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

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1 England-Wales aggregates, per 100k population

1.1 Time trend

Figure 1: Mortality time trend, from 2010 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

Excess mortality excl COVID−19, per 100k population  95%CI

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

Excess mortality excl COVID−19, per 100k population  95%CI
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

![Graph showing 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

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Figure 36: NW all-cause excess deaths minus COVID19, from 2020 week 1
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Figure 39: YatH Mortality time trend and model, from 2020 week 1
Figure 40: YatH all-cause excess deaths, from 2010 week 1

![Graph showing excess mortality in Yorkshire and The Humber from 2010 to 2021.](image)

Excess mortality, total, per 100k population: Yorkshire and The Humber

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

![Graph showing excess mortality in Yorkshire and The Humber from 2019 to 2021.](image)

Excess mortality, total, per 100k population: Yorkshire and The Humber
Figure 42: YatH all-cause excess deaths, from 2020 week 1

Figure 43: YatH all-cause excess deaths minus COVID19, from 2010 week 1
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Figure 45: YatH all-cause excess deaths minus COVID19, from 2020 week 1
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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 53](image)

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

![Figure 54](image)
2.6 West Midlands

Figure 55: WMD Mortality time trend and model, from 2010 week 1
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Figure 63: WMD all-cause excess deaths minus COVID19, from 2020 week 1
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Figure 64: East Mortality time trend and model, from 2010 week 1
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Figure 66: East Mortality time trend and model, from 2020 week 1
Figure 67: East all-cause excess deaths, from 2010 week 1

![East all-cause excess deaths, from 2010 week 1](image)

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

![East all-cause excess deaths, from 2019 week 1](image)
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
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Figure 73: London Mortality time trend and model, from 2010 week 1

![Graph of London Mortality time trend and model](image)

- Observed
- Predicted

London
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

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South East

Excess mortality, total, per 100k population: South East 95%CI

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South East

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![Graph showing SE all-cause excess deaths minus COVID19, from 2019 week 1](image)

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![Graph showing SE all-cause excess deaths minus COVID19, from 2020 week 1](image)
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3.1 Time trends

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

Deaths per 100k population

- Age group persons, Under 1
- Age group persons, 01–14
- Age group persons, 15–44
- Age group persons, 45–64
- Age group persons, 65–74
- Age group persons, 75–84
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Deaths per 100k population

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Deaths per 100k population
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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

Age group persons, 01–14

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3.4 All aged 15-44

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

Age group persons, 15–44

Observed Predicted

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

![Graph showing age group persons, 15–44, from 2019 week 1 to 2021 week 1. The graph compares observed and predicted values over time.]

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

![Graph showing age group persons, 15–44, from 2020 week 1 to 2021 week 1. The graph compares observed and predicted values over time.]
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3.5 All aged 45-64

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

Age group persons, 45–64

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<td>2020w1</td>
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Red: Observed  Blue: Predicted
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Figure 148: All 65-74 mortality time trend and model, from 2010 week 1
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Age group persons, 65–74
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3.7 All aged 75-84

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

Age group persons, 75–84

Observed Predicted

Observed Predicted

2010w1 2012w1 2014w1 2016w1 2018w1 2020w1

time

Observed Predicted

2010w1 2012w1 2014w1 2016w1 2018w1 2020w1

time

- Observed
- Predicted
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Figure 196: Males 15-44 mortality time trend and model, from 2010 wk1
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![Diagram](image1)

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![Graph showing excess mortality, total, per 100k population: Age group males, 45–64 95%CI](image)

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![Figure 233](image1)

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Age group males, 85+

Excess mortality, total, per 100k population: Age group males, 85+ 95%CI

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Age group males, 85+

Excess mortality, total, per 100k population: Age group males, 85+ 95%CI
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5.1 Time trends

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5.2 Females aged under 1

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Age group females, Under 1

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

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![Excess mortality, total, per 100k population: Age group females, Under 1](image1)

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Age group females, Under 1

![Chart showing excess mortality, excl COVID-19, per 100k population: Age group females, Under 1, with 95%CI.]

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

Age group females, Under 1

![Chart showing excess mortality, excl COVID-19, per 100k population: Age group females, Under 1, with 95%CI.]

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Age group females, 01–14
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![Graph showing observed and predicted mortality rates for females 01-14 from 2019w1 to 2021w1.]

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Excess mortality, total, per 100k population: Age group females, 01–14 95%CI

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

Excess mortality, excl COVID−19, per 100k population: Age group females, 01–14 95%CI
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Figure 261: Females 01-14 all-cause excess deaths (−COVID19), fm 2020 wk1
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Figure 262: Females 15-44 mortality time trend and model, fm 2010 wk1

Age group females, 15-44
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Age group females, 15–44

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Age group females, 15–44

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Figure 266: Females 15-44 all-cause excess deaths, fm 2019 wk1
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Figure 273: Females 45-64 mortality time trend and model, fm 2020 wk1
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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

Age group females, 65–74

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Observed Predicted
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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
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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

Age group females, 75–84

Observed Predicted

2010w1 2012w1 2014w1 2016w1 2018w1 2020w1
time

Observed Predicted

173
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

![Excess mortality, total, per 100k population: Age group females, 75−84 95%CI](image)

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

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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
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Figure 306: Females 85+ all-cause excess deaths (−COVID19), fm 2020 wk1
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URL: https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/methodologies/userguidetomortalitystatisticsjuly2017