

# COVID-19 related deaths by ethnic group



Office for  
National Statistics

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# Introduction

- [ONS release](#) published on 7<sup>th</sup> May compares the risk of COVID-19 related death across selected ethnic groups
- COVID-19 related deaths: 2 March to 10 April 2020
- Linked death records to the 2011 Census to retrieve ethnicity
- Used logistic regression to compare risk, with adjustments for age and other relevant **characteristics**

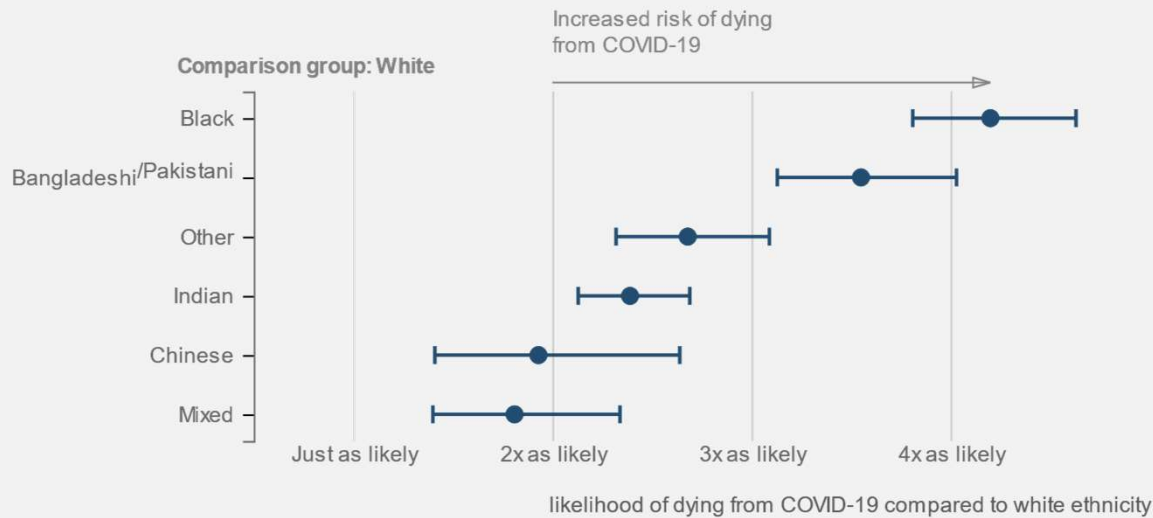
# Ethnic breakdowns used in this publication

The level of granularity informed by data constraints

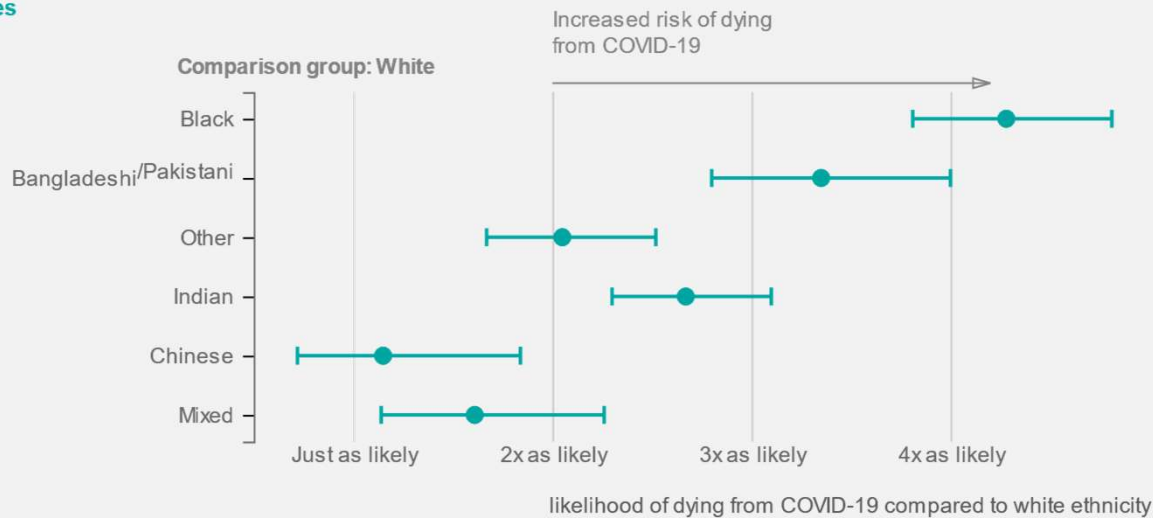
Ethnic breakdowns used	Their detailed composition
White	White British; Irish; Gypsy or Irish Traveller; Other White
Mixed/Multiple ethnic groups	White and Black Caribbean; White and Asian; White and Black African; Other Mixed
Indian	Indian
Bangladeshi and Pakistani	Bangladeshi and Pakistani
Chinese	Chinese
Black	Black Caribbean; Black African; Black Other
Other ethnic group	Asian other; Arab; Other ethnic group

# Risk of COVID-19 related death, adjusting for age

## Males



## Females

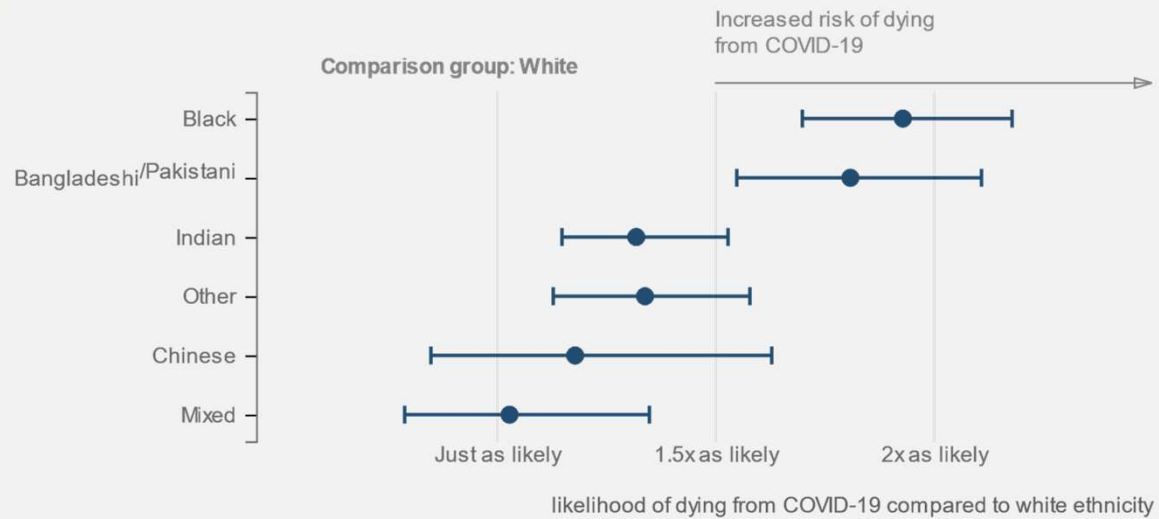


# What we adjust for using Census 2011 Characteristics

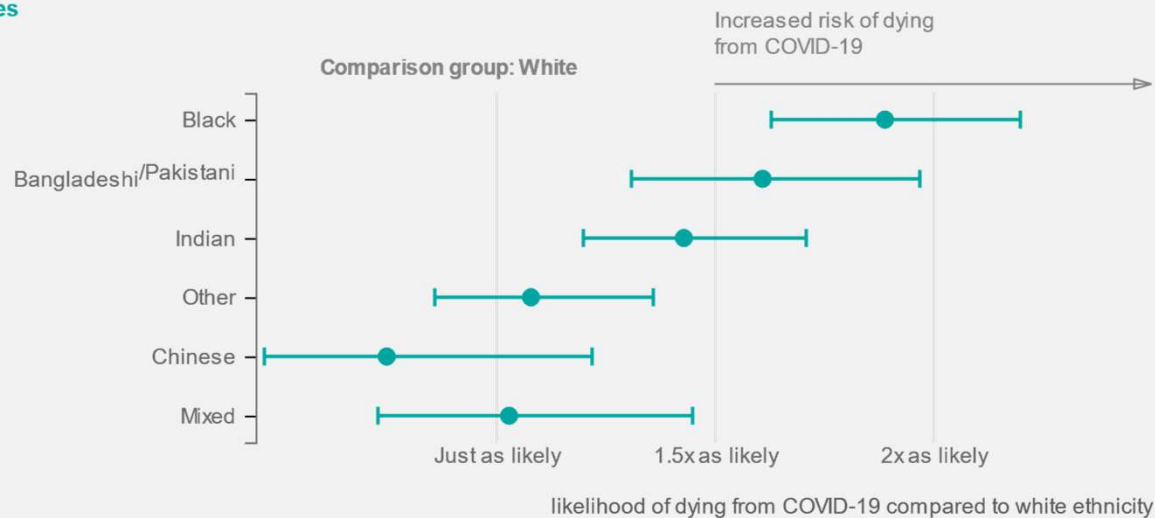
- Geographical factors
  - Region, urban/rural
- Area deprivation
  - IMD Deciles
- Household composition
  - Household type, number of household members
- Socio-economic Status
  - NS-SEC, Educational attainment, Household tenure
- Health
  - Self-reported health, disability

# Risk of COVID-19 death, adjusting for other factors

## Males



## Females



## Limitations and future work

- Characteristics retrieved from the 2011 Census
  - May not reflect current situation
  - Assessing scope of patient register to update location
- Missing important factors linked to exposure:
  - Occupational profiles
  - Multi-generational household
  - Population density

This will be included on updated release on 19<sup>th</sup> June

- Difference in health and underlying conditions
  - However, [this report](#) finds similar differences in risk of covid-19 death across ethnic group after adjusting for health

# Conclusion

- BAME are at a higher risk of COVID-19 deaths
- About half of the difference can be explained by factors we analysed
- Our results **do not imply** that ethnicity has a causal effect on the risk of COVID-19 death
- More work is needed to understand better the remaining differences