

Case fatality in hospitalised patients after 23rd March 2020

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Aim

To identify any difference in case fatality from COVID-19 before and after 23rd March 2020 associated with age and comorbidity.

Summary

Fewer deaths are seen after 23rd March 2020 by both simple case count and in formal survival models.

Methods

CO-CIN is a clinical study of 33,413 COVID-19 patients (as of 2020-05-11) admitted to UK hospitals. To avoid bias in the assessment of outcomes, patients admitted to hospital in the most recent 2 weeks were excluded.

Results

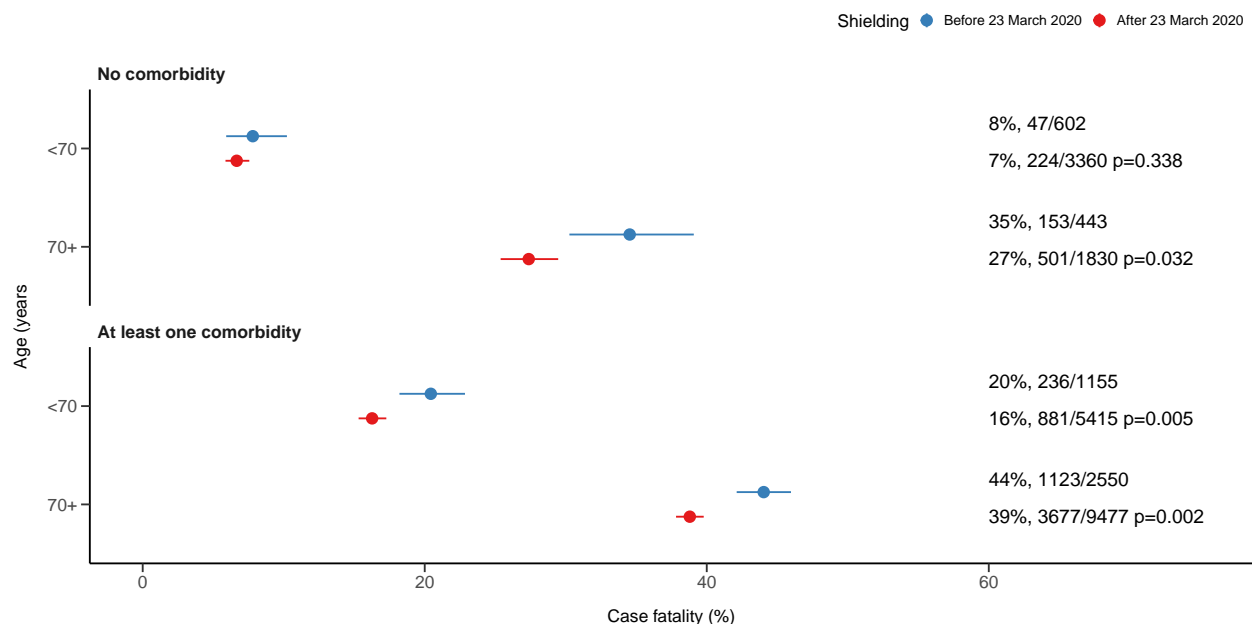
Case fatality in hospitalised patients with COVID-19 (CO-CIN)

Before and after 23rd March 2020 stratified by age and the presence of any comorbidity. N = 24832.

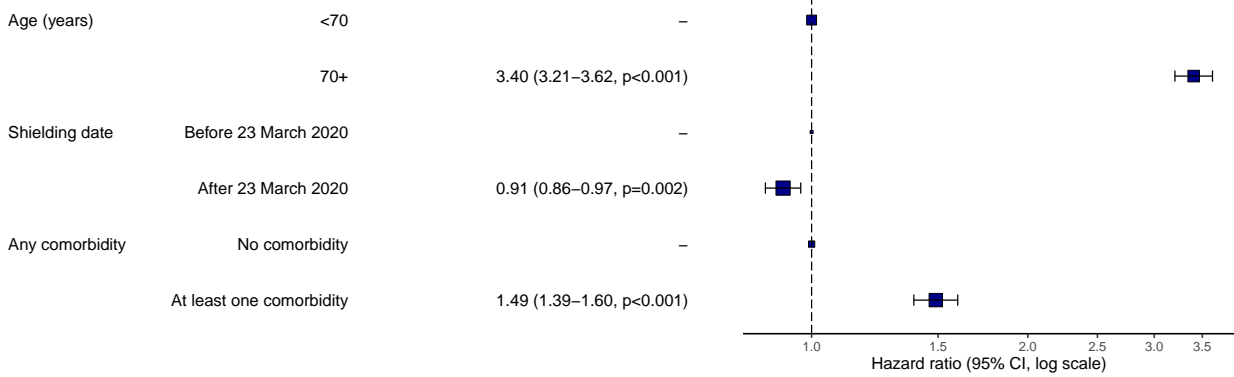
Denominator is all patients admitted prior to 10 April 2020.

Numbers are deaths / total per group and proportion (%). Binomial confidence intervals. Fisher's exact test.

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Mortality in hospitalised patients with COVID-19 (CPH model)



- CPH: Cox proportional hazards survival model accounting for discharge competing death.

Number in dataframe = 27109, Number in model = 25557, Missing = 1552, Number of events = 6877, Concordance = 0.659 (SE = 0.003), R-squared = 0.094(Max possible = 0.995), Likelihood ratio test = 2523.734 (df = 3, p = 0.000)