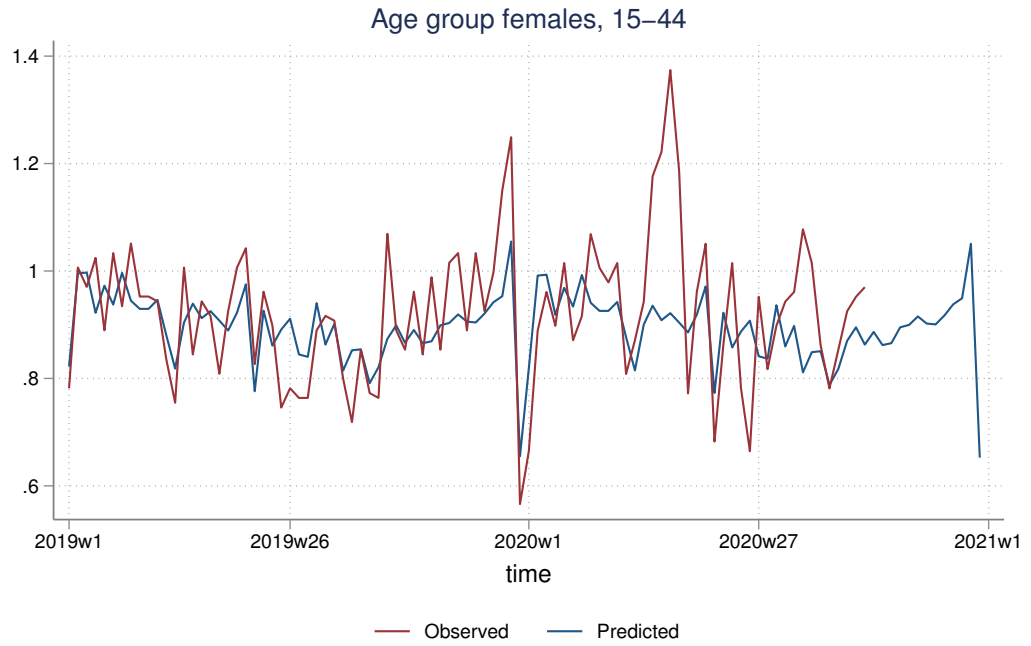


Figure 264: Females 15-44 mortality time trend and model, fm 2020 wk1

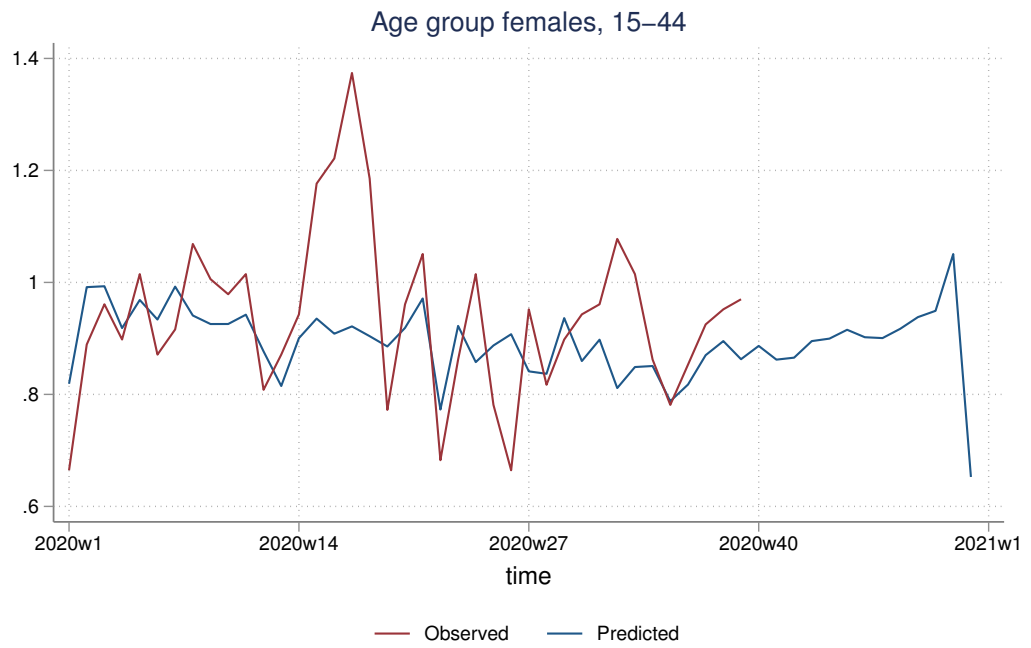


Figure 265: Females 15-44 all-cause excess deaths, fm 2010 wk1

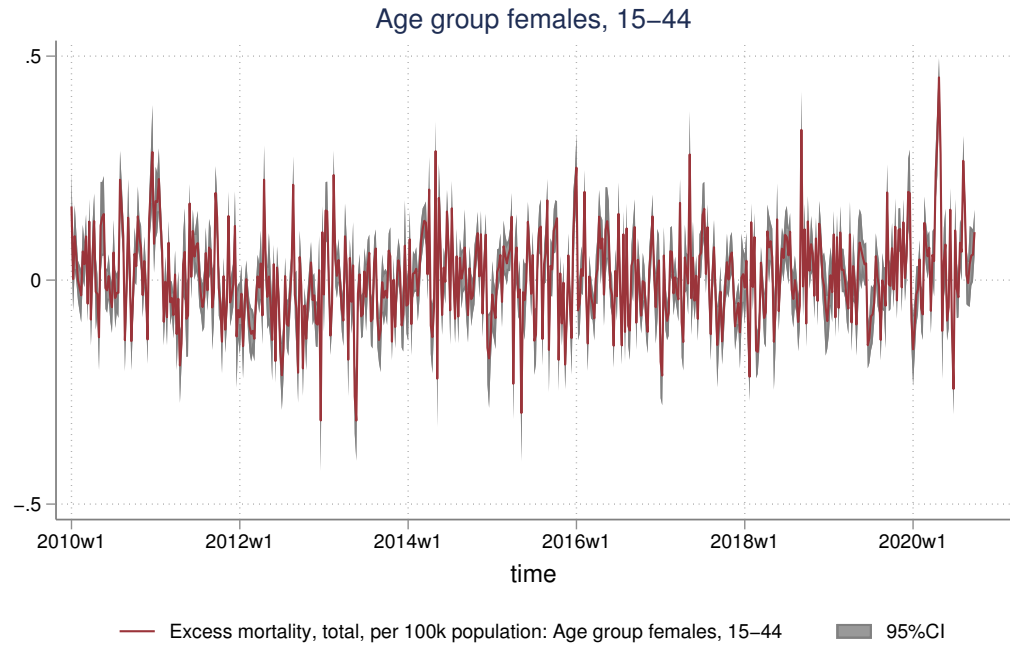


Figure 266: Females 15-44 all-cause excess deaths, fm 2019 wk1

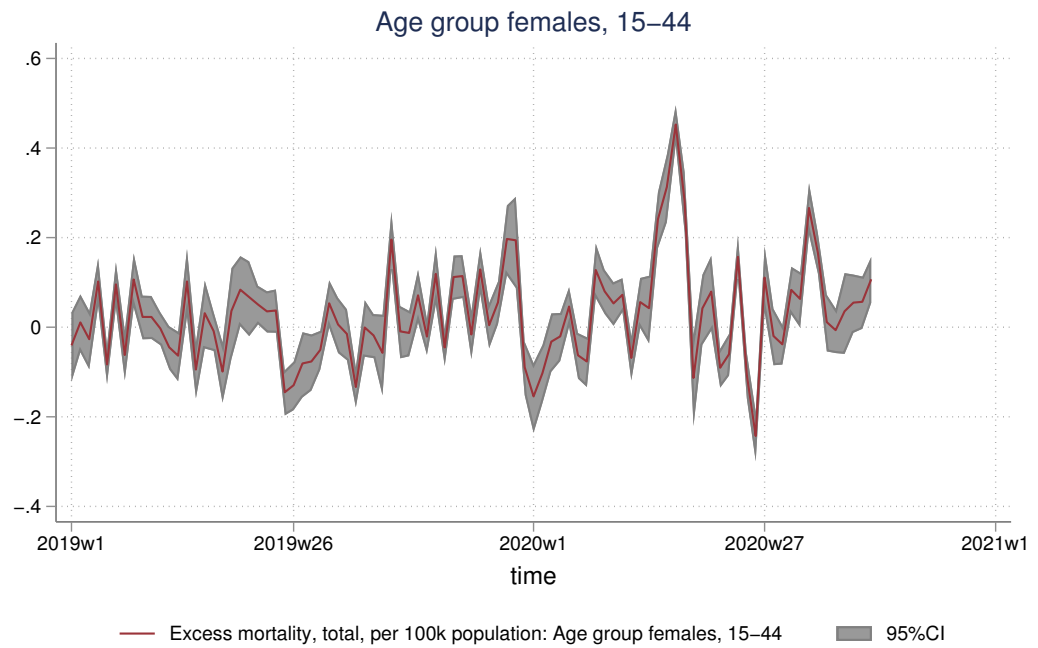


Figure 267: Females 15-44 all-cause excess deaths, fm 2020 wk1



Figure 268: Females 15-44 all-cause excess deaths (-COVID19), fm 2010 wk1

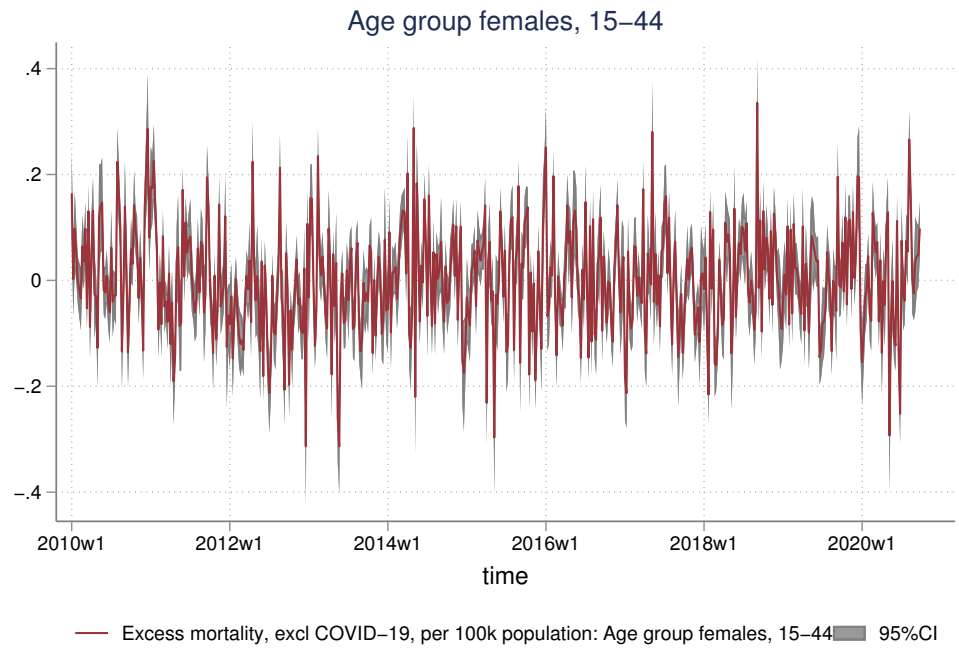


Figure 269: Females 15-44 all-cause excess deaths (-COVID19), fm 2019 wk1

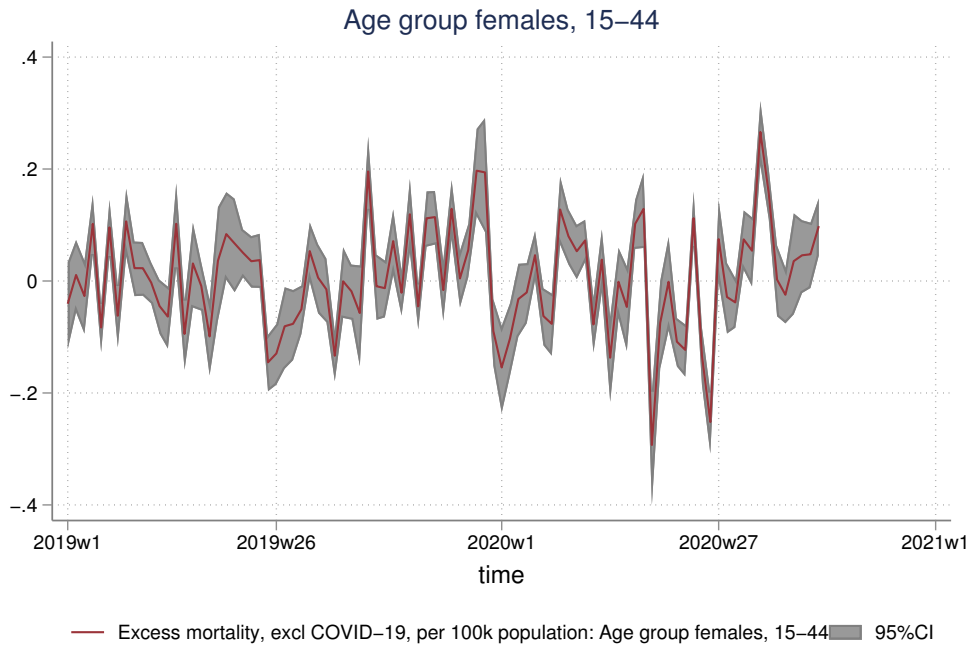
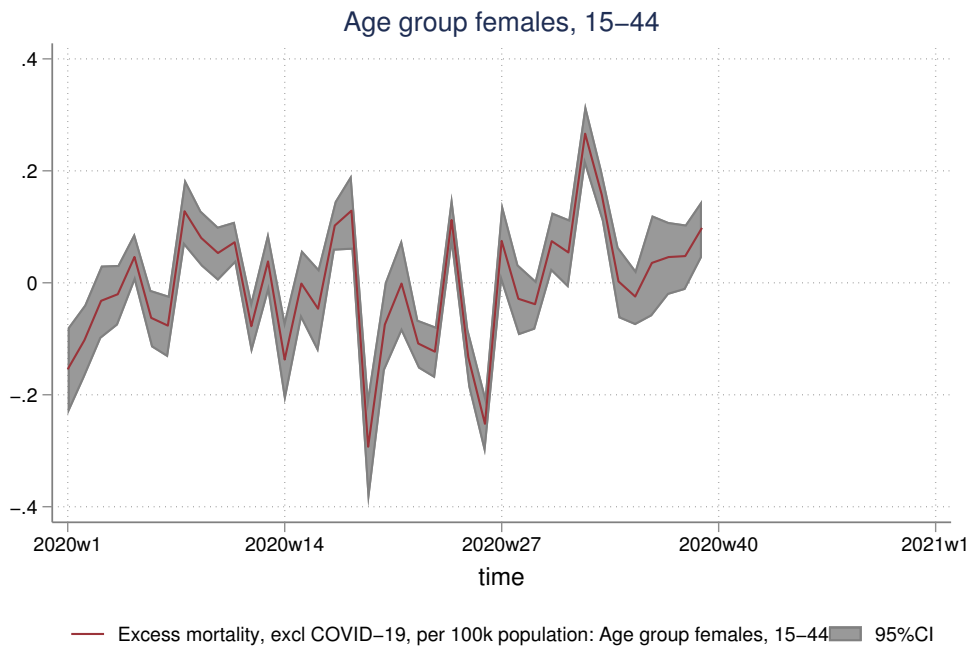


Figure 270: Females 15-44 all-cause excess deaths (-COVID19), fm 2020 wk1



5.5 Females aged 45-64

Figure 271: Females 45-64 mortality time trend and model, fm 2010 wk1

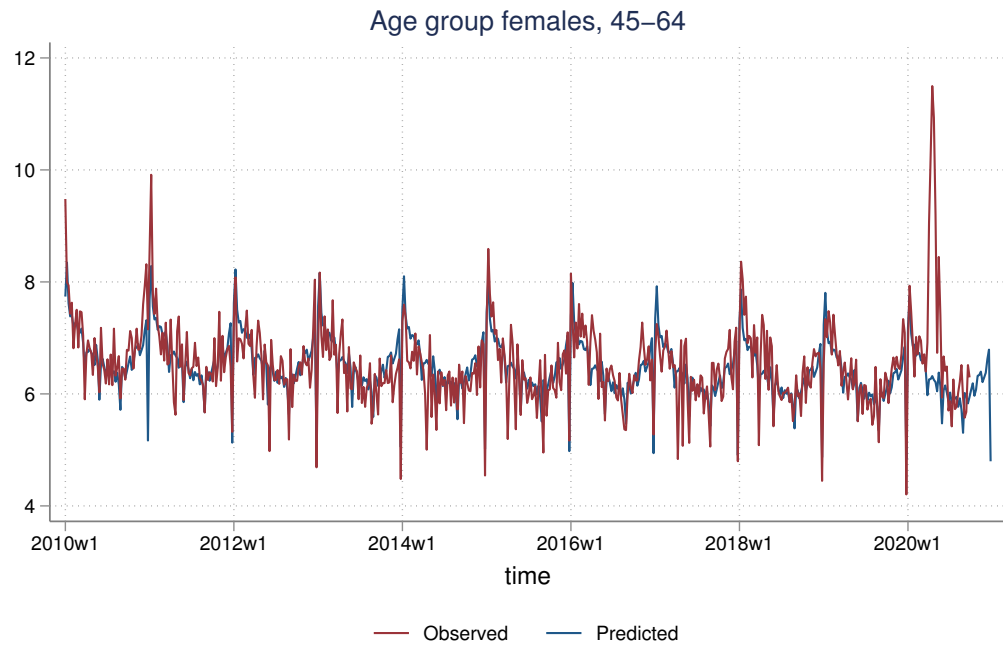


Figure 272: Females 45-64 mortality time trend and model, fm 2019 wk1

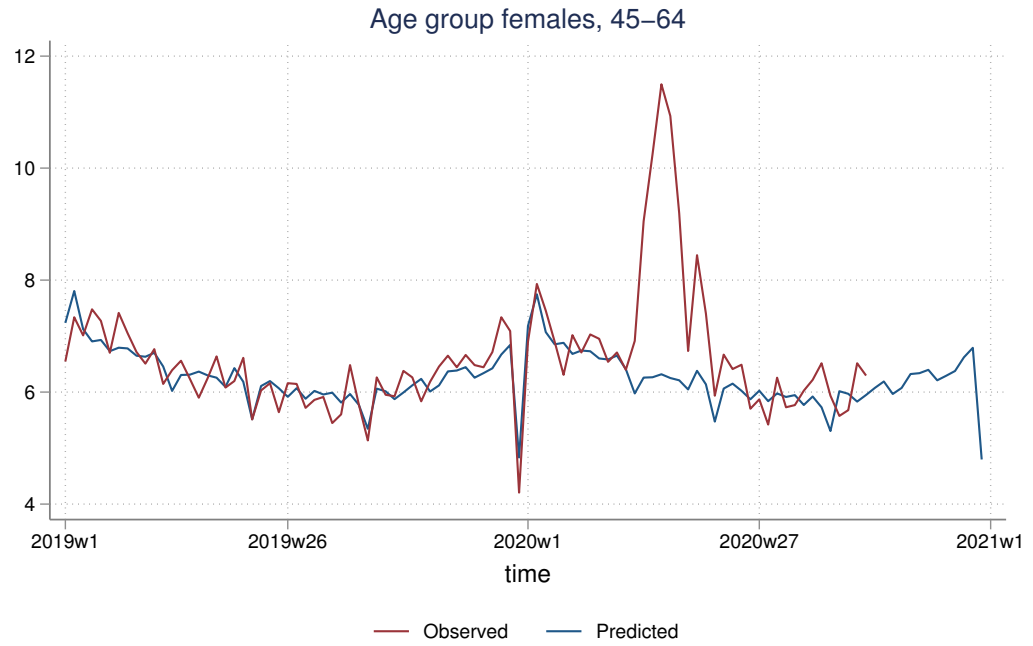


Figure 273: Females 45-64 mortality time trend and model, fm 2020 wk1

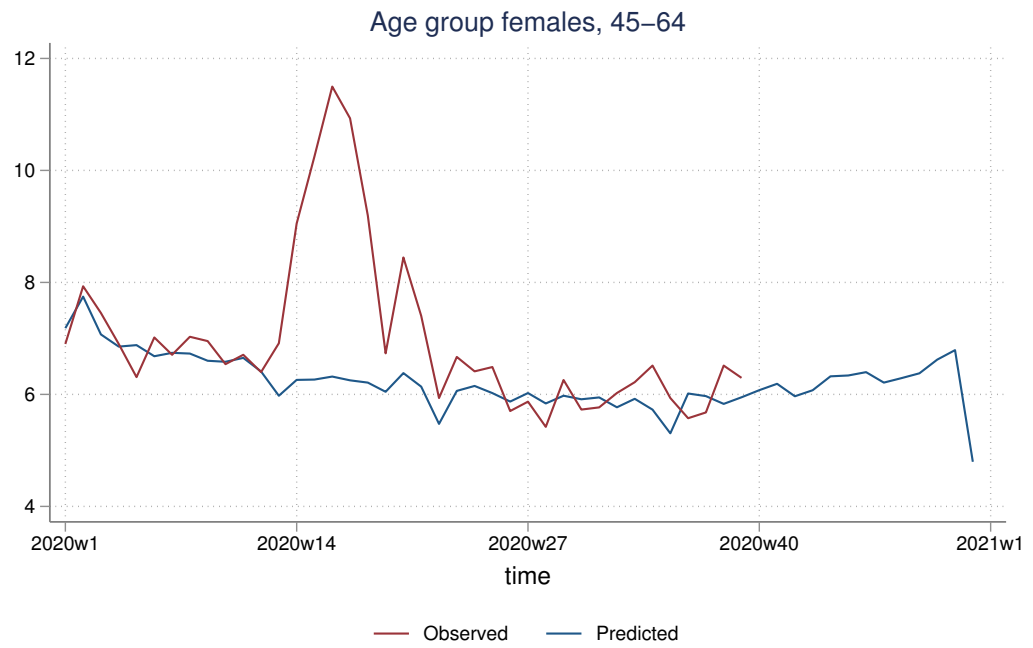


Figure 274: Females 45-64 all-cause excess deaths, fm 2010 wk1

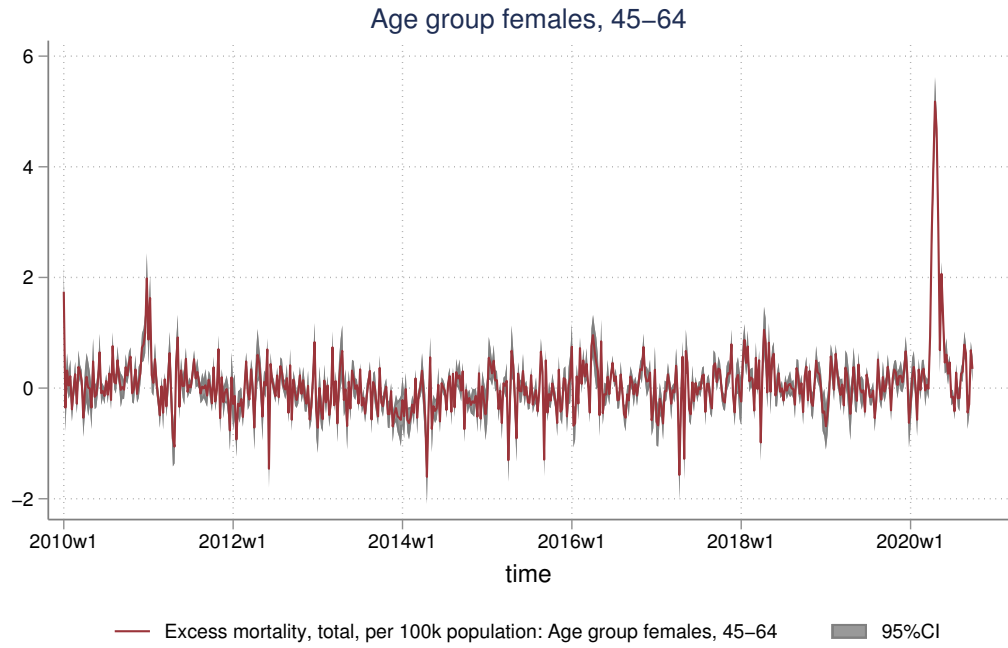


Figure 275: Females 45-64 all-cause excess deaths, fm 2019 wk1

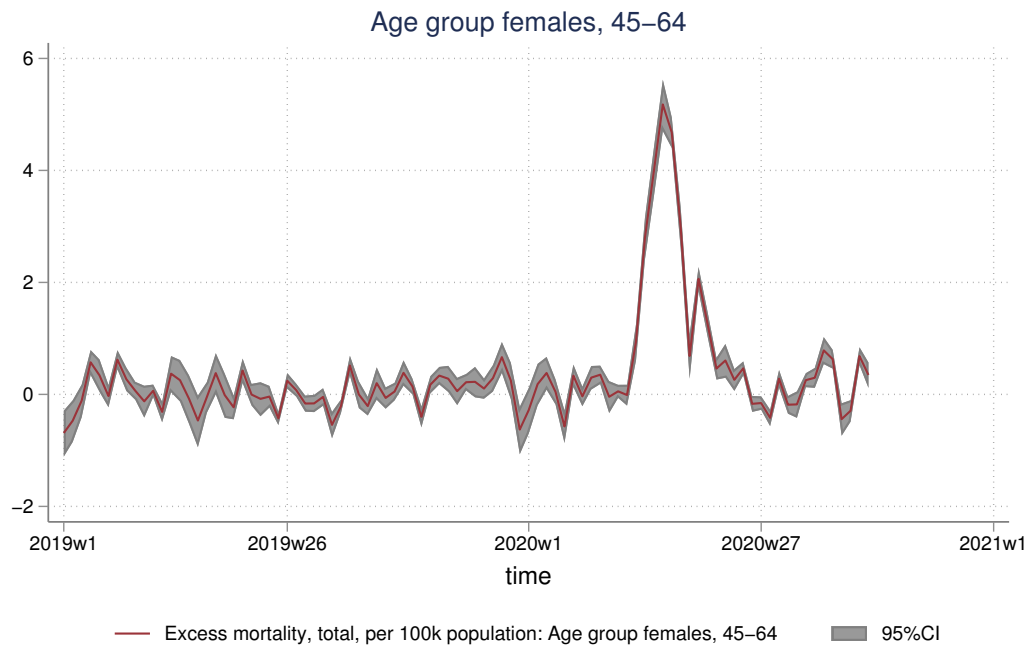


Figure 276: Females 45-64 all-cause excess deaths, fm 2020 wk1

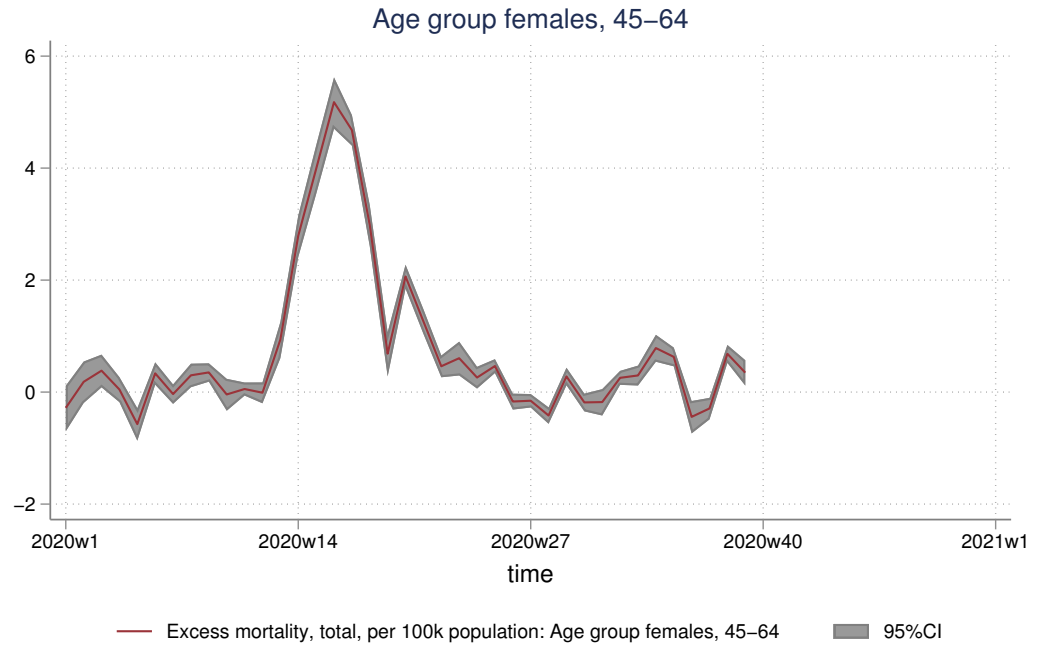


Figure 277: Females 45-64 all-cause excess deaths (-COVID19), fm 2010 wk1



Figure 278: Females 45-64 all-cause excess deaths (-COVID19), fm 2019 wk1

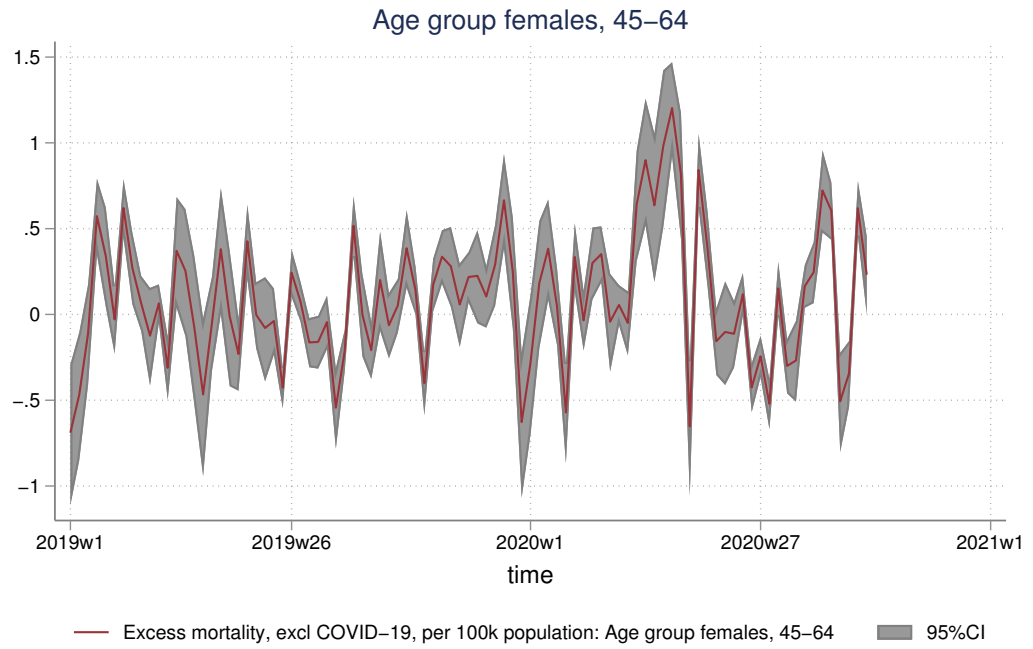
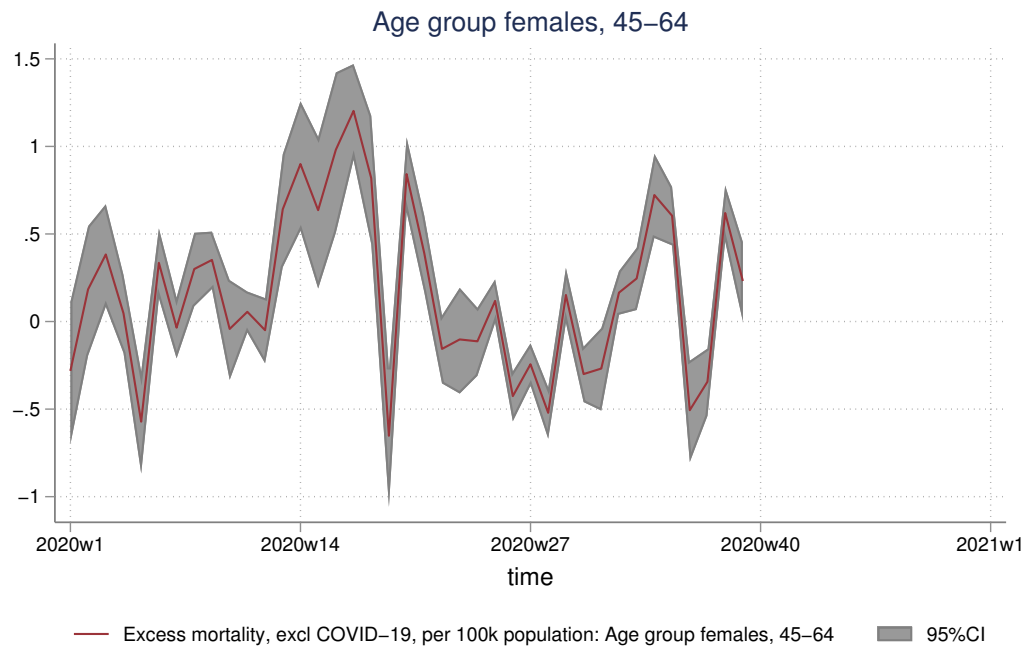


Figure 279: Females 45-64 all-cause excess deaths (-COVID19), fm 2020 wk1



5.6 Females aged 65-74

Figure 280: Females 65-74 mortality time trend and model, fm 2010 wk1

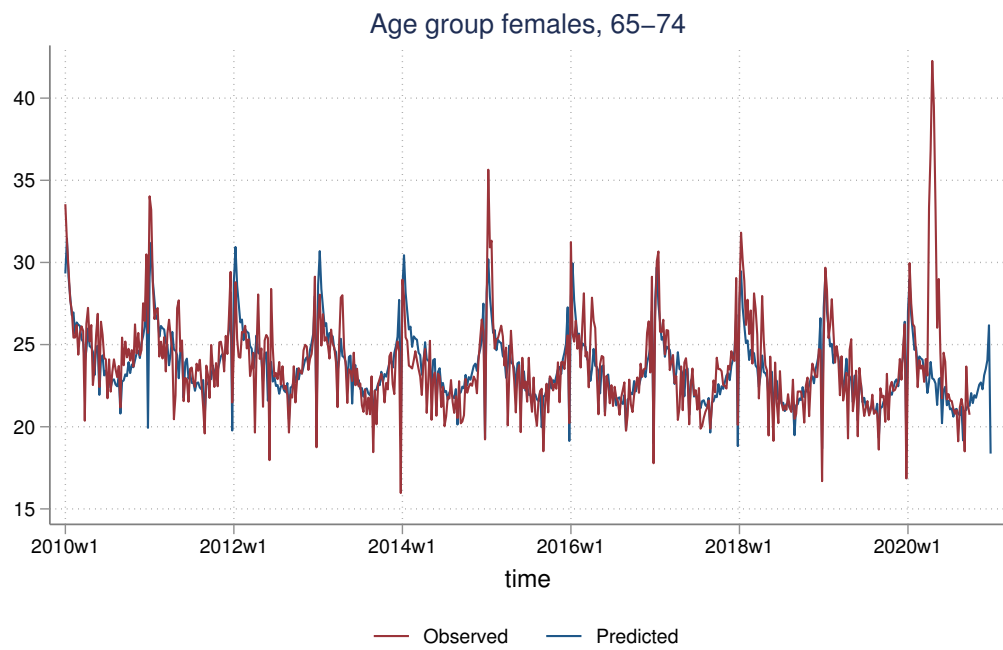


Figure 281: Females 65-74 mortality time trend and model, fm 2019 wk1

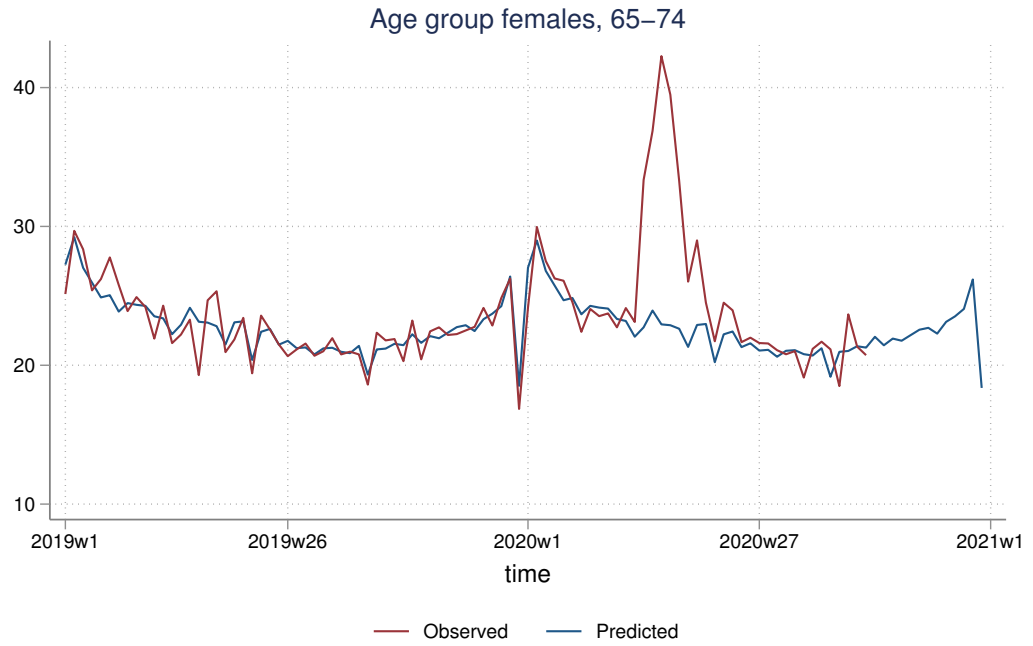


Figure 282: Females 65-74 mortality time trend and model, fm 2020 wk1

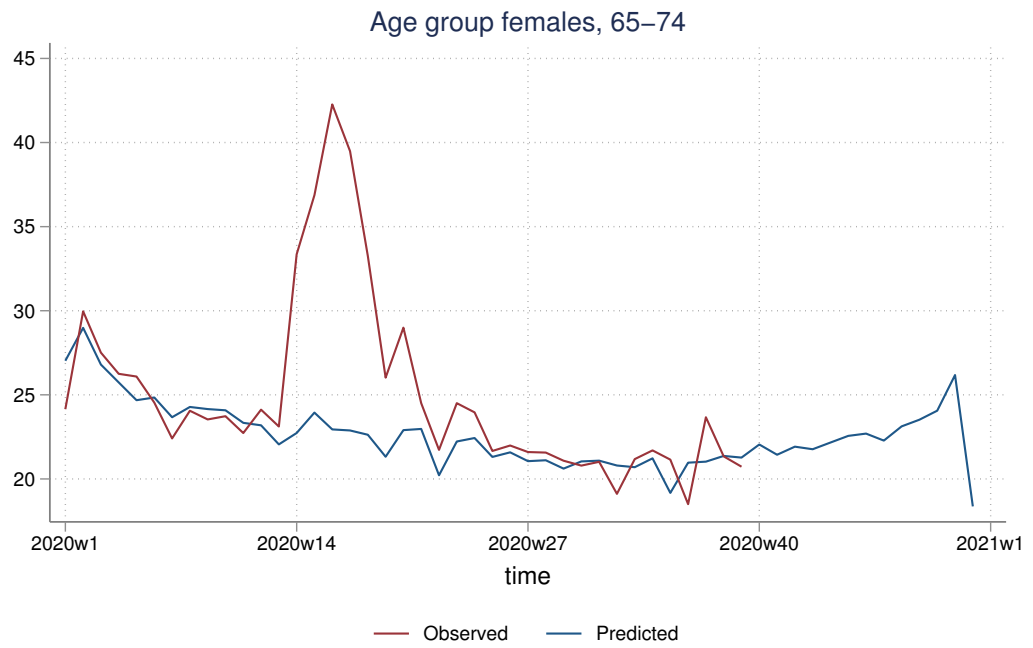


Figure 283: Females 65-74 all-cause excess deaths, fm 2010 wk1

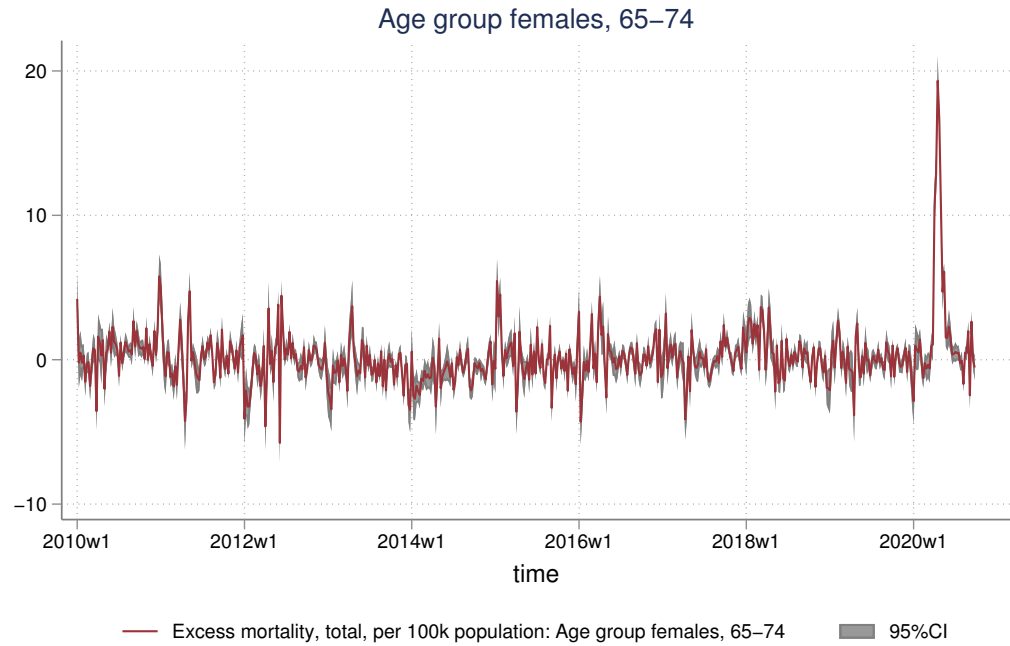


Figure 284: Females 65-74 all-cause excess deaths, fm 2019 wk1

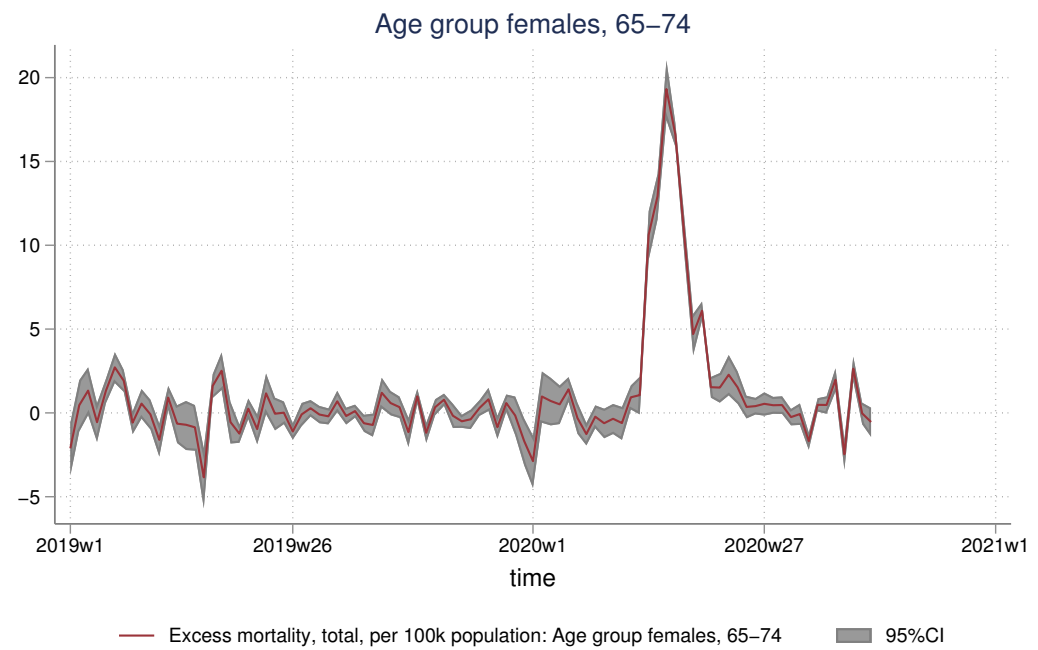


Figure 285: Females 65-74 all-cause excess deaths, fm 2020 wk1

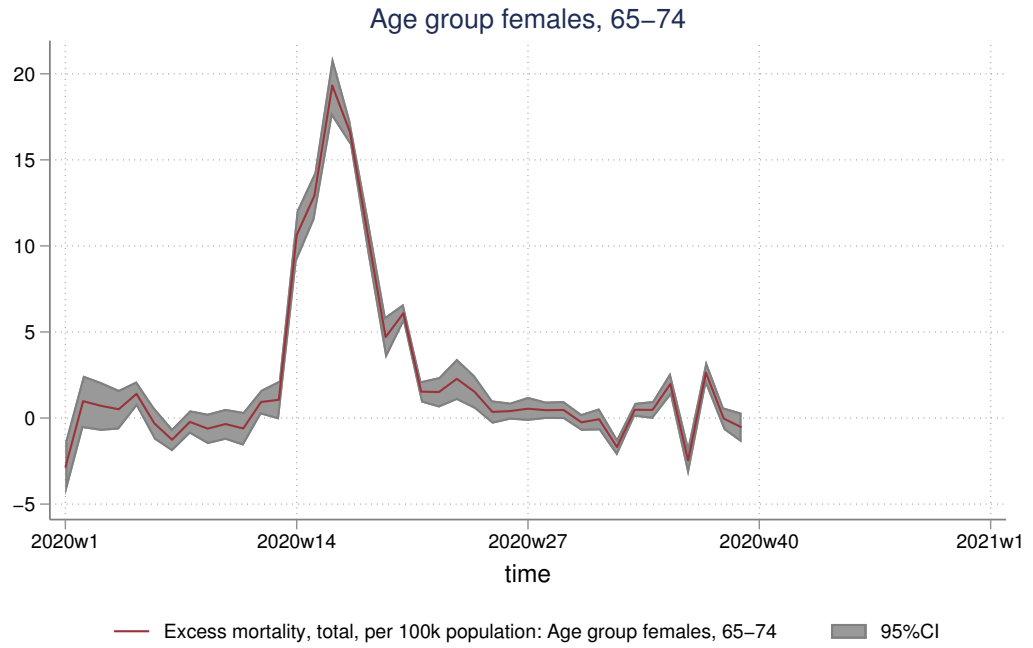


Figure 286: Females 65-74 all-cause excess deaths (-COVID19), fm 2010 wk1

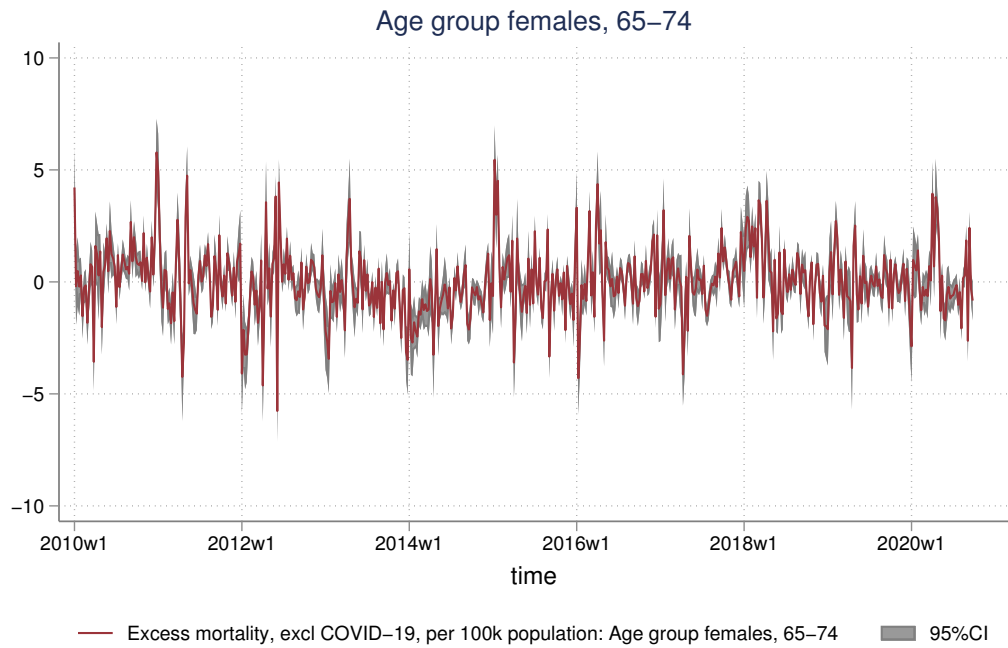


Figure 287: Females 65-74 all-cause excess deaths (-COVID19), fm 2019 wk1

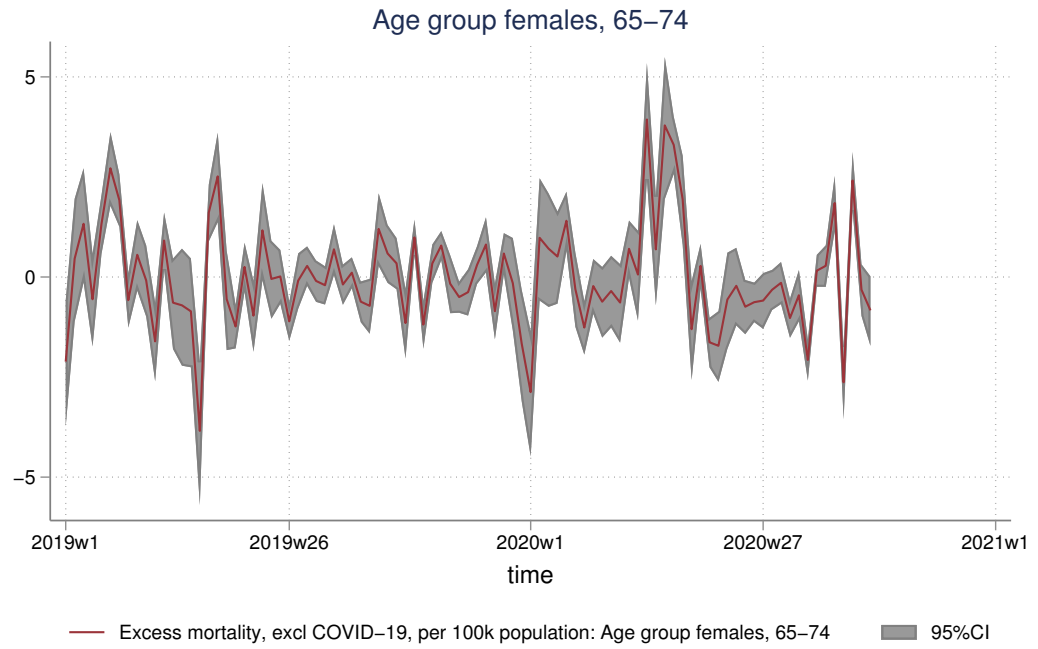
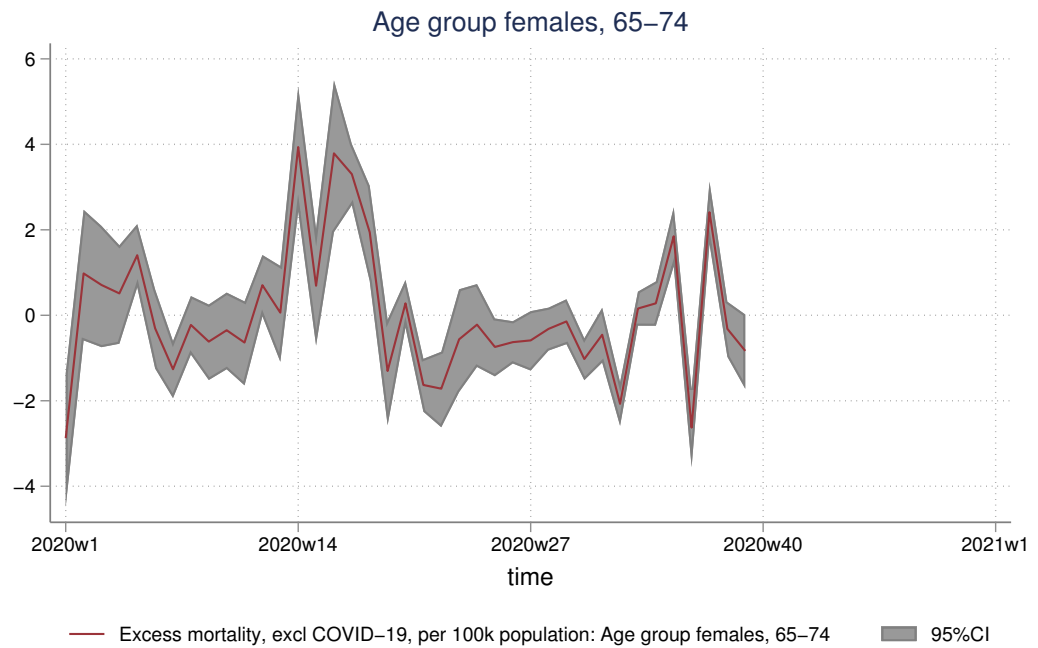


Figure 288: Females 65-74 all-cause excess deaths (-COVID19), fm 2020 wk1



5.7 Females aged 75-84

Figure 289: Females 75-84 mortality time trend and model, fm 2010 wk1

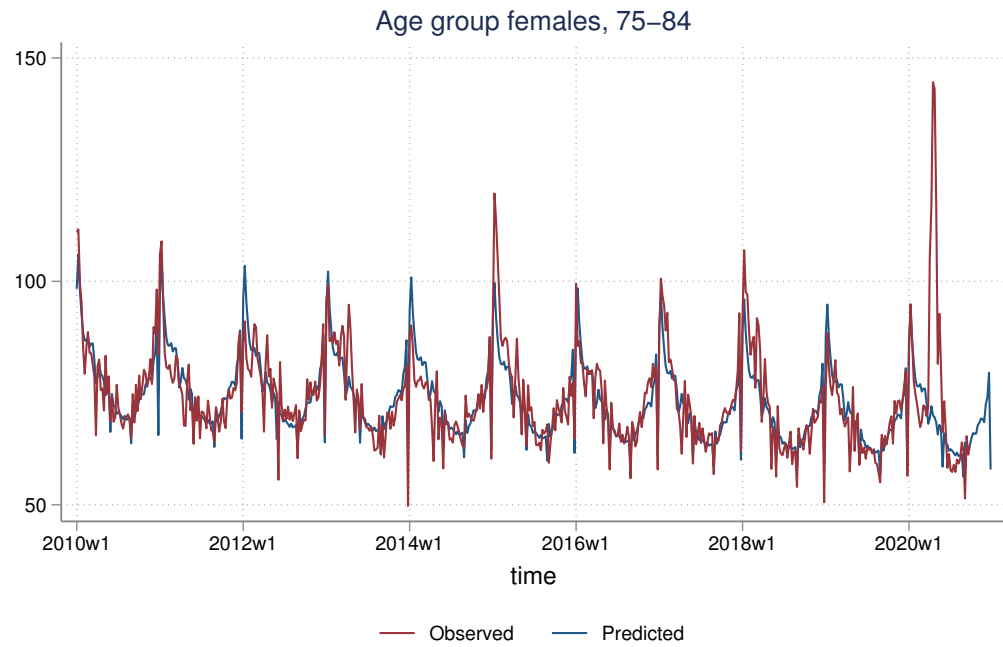


Figure 290: Females 75-84 mortality time trend and model, fm 2019 wk1

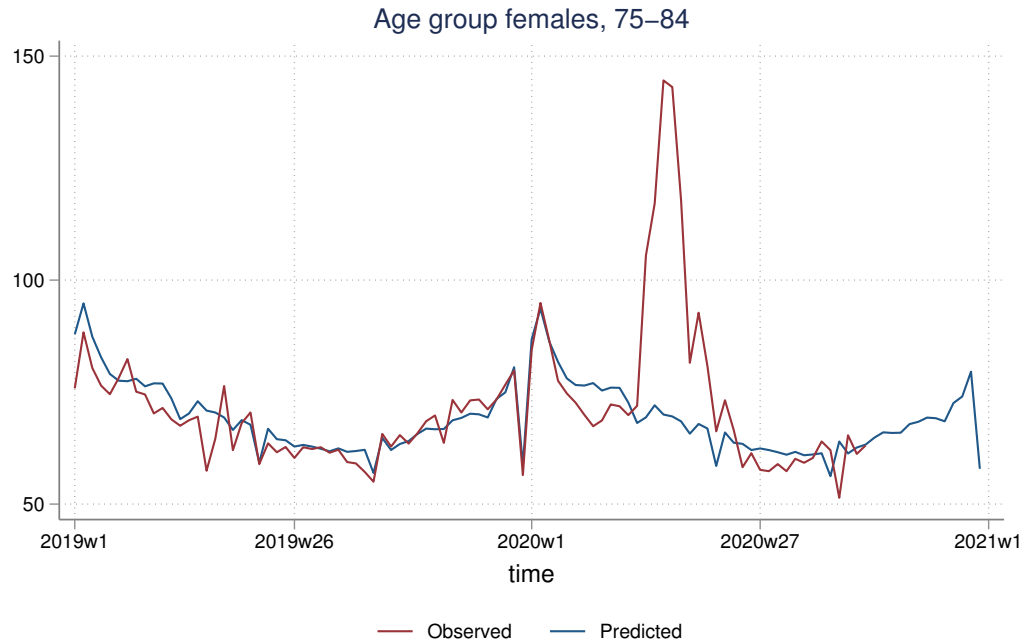


Figure 291: Females 75-84 mortality time trend and model, fm 2020 wk1

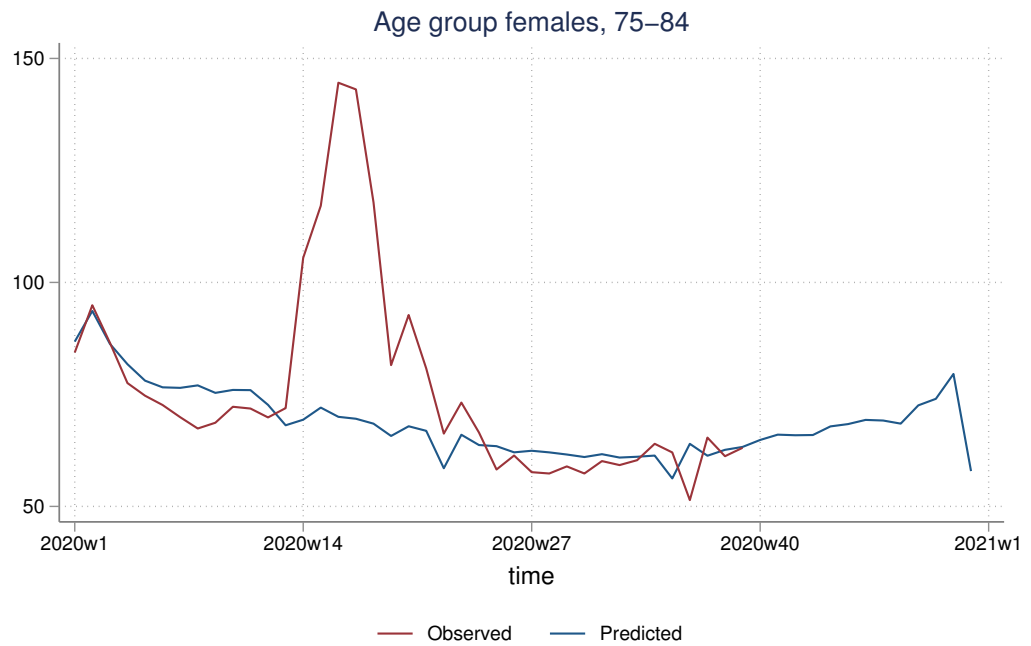


Figure 292: Females 75-84 all-cause excess deaths, fm 2010 wk1

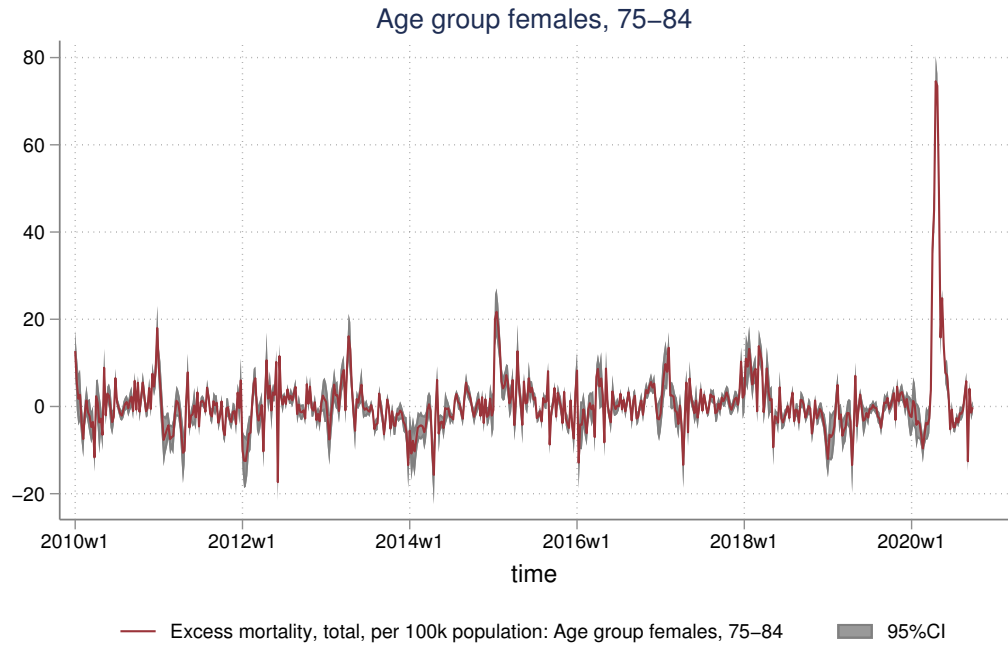


Figure 293: Females 75-84 all-cause excess deaths, fm 2019 wk1

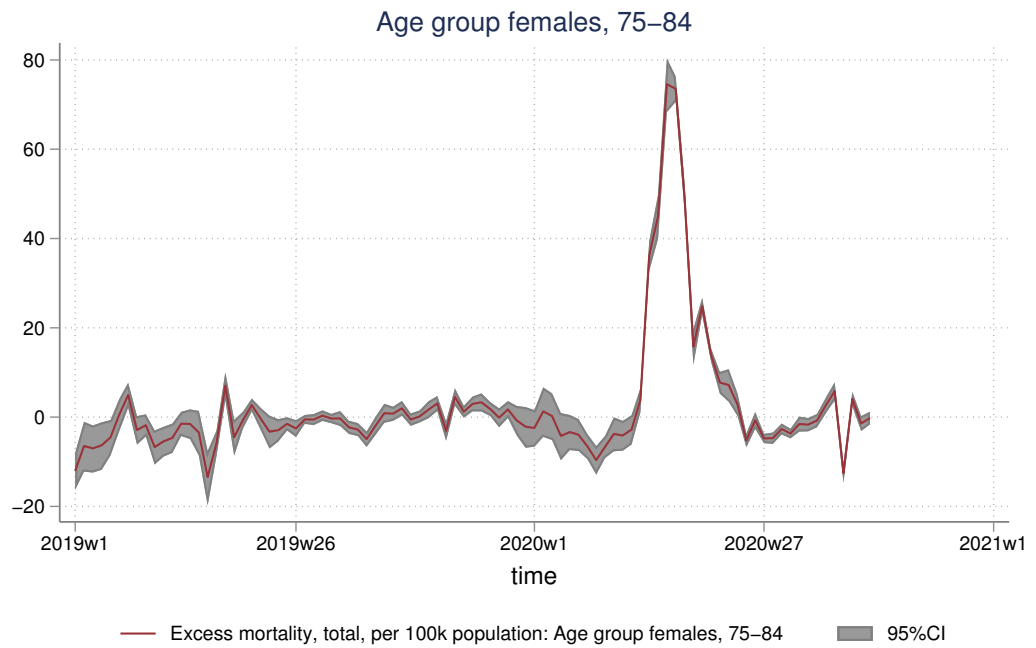


Figure 294: Females 75-84 all-cause excess deaths, fm 2020 wk1

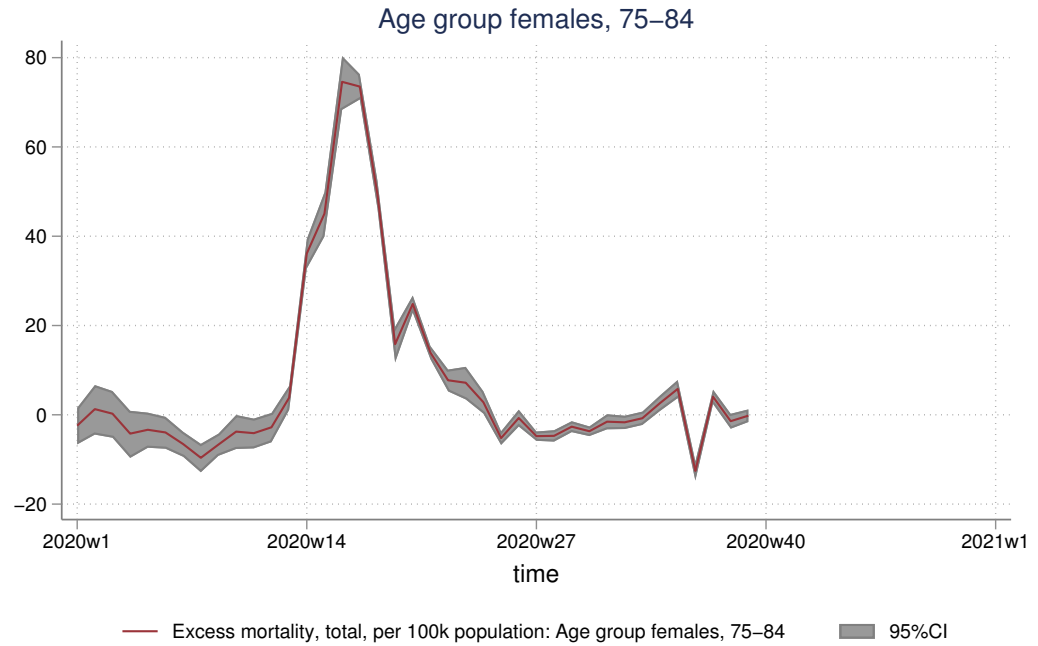


Figure 295: Females 75-84 all-cause excess deaths (-COVID19), fm 2010 wk1

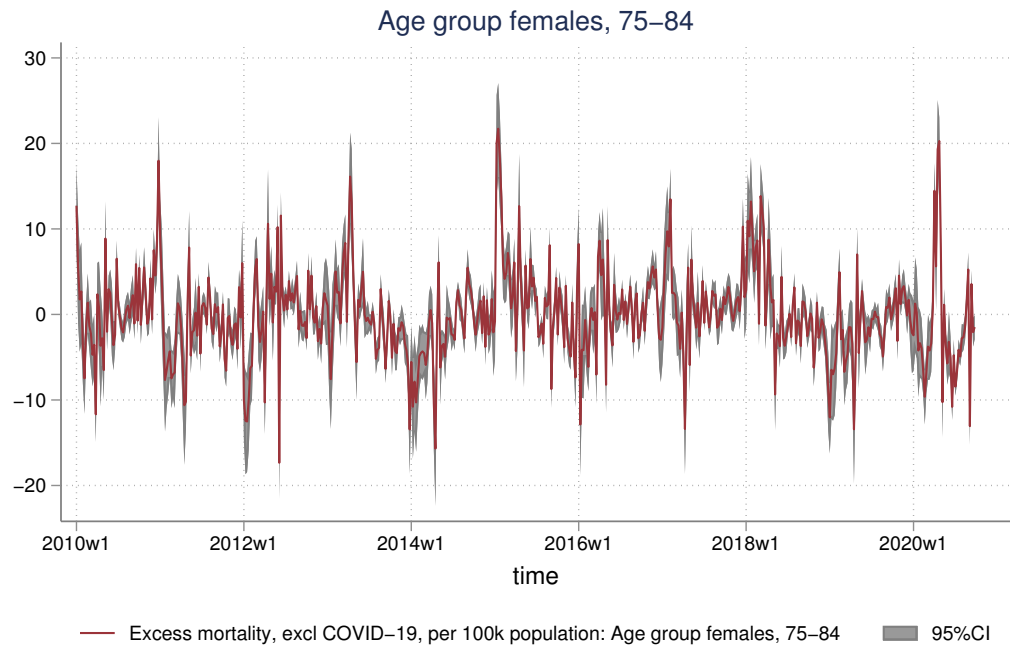


Figure 296: Females 75-84 all-cause excess deaths (-COVID19), fm 2019 wk1

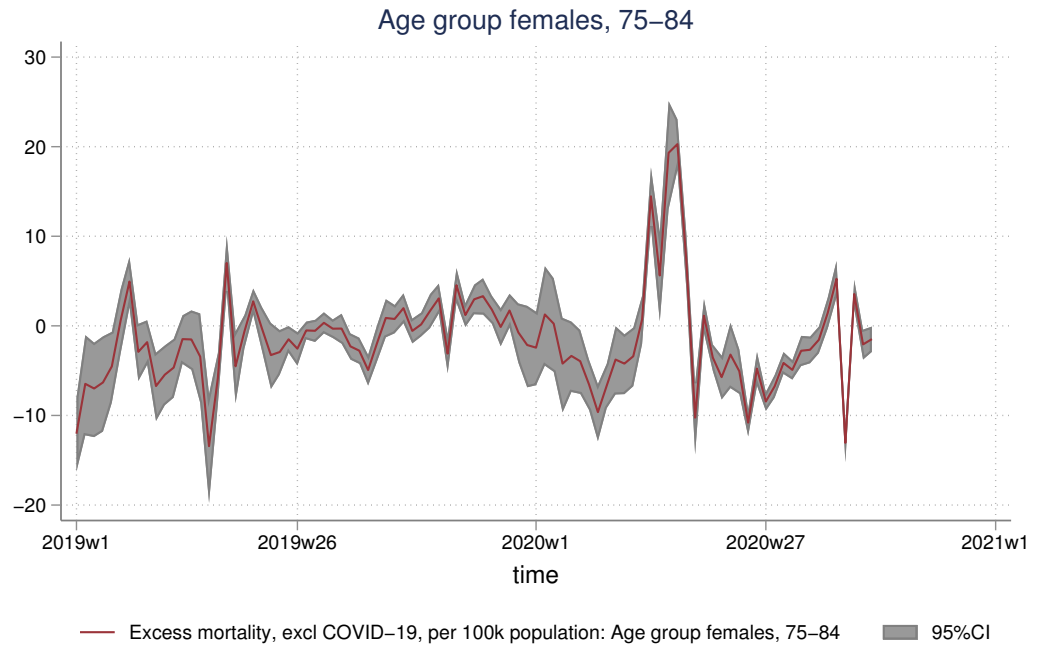
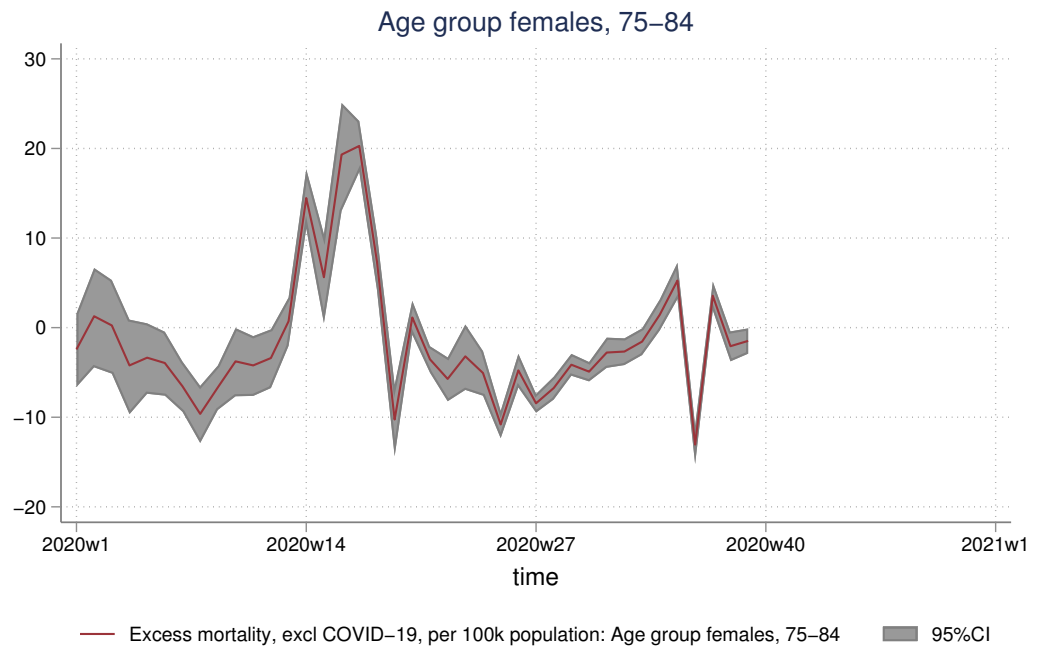


Figure 297: Females 75-84 all-cause excess deaths (-COVID19), fm 2020 wk1



5.8 Females aged 85+

Figure 298: Females 85+ mortality time trend and model, fm 2010 wk1

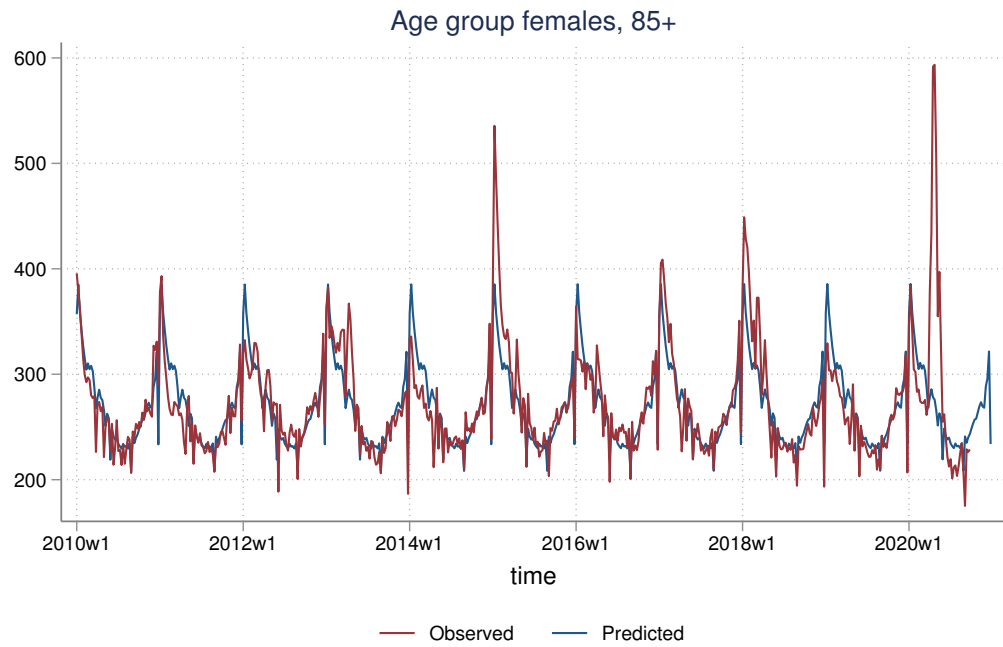


Figure 299: Females 85+ mortality time trend and model, fm 2019 wk1

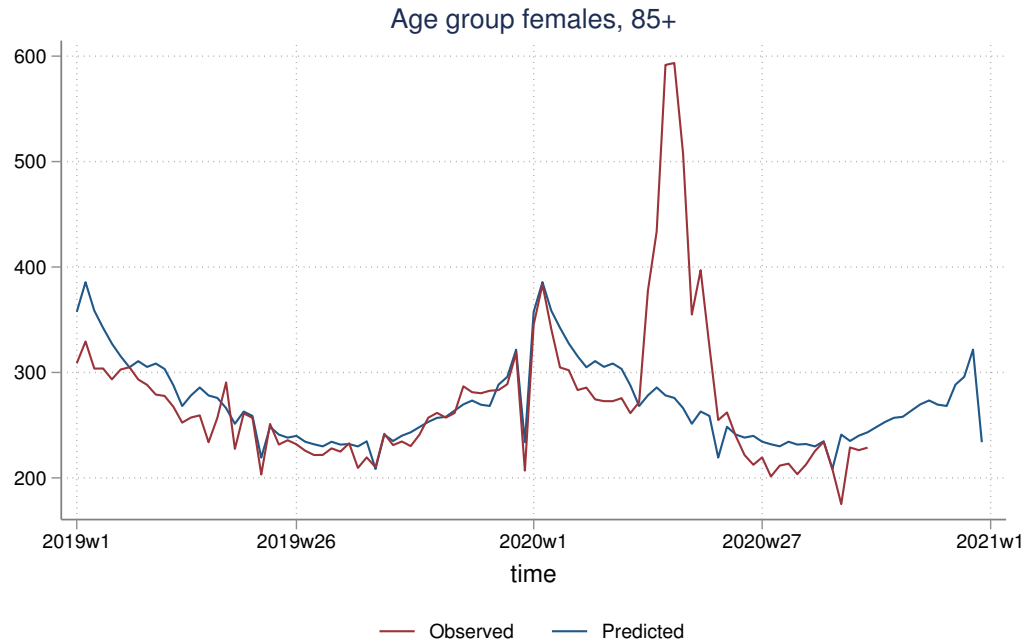


Figure 300: Females 85+ mortality time trend and model, fm 2020 wk1

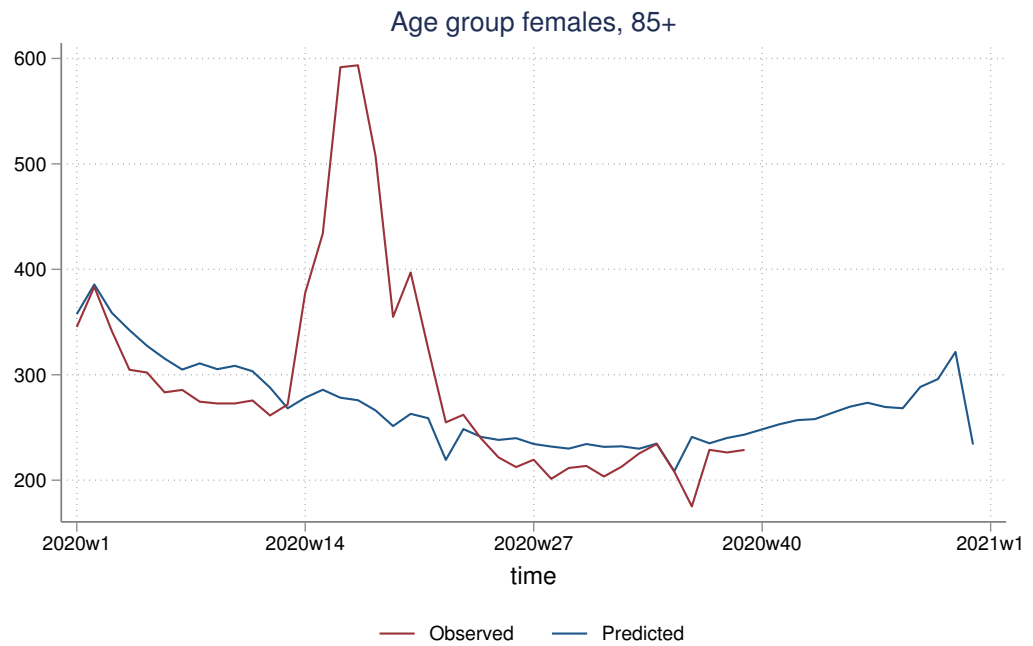


Figure 301: Females 85+ all-cause excess deaths, fm 2010 wk1

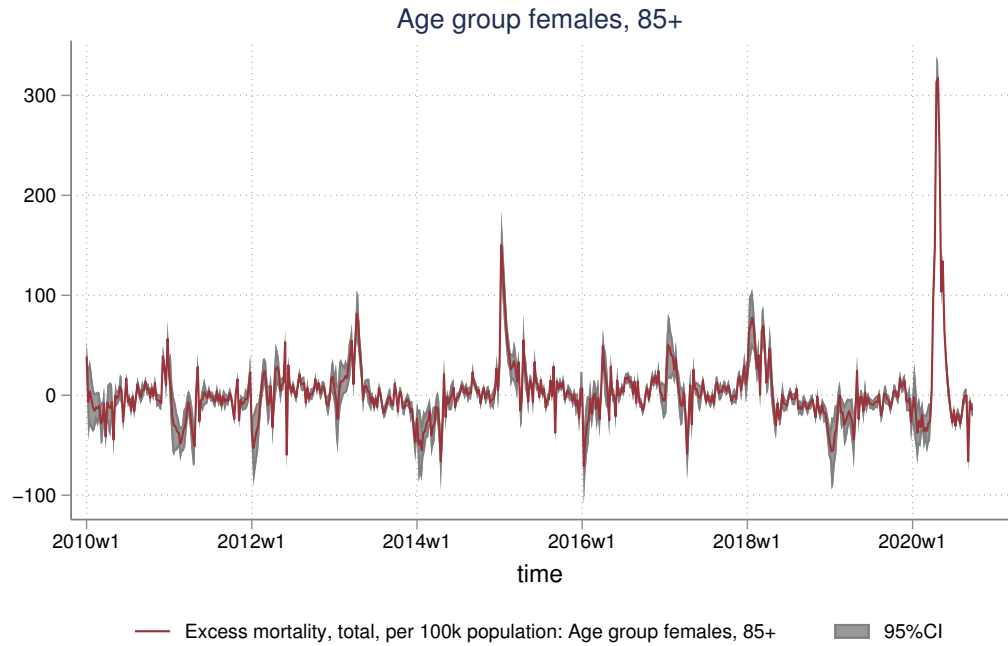


Figure 302: Females 85+ all-cause excess deaths, fm 2019 wk1

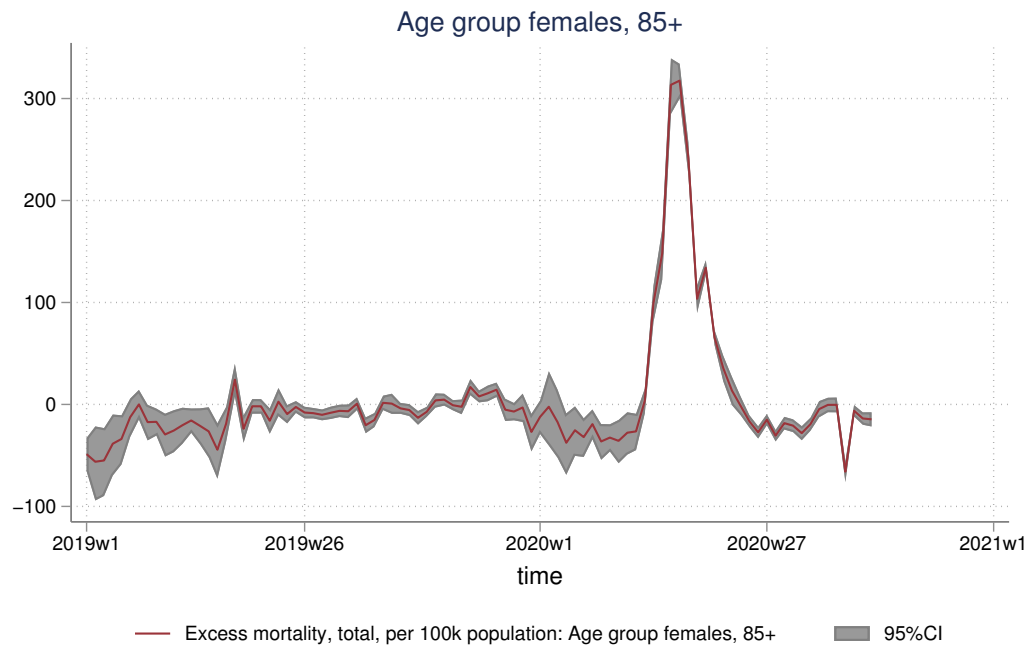


Figure 303: Females 85+ all-cause excess deaths, fm 2020 wk1

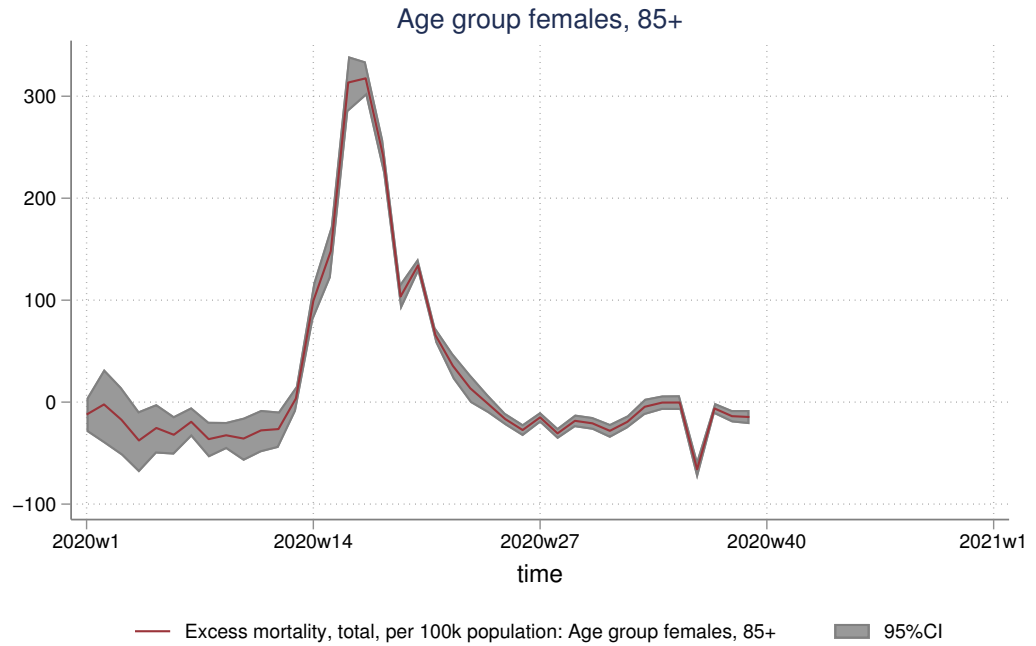


Figure 304: Females 85+ all-cause excess deaths (-COVID19), fm 2010 wk1

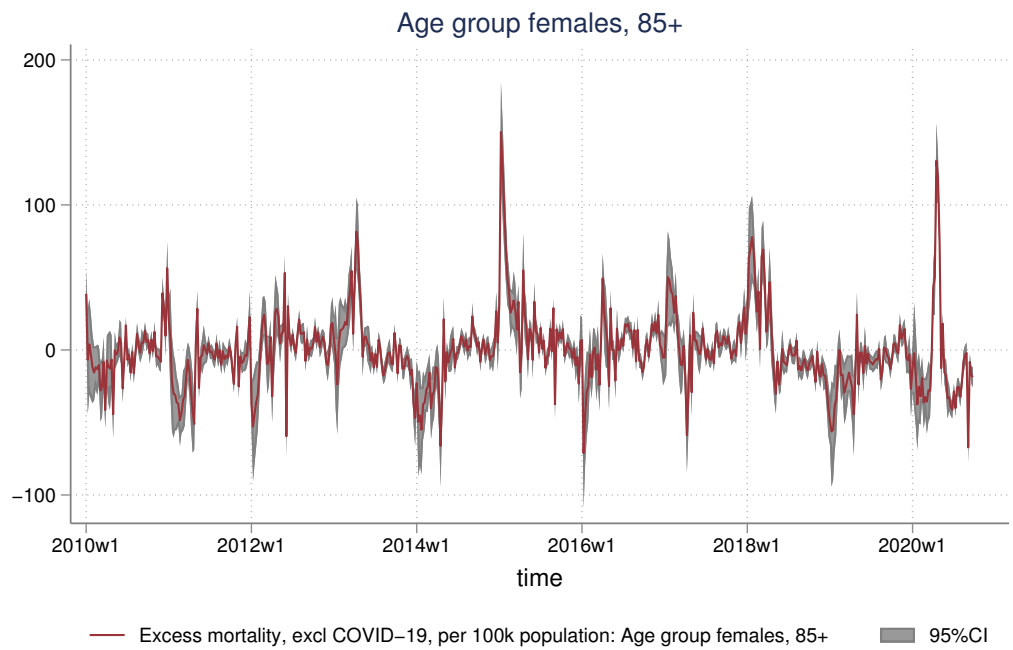


Figure 305: Females 85+ all-cause excess deaths (-COVID19), fm 2019 wk1

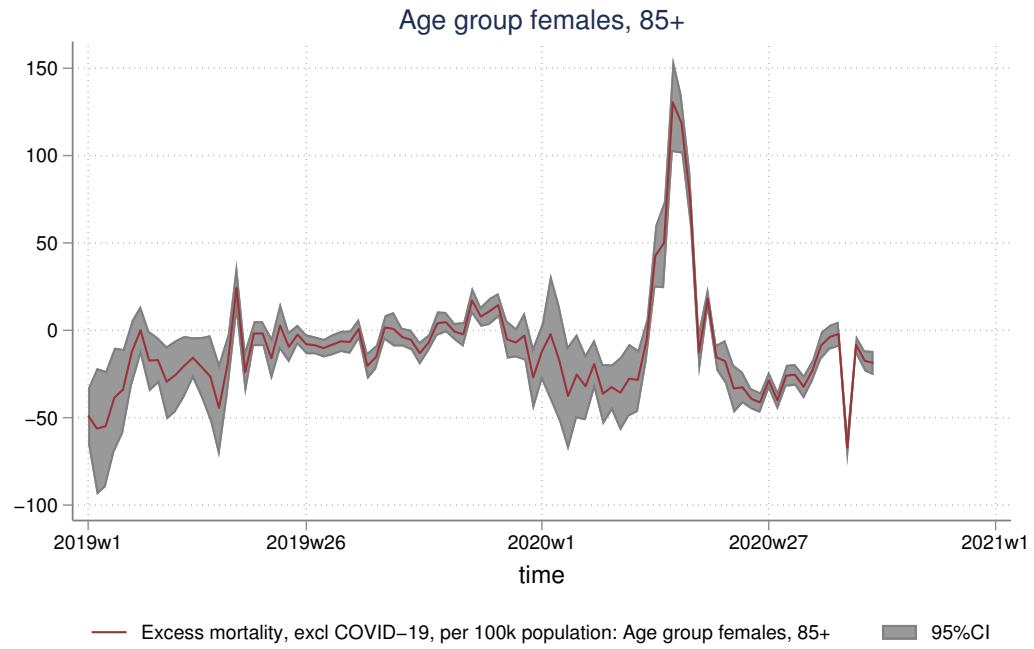
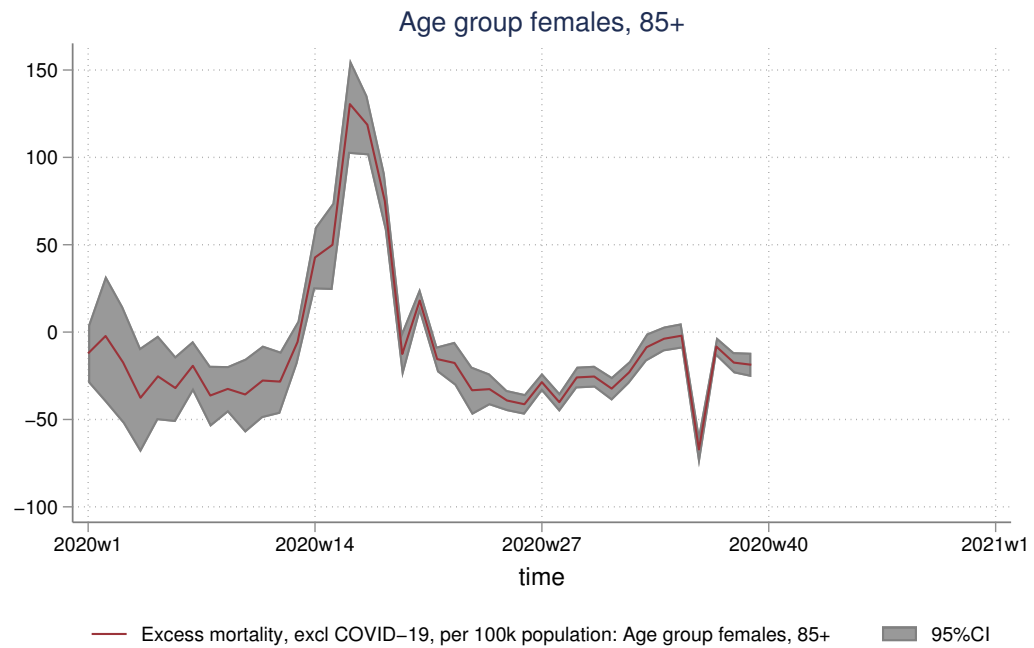


Figure 306: Females 85+ all-cause excess deaths (-COVID19), fm 2020 wk1



References

ONS (2020), *User guide to mortality statistics*. Accessed: 2020-05-06.

URL: <https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/methodologies/userguidetomortalitystatisticsjuly2017>