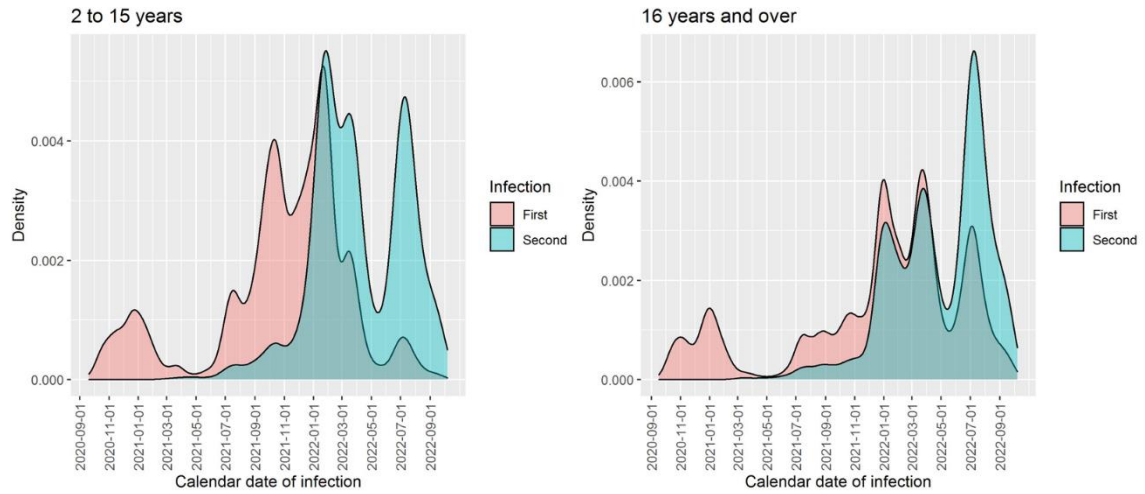
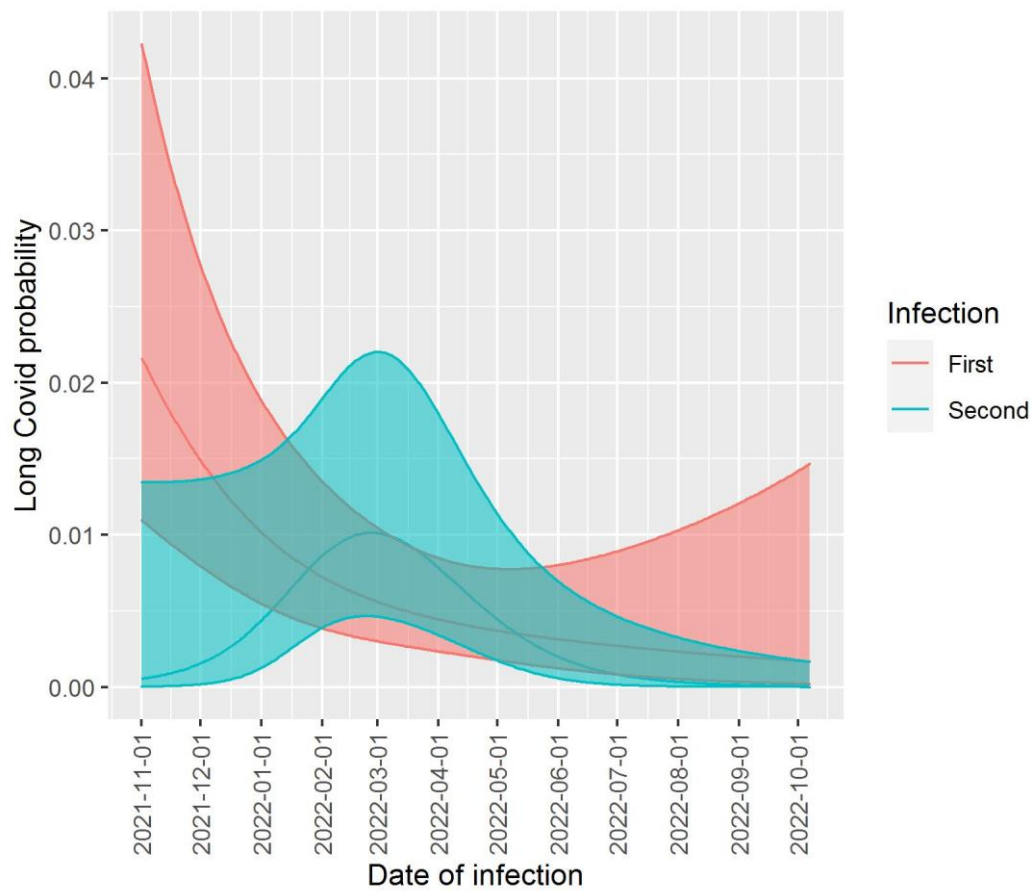


Supplementary Materials

Supplementary Figure 1. Density plots of calendar date of infection (before excluding infections occurring before 1 November 2021), stratified by infection episode and age group.



Supplementary Figure 2. Estimated marginal probability of Long Covid by calendar date of infection in those <16 years.¹



¹ Estimates were calculated using the emmeans package, adjusting for age, sex, and time from infection to follow-up for Long Covid. Shaded areas are 95% confidence intervals.

Supplementary Table 1. Number and percentage of households invited to participate in the COVID-19 Infection Survey who subsequently enrolled, by country and phase of study

Study phase	England	Wales	Northern Ireland	Scotland
Initial invitation	10,266 (51%)	7,031 (41%)	7,373 (43%)	N/A
Extension period	39,392 (43%)	N/A	N/A	N/A
AddressBase	173,583 (12%)	7,051 (14%)	N/A	23,217 (13%)

Notes: The initial invitation phase was open to previous respondents to ONS surveys who had consented to participate in future research, and started on 26 April 2020 in England, 29 June 2020 in Wales, and 26 July 2020 in Northern Ireland. The extension period refers to the period of time beyond the initial pilot phase of the study when the sample was increased, and started on 31 May 2020 in England. Sampling from AddressBase started on 13 July 2020 in England, 5 October 2020 in Wales, and 14 September 2020 in Scotland, and involved randomly selecting addresses from an address list. Enrolment rates are as of 31 January 2022, when recruitment into the study ended, and are taken from the technical dataset accompanying the official COVID-19 Infection Survey publication: <https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/datasets/covid19infectionsurveytechnicaldata>

Supplementary Table 2. Percentage (%) of participants who reported each of the Long Covid symptoms among those ≥ 16 years who reported having Long Covid after a first or second SARS-CoV-2 infection, with 95% confidence intervals

Symptom	Long COVID after first infection (N=4,381)	Long COVID after second infection (N=274)
Abdominal pain	5.4 (4.8 to 6.1)	6.6 (4.2 to 10.1)
Chest pain	8.7 (7.9 to 9.6)	12.0 (8.7 to 16.4)
Cough	24.0 (22.8 to 25.3)	25.9 (21.1 to 31.4)
Diarrhoea	5.0 (4.4 to 5.7)	5.5 (3.4 to 8.8)
Difficulty concentrating	26.1 (24.8 to 27.4)	34.7 (29.3 to 40.5)
Fever	2.4 (1.9 to 2.8)	1.5 (0.6 to 3.7)
Headache	21.8 (20.6 to 23.0)	24.5 (19.7 to 29.9)
Loss of appetite	9.0 (8.2 to 9.9)	8.4 (5.7 to 12.3)
Loss of smell	16.4 (15.3 to 17.5)	18.6 (14.5 to 23.6)
Loss of taste	14.5 (13.5 to 15.6)	16.1 (12.2 to 20.9)
Low mood or not enjoying	19.2 (18.0 to 20.4)	27.0 (22.1 to 32.6)
Memory loss or confusion	19.5 (18.4 to 20.7)	24.1 (19.4 to 29.5)
Muscle ache	26.7 (25.4 to 28.1)	28.5 (23.5 to 34.1)
Nausea or vomiting	5.0 (4.4 to 5.7)	4.0 (2.3 to 7.0)
Palpitations	10.2 (9.3 to 11.1)	13.1 (9.6 to 17.7)
Shortness of breath	33.7 (32.3 to 35.1)	30.7 (25.5 to 36.4)
Sore throat	9.2 (8.4 to 10.1)	9.5 (6.6 to 13.5)
Trouble sleeping	20.2 (19.0 to 21.4)	23.7 (19.1 to 29.1)
Vertigo or dizziness	14.5 (13.5 to 15.5)	17.2 (13.2 to 22.1)
Weakness or tiredness	61.6 (60.1 to 63.0)	57.7 (51.8 to 63.4)
Worry or anxiety	19.3 (18.2 to 20.5)	27.7 (22.8 to 33.3)