



IAA MWG: UK Mortality and Longevity Update

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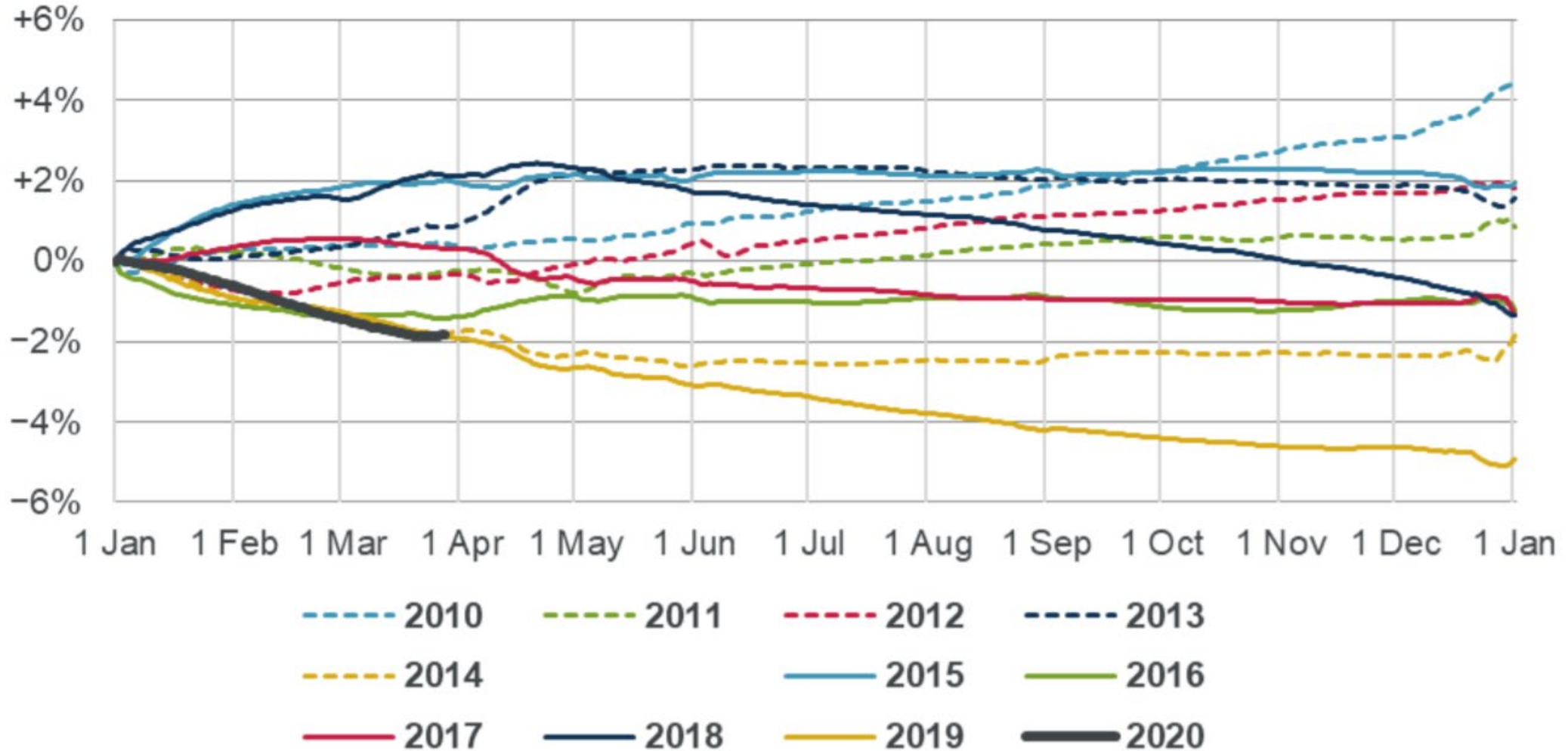
27 May 2020

Change in avoidable deaths in UK constituent countries between 2001 and 2018

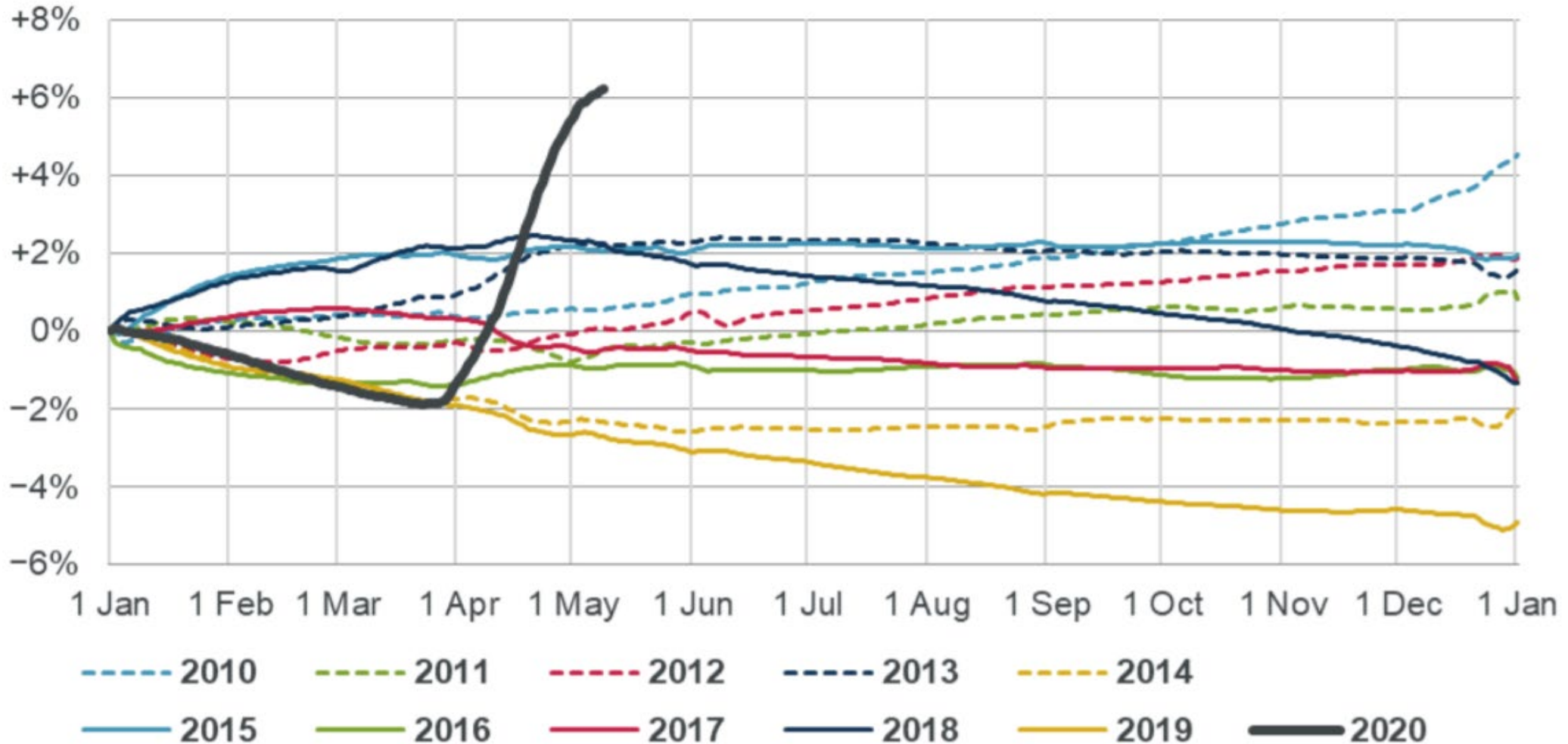
Avoidable deaths estimated to be 22% of all deaths in 2018 through public health, primary and secondary care interventions



England & Wales Cumulative annual standardised mortality improvement (to April 2020)



England & Wales Cumulative annual standardised mortality improvement (to 8 May 2020)



Estimate of UK excess mortality (to 8 May 2020)

Period	PHE reported ³	CMI excess	Actual CMI ÷ PHE	Assumed CMI ÷ PHE	Estimated Excess
Later (9 - 18 May 2020)	3,160	n/a	n/a	1.03-2.31	3,259 - 7,302
Week 19 (2 - 8 May 2020)	3,369	3,475	1.03	n/a	3,475
Week 18 (25 April - 1 May 2020)	4,279	6,587	1.54	n/a	6,587
Week 17 (18 - 24 April 2020)	5,467	11,794	2.16	n/a	11,794
Week 16 (11 - 17 April 2020)	5,711	13,197	2.31	n/a	13,197
Week 15 (4 - 10 April 2020)	5,932	8,076	1.36	n/a	8,076
Week 14 (28 March - 3 April 2020)	3,173	6,112	1.93	n/a	6,112
Earlier (to 27 March 2020)	1,126	n/a	n/a	1.03-2.31	1,161 - 2,602
TOTAL	32,217	n/a	n/a	n/a	53,661 - 59,145

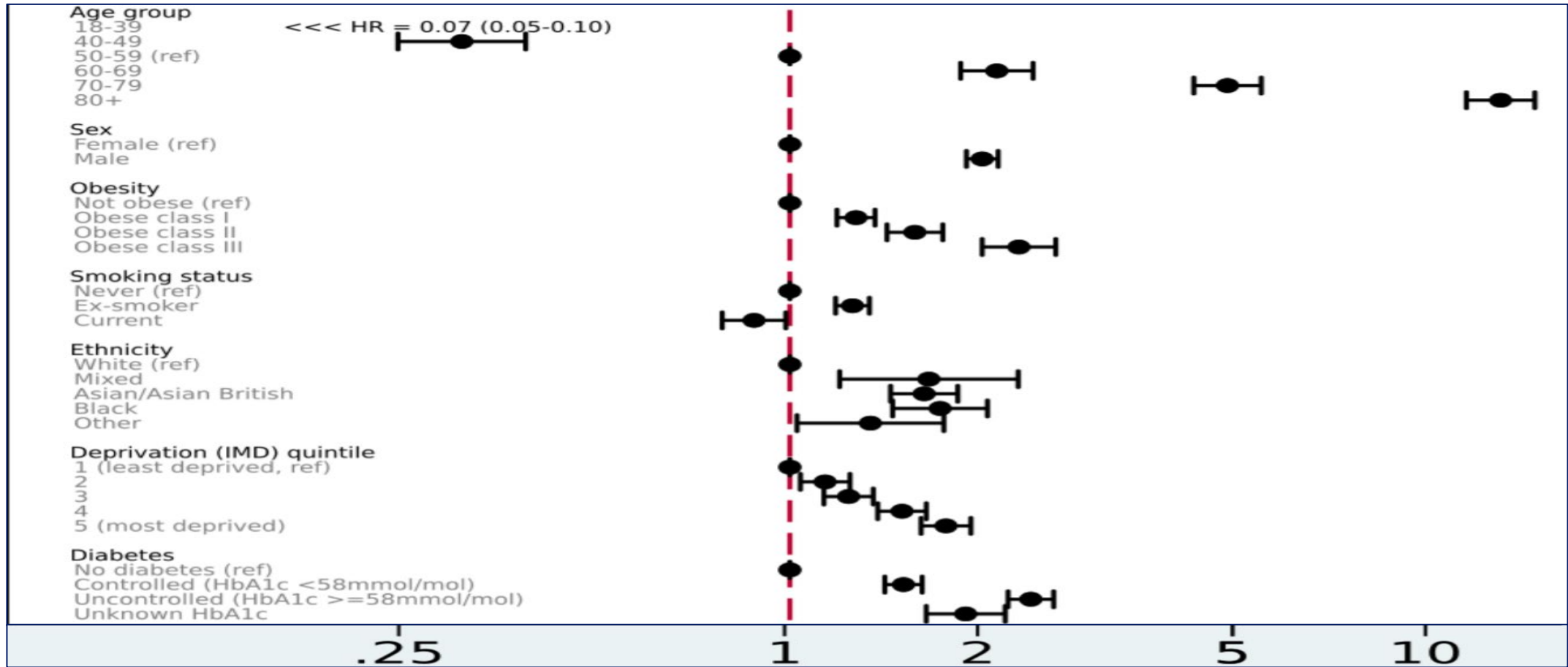
Using the same approach on PHE data for UK leads to an estimate of 57,000 to 64,000 excess registered deaths in the UK.



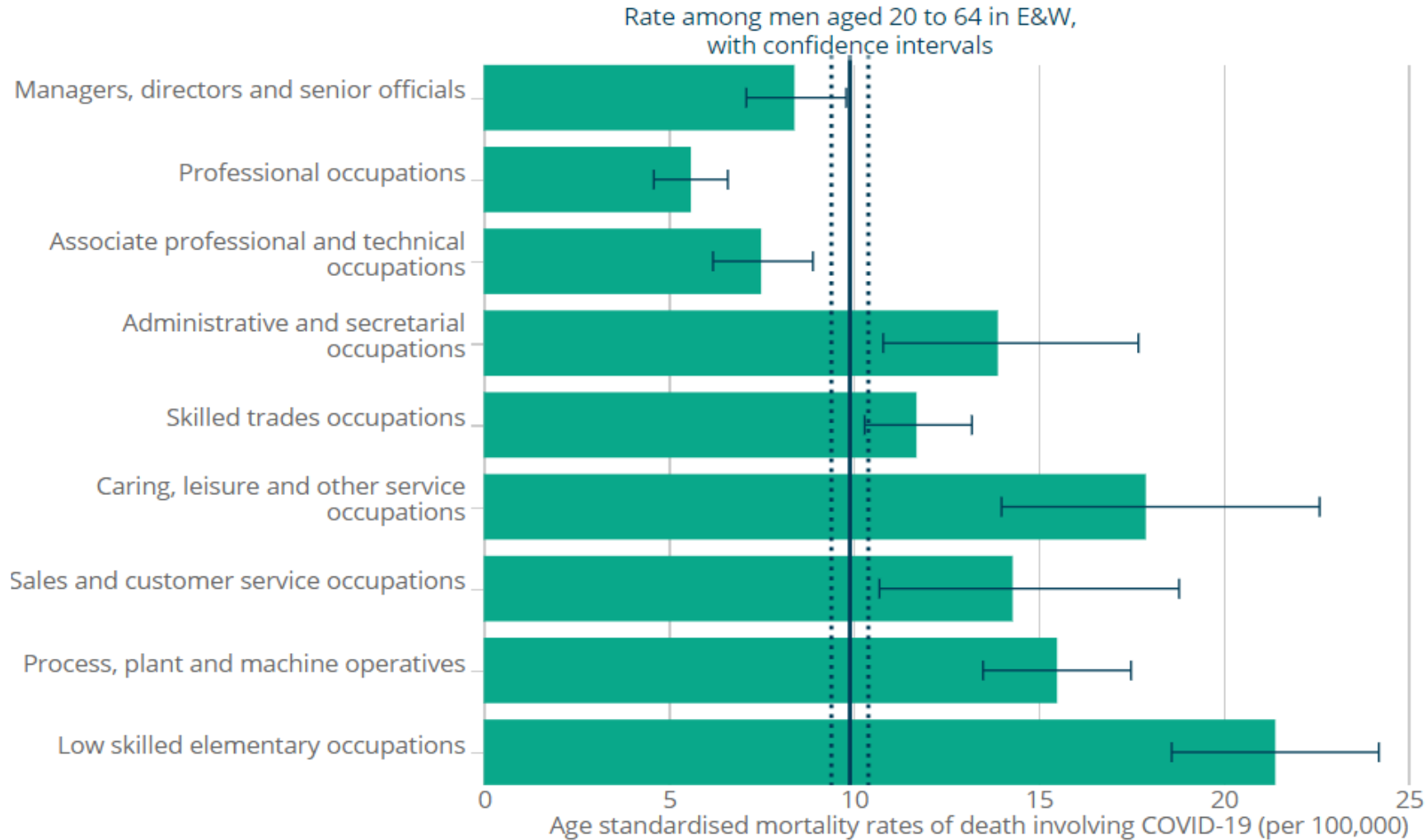
Key: PHE – Public Health England

OPENSafely – new insights from electronic health records

New platform of 17 million electronic health records provides opportunity for trusted researchers to investigate primary care data and build multi-variate models



ONS comparisons of COVID-19 registered deaths by major occupational group (to 20 April)





UK Resources

- UK groups involved in modelling/impact assessment of COVID-19
 - [MRC Biostatistics Unit, University of Cambridge](#)
 - [Evidence-Based Medicine DataLab at University of Oxford](#)
 - [Electronic Health Records \(EHR\) Resesarch Group at London School of Hygiene and Tropical Medicine](#)
 - [MRC Centre for Global Infectious Disease Analysis at Imperial College London](#)
- Key actuarial research groups
 - [Actuarial Research Centre](#)
 - [Continuous Mortality Investigation](#)
 - [Mortality Research Steering Committee](#)

