Dynamic CO-CIN report to SAGE and NERVTAG

Dynamic content updated: 2020-08-05 15:24:26.

Executive summary

The COVID-19 Clinical Information Network (CO-CIN) collated clinical information from the usual health care records of people of all ages admitted to hospital in the UK.

Up to 10th March people with positive swabs were admitted to hospital as part of the containment strategy. Since 10th March, admission is mostly based upon need for treatment of COVID-19 disease. The great majority of cases in the community do not require hospital admission.

In total up until 05 August 2020, CO-CIN has recruited 77676 patients with confirmed Coronavirus (Figure 1).

Patient data is collected and uploaded from start of admission, however a complete patient data set is not available until the episode of care is complete. This causes a predictable lag in available data influenced by the duration of admission which is greatest for the sickest patients.

The geographical location of our patients can be seen in Figure 2, of these 1051 had travelled abroad recently, and 7793 reported visiting or working in a hospital where COVID-19 cases are being managed.

The median age is 74 (range: 0-107), Male/Female 41917/32740.

The most common symptoms were history of fever (60%), cough (60%) and shortness of breath (dyspnea) (59%) (Figure 3A). 4755/71264 (7%) of patients have reported no symptoms. Comorbidity can be seen in Figure 3B. The most common comorbidities were hypertension (physician diagnosed) (46%), chronic cardiac disease, including congenit...t hypertension) (31%) and chronic pulmonary disease (not asthma) (17%). 14971/71503 (21%) of patients have reported no comorbidity. 487/6249 (8%) of women were recorded as being pregnant.

For patients not already in hospital, the median time from onset of symptoms to presentation at hospital was 4 days (range: 0 - 368894 days).

The median length of hospital stay was 9 days (interquartile range: 5-19, n = 66859). 9044/58245 (16%) patients required high-flow oxygen after day 1 of treatment.

Currently 22078 patient(s) have died and 9943 required ICU. 41839 have been discharged home.

Interpretation: The dataset is increasingly more representative of the burden of disease requiring hospitalisation and captures the early exponential rise of disease incidence that is now increasingly driven by domestic transmission events in the community.

Furthermore, we can now see 'hot spots' of disease incidence that largely reflect areas of high population density (most notably London) with a few exceptions to this. There are more men than women, consistent with reports from other countries. The proportion of pregnant women affected is broadly in line with the proportion of pregnant women in the general population.

The commonest comorbidity is chronic cardiac disease, reflecting patterns seen in other countries, although nearly a quarter of patients admitted do not have underlying comorbid disease.

Patients documented as being admitted to ICU are mainly 50-75 years old. When interpreting admission to ICU it is important to remember that we are currently unable to capture treatment limiting decisions regarding level of care.

Prof Calum Semple, Professor in Child Health and Outbreak Medicine, University of Liverpool.

Dr Annemarie Docherty, Academic Consultant Intensive Care University of Edinburgh.

Dr Chris Green, Academic Consultant Infectious Disease University of Birmingham.

Prof Ewen Harrison, Director Centre for Medical Informatics, Usher Institute, University of Edinburgh (analysis).

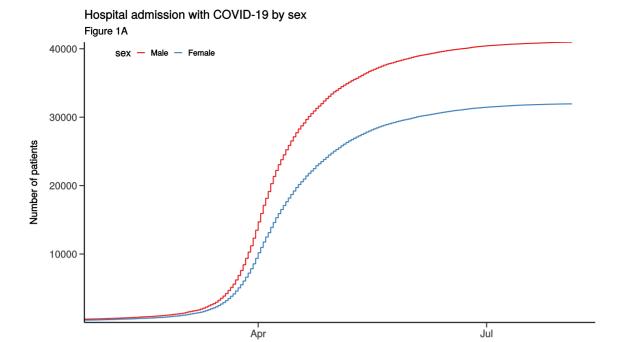
Professor Tom Solomon, Director HPRU Emerging and Zoonotic Infection.

ISARIC Investigators (Prof. Peter Horby, Prof. Peter Openshaw, Dr Gail Carson, and Dr Kenneth Baillie).

Analytics: Lisa Norman, Riinu Pius, Thomas Drake, Cameron Fairfield, Stephen Knight, Kenneth McLean, Katie Shaw.

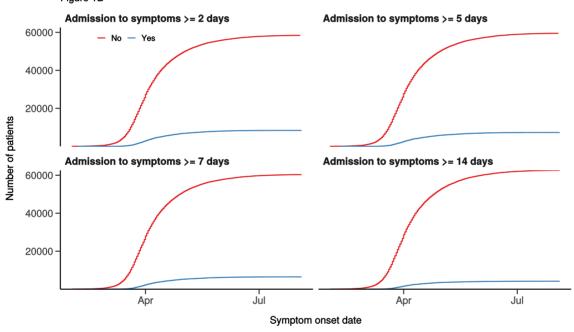
Admission

Figure 1



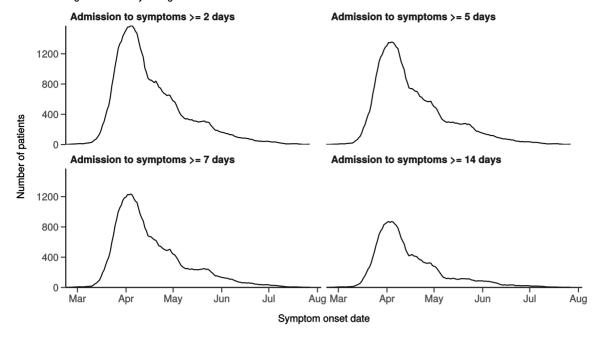
Admission date

Number with symptom onset occuring after admission to hospital Figure 1B



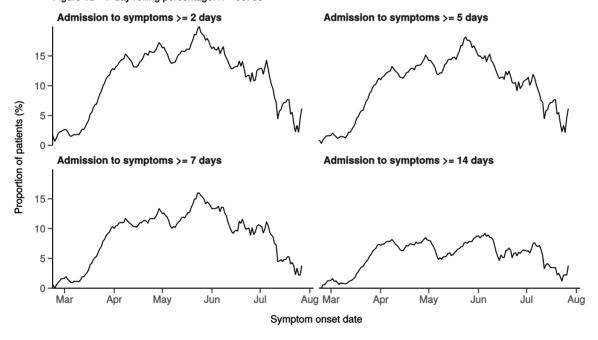
Number with symptom onset occuring after hospital admission

Figure 1C - 7-day rolling count. n = 66793

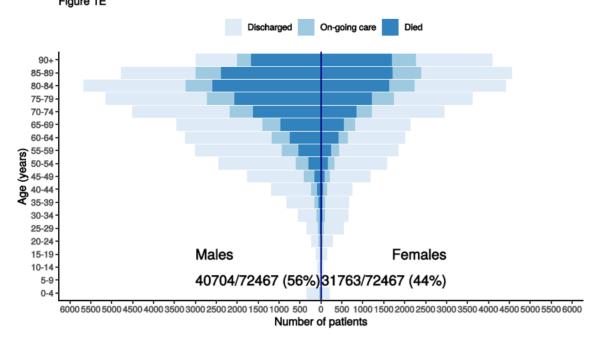


Proportion with symptom onset occuring after hospital admission

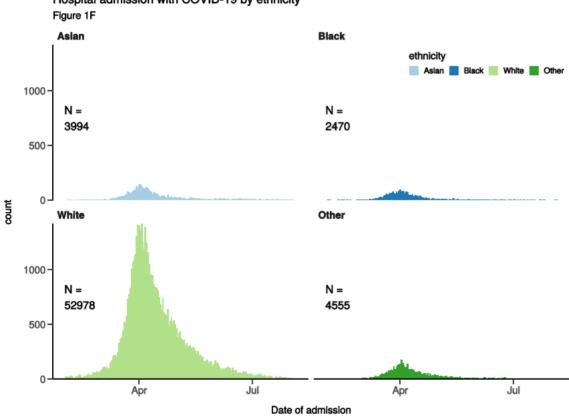
Figure 1D - 7-day rolling percentage. n = 66793



Patients with outcome stratified by age, and sex Figure 1E



Hospital admission with COVID-19 by ethnicity



Symptoms and comorbidity

Figure 3A

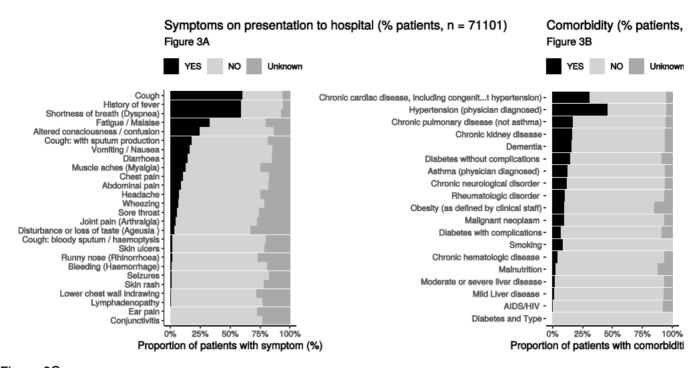
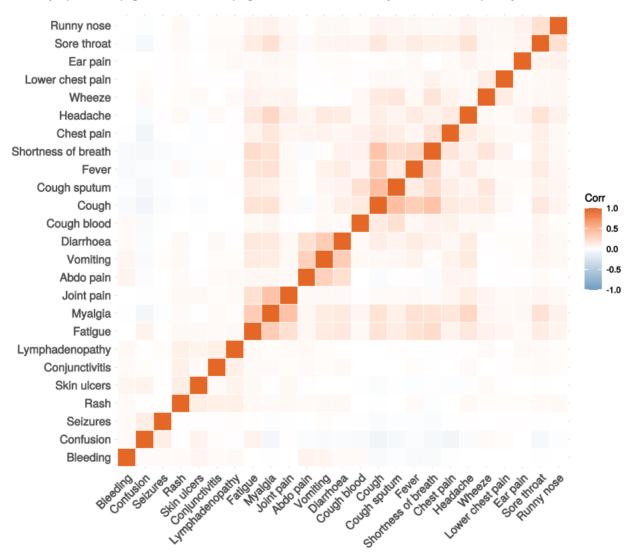
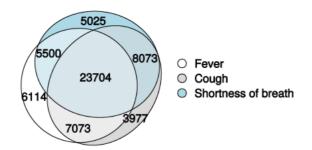


Figure 3C

Correlation of symtpoms in all pages. Note clusters, top right to bottom left, flu-like, coryzal, abdominal, respiratory, neurocutaneous.

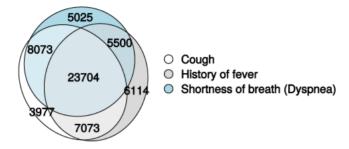


Symptoms (diagnostic criteria)



Symptoms (most common)

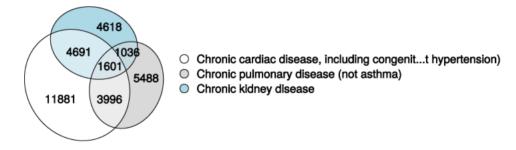
Figure 4B n = 71101



Comorbidity (most common)

Figure 4C

n = 71275



Medication prior to illness

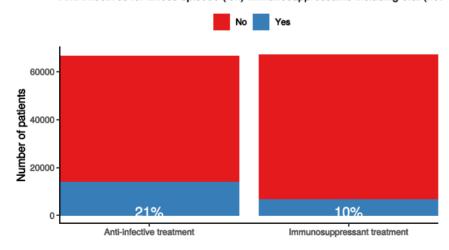
Figure 5

Preadmission treatment

Figure 5

Pre-admission treatment

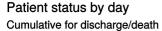
Anti-infectives for illness episode (left) immunosuppressants including oral (not



Patient flow

Figure 6A - All patients

N = 72161



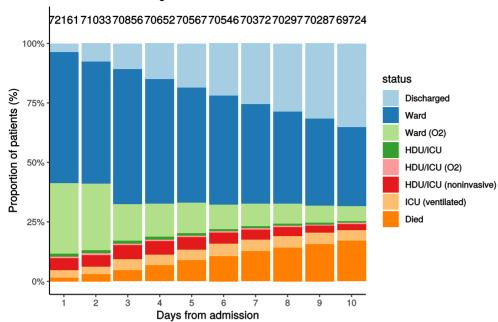
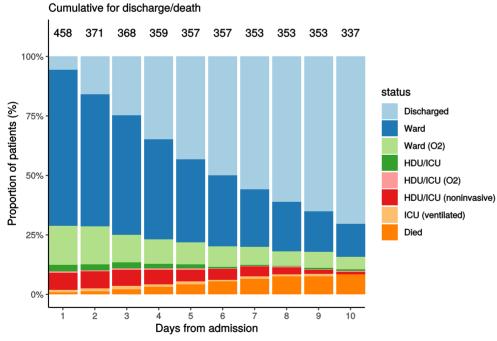


Figure 6B - Patients admitted >=14 days and <=28 days ago

N = 458

Patient status by day



Oxygen requirement

Figure 7A - All patients

N = 68798

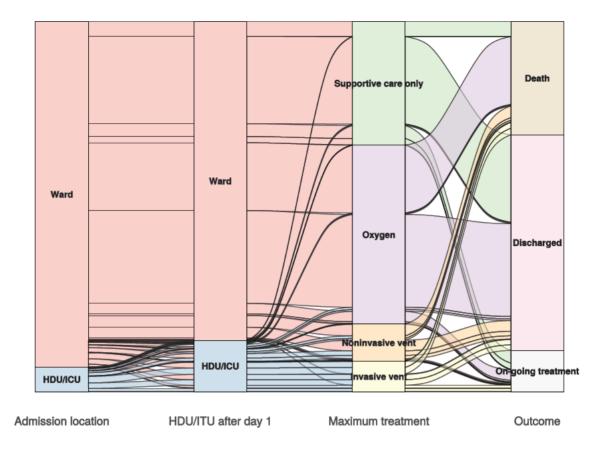
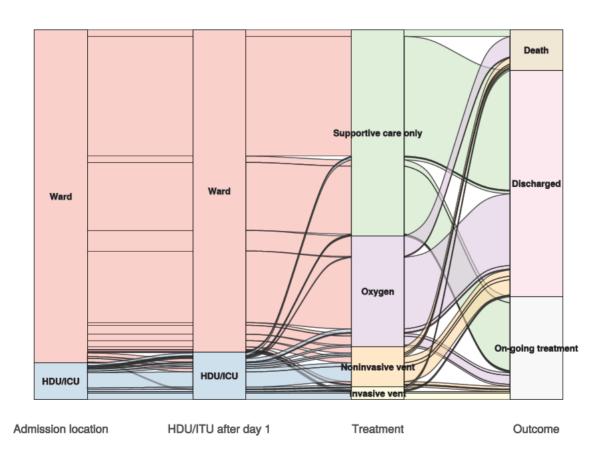
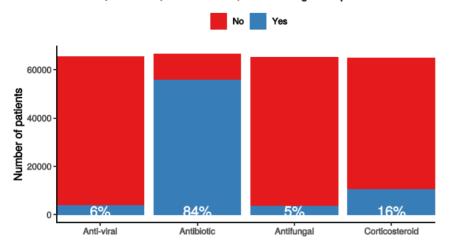


Figure 7B - Patients admitted >=14 days and <=28 days ago N = 436

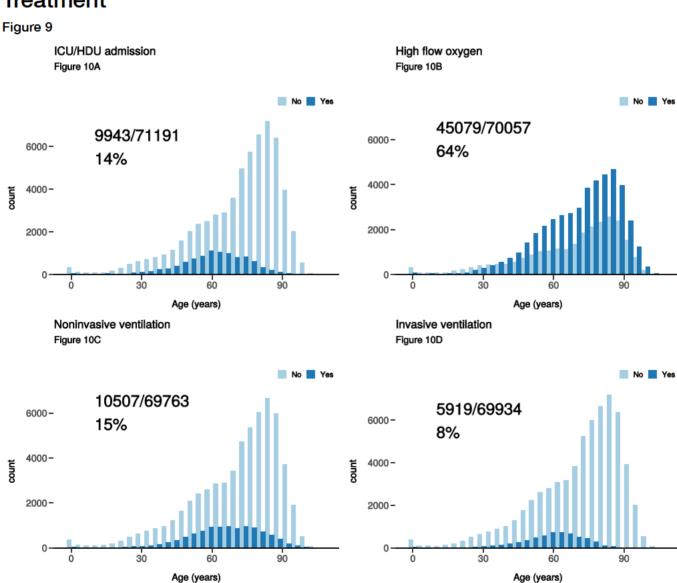


In-hospital medical treatment

Anti-virals, antibiotics, corticosteroids, and anti-fungals for patients who have co

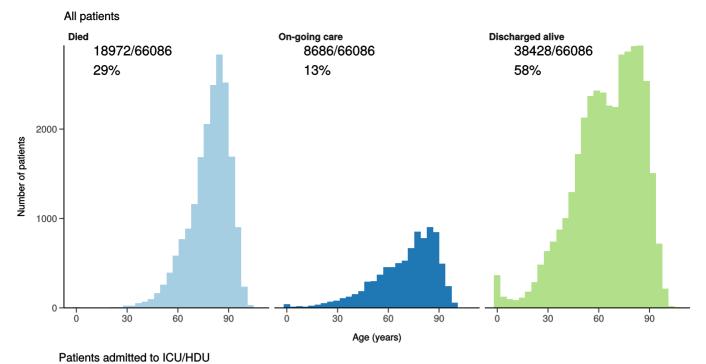


Treatment

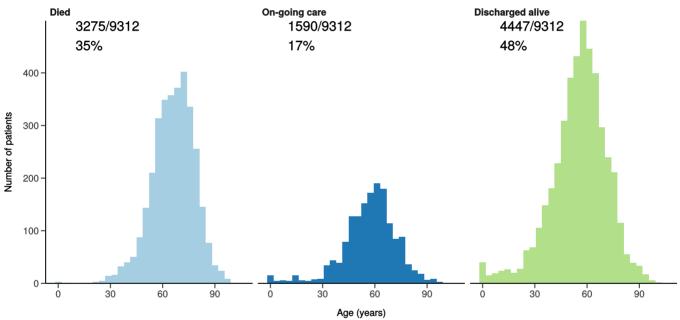


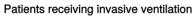
Status of patients admitted >=14 days from today

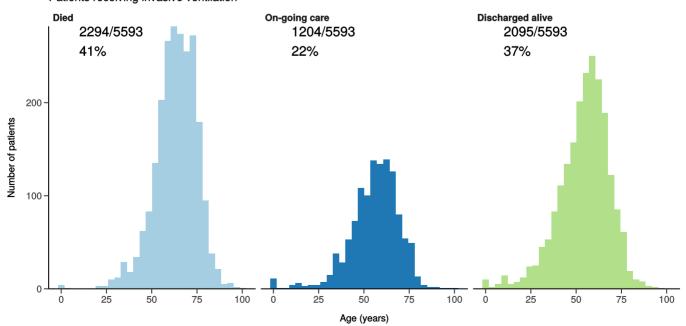
Figure 10







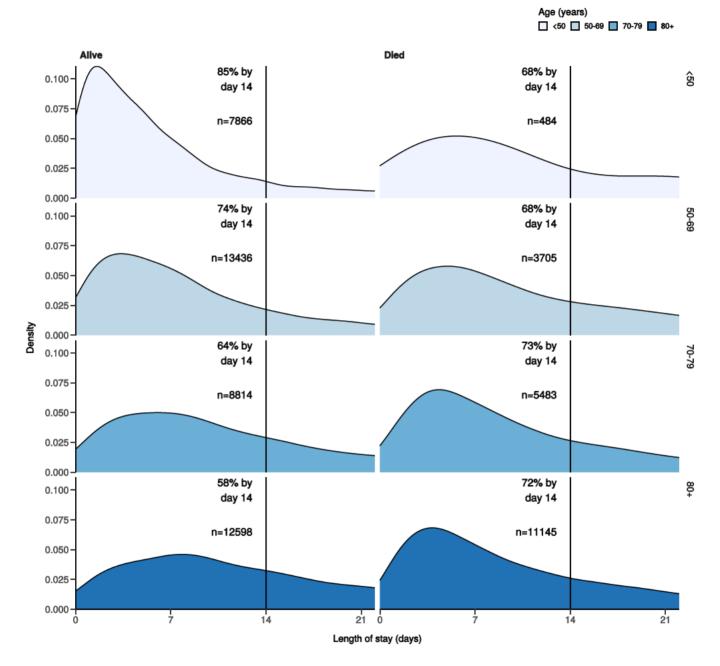




Length of stay stratified by age

Figure 11

Length of stay stratified by age and mortality Proportion who reach outcome by day 14 shown



Predictors of death: logistic regression multivariable model

Logistic regression model only includes patients admitted >14 days ago from today.

| Dependent: death | | No | Yes | OR (univariable) | OR (multivariable) |
|------------------|-------|--------|-----------|---------------------|---------------------|
| age.factor | <50 | 9050 | 517 (5.4) | • | • |
| | | (94.6) | | | |
| | 50-69 | 14914 | 3889 | 4.56 (4.15-5.03, | 4.30 (3.87-4.80, |
| | | (79.3) | (20.7) | p<0.001) | p<0.001) |
| | 70-79 | 9746 | 5758 | 10.34 (9.42-11.38, | 8.76 (7.86-9.77, |
| | | (62.9) | (37.1) | p<0.001) | p<0.001) |
| | 80+ | 13736 | 11699 | 14.91 (13.61-16.36, | 12.55 (11.28-14.00, |
| | | (54.0) | (46.0) | p<0.001) | p<0.001) |

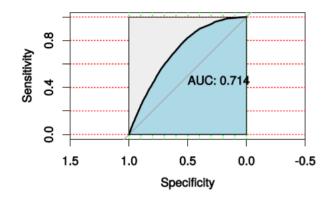
| Dependent: death | | No | Yes | | OR (univariable) | OR (multivariable) |
|--|------------------|-----------------|-----------------|---|------------------------------|------------------------------|
| Sex at Birth | Male | 25816 (66.1) | 13252 (33.9) | • | | • |
| | Female | 21752 (71.5) | 8661 (28.5) | | 0.78 (0.75-0.80, p<0.001) | 0.70 (0.67-0.73, p<0.001) |
| | Not specified | 0 (NaN) | 0 (NaN) | • | | • |
| Chronic cardiac disease, including congenitt hypertension) | NO | 32252 (73.5) | 11651 (26.5) | • | | • |
| | YES | 12490 (58.4) | 8879 (41.6) | | 1.97 (1.90-2.04, p<0.001) | 1.14 (1.10-1.19, p<0.001) |
| Chronic pulmonary disease (not asthma) | NO | 37739 (70.8) | 15573 (29.2) | • | | • |
| | YES | 6883 (59.0) | 4786 (41.0) | | 1.69 (1.62-1.76, p<0.001) | 1.25 (1.19-1.32, p<0.001) |
| Chronic neurological disorder | NO | 39104 (69.8) | 16948 (30.2) | • | | • |
| | YES | 5197 (61.8) | 3215 (38.2) | | 1.43 (1.36-1.50, p<0.001) | 1.14 (1.08-1.21, p<0.001) |
| Chronic hematologic disease | NO | 42416 (69.1) | 18932 (30.9) | • | | • |
| | YES | 1750 (60.8) | 1130 (39.2) | | 1.45 (1.34-1.56, p<0.001) | 1.16 (1.05-1.27, p=0.002) |
| Chronic kidney disease | NO | 37987 (71.3) | 15274 (28.7) | • | | • |
| | YES | 6497 (56.4) | 5019 (43.6) | | 1.92 (1.84-2.00, p<0.001) | 1.29 (1.23-1.35, p<0.001) |
| Dementia | NO | 38472 (71.9) | 15062 (28.1) | • | | • |
| | YES | 5894 (53.2) | 5194 (46.8) | | 2.25 (2.16-2.35, p<0.001) | 1.38 (1.31-1.45, p<0.001) |
| Obesity (as defined by clinical staff) | NO | 35354 (68.8) | 16011 (31.2) | • | | • |
| | YES | 5005 (72.3) | 1922 (27.7) | | 0.85 (0.80-0.90, p<0.001) | 1.32 (1.23-1.40, p<0.001) |
| Malignant neoplasm | NO | 40429 (70.3) | 17114 (29.7) | • | | • |
| | YES | 3765 (55.8) | 2983 (44.2) | | 1.87 (1.78-1.97, p<0.001) | 1.45 (1.36-1.54, p<0.001) |

Number in dataframe = 72693, Number in model = 55276, Missing = 17417, AIC = 60709.6, C-statistic = 0.714, H&L = Chi-sq(8) 125.35 (p<0.001)

Figure 12 - Adjusted odds ratio plot

| Death | | | | | |
|--|---------------------|--------------------------------------|------------------------|----------------|----|
| age.factor | <50 | - | • | | |
| | 50-69 | 4.30 (3.87-4.80, p<0.001) | Η. | H | |
| | 70-79 | 8.76 (7.86-9.77, p<0.001) | | | H |
| | 80 + | 12.55 (11.28-14.00, p<0.001) | İ | | H |
| Sex at Birth | Male | - | • | | |
| 1 | Female | 0.70 (0.67-0.73, p<0.001) | | | |
| Not sp | ecified | - | • | | |
| Chronic cardiac disease, including | con ge8 itth | ypertension).14 (1.10-1.19, p<0.001) | ■ | | |
| Chronic pulmonary disease (not as | hm ¥# S | 1.25 (1.19-1.32, p<0.001) | - | | |
| Chronic neurological disorder | YES | 1.14 (1.08-1.21, p<0.001) | - | | |
| Chronic hematologic disease | YES | 1.16 (1.05-1.27, p=0.002) | ⊢= -1 | | |
| Chronic kidney disease | YES | 1.29 (1.23-1.35, p<0.001) | - | | |
| Dementia | YES | 1.38 (1.31-1.45, p<0.001) | HIII | | |
| Obesity (as defined by clinical staff) | YES | 1.32 (1.23-1.40, p<0.001) | H # H | | |
| Malignant neoplasm | YES | 1.45 (1.36-1.54, p<0.001) | H E | | |
| | | | Odds ratio (95% CI, lo | 5 og scale) | 10 |

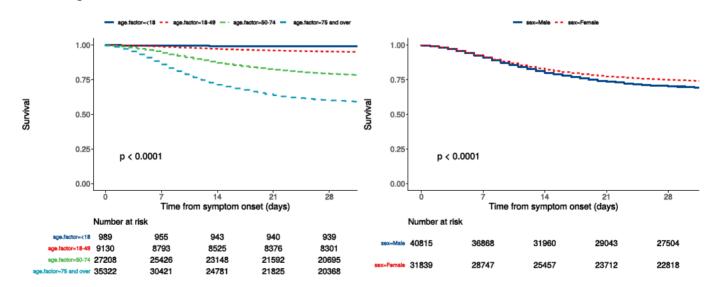
Figure 13 - ROC



Survival models

Kaplan-Meier plots for survival from symptom onset stratified by age (left) and sex (right)

Figure 14
P-value is log-rank test.



Cox proportional hazards model

The methodology for this is now up and running, but models are still being explored. What is presented here is not a final model, but to demonstrate methodology. The results are correct, but important variables have not yet been included.

| Dependent: Surv(time, status) | | all | HR (univariable) | HR (multivariable) |
|--|----------------|-----------------|------------------------------|--------------------------------|
| age.factor | <50 | 10119 (13.9) | • | • |
| | 50-69 | 19735 (27.2) | 4.14 (3.78-4.54, p<0.001) | 4.09 (3.65-4.58, p<0.001) |
| | 70-79 | 16243 (22.4) | 8.41 (7.68-9.21, p<0.001) | 8.04 (7.19-9.00, p<0.001) |
| | 80+ | 26556 (36.6) | 11.35 (10.39-12.40, p<0.001) | 10.58 (9.46-11.83, p<0.001) |
| Sex at Birth | Male | 40815 (56.2) | • | • |
| | Female | 31839 (43.8) | 0.82 (0.80-0.84, p<0.001) | 0.79 (0.76-0.81, p<0.001) |
| qSOFA score on admission | 0 | 26199 (42.4) | • | • |
| | 1 | 27792 (45.0) | 1.58 (1.53-1.64, p<0.001) | 1.70 (1.64-1.76, p<0.001) |
| | 2 | 6952 (11.3) | 2.99 (2.87-3.12, p<0.001) | 2.81 (2.68-2.95, p<0.001) |
| | 3 | 784 (1.3) | 4.87 (4.44-5.33, p<0.001) | 4.50 (4.06-4.98, p<0.001) |
| Symptomatic at presentation | No symptoms | 3322 (4.7) | • | • |
| | Symptoms | 67641 (95.3) | 1.52 (1.41-1.63, p<0.001) | • |
| Chronic cardiac disease, including congenitt hypertension) | NO | 45364 (67.3) | • | • |
| | YES | 22062 (32.7) | 1.75 (1.70-1.80, p<0.001) | 1.12 (1.09-1.16, p<0.001) |
| Chronic kidney disease | NO | 55024 (82.2) | • | • |
| | YES | 11889 (17.8) | 1.71 (1.66-1.77, p<0.001) | 1.21 (1.17-1.26, p<0.001) |
| Moderate or severe liver disease | NO | 64924 (98.0) | • | • |
| | YES | 1310 (2.0) | 1.28 (1.17-1.40, p<0.001) | 1.43 (1.28-1.60, p<0.001) |
| Chronic neurological disorder | NO | 57922 (87.0) | • | • |
| | YES | 8657 (13.0) | 1.36 (1.31-1.41, p<0.001) | • |
| Malignant neoplasm | NO | 59480 (89.6) | • | • |
| | YES | 6919 (10.4) | 1.63 (1.57-1.70, p<0.001) | 1.32 (1.26-1.38, p<0.001) |
| Chronic hematologic disease | NO | 63381 (95.6) | • | • |
| | YES | 2943 (4.4) | 1.34 (1.26-1.42, p<0.001) | • |
| | | | | |

| Dependent: Surv(time, status) | | all | HR (univariable) | HR (multivariable) |
|--|-----|-----------------|---------------------------|---------------------------|
| Obesity (as defined by clinical staff) | NO | 53076 (88.2) | • | • |
| | YES | 7134 (11.8) | 0.86 (0.82-0.91, p<0.001) | 1.19 (1.13-1.25, p<0.001) |
| Diabetes without complications | NO | 54009 (83.4) | • | • |
| | YES | 10739 (16.6) | 1.24 (1.20-1.29, p<0.001) | • |
| Rheumatologic disorder | NO | 58643 (88.6) | • | • |
| | YES | 7516 (11.4) | 1.20 (1.15-1.25, p<0.001) | • |
| Dementia | NO | 55326 (82.9) | • | • |
| | YES | 11410 (17.1) | 1.98 (1.92-2.05, p<0.001) | 1.18 (1.13-1.23, p<0.001) |
| Malnutrition | NO | 60742 (97.2) | • | • |
| | YES | 1744 (2.8) | 1.45 (1.34-1.56, p<0.001) | • |
| smoking_mhyn_2levels | NO | 39832 (58.4) | • | • |
| | YES | 3809 (5.6) | 0.88 (0.83-0.94, p<0.001) | • |
| | N/K | 24546 (36.0) | 1.25 (1.22-1.29, p<0.001) | • |

Number in dataframe = 72991, Number in model = 50362, Missing = 22629, Number of events = 14971, Concordance = 0.716 (SE = 0.002), R-squared = 0.160(Max possible = 0.998), Likelihood ratio test = 8758.872 (df = 13, p = 0.000)

Figure 15a - Multivariable Cox proportional hazards model

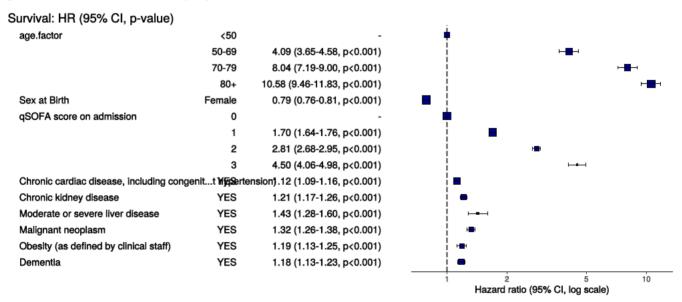
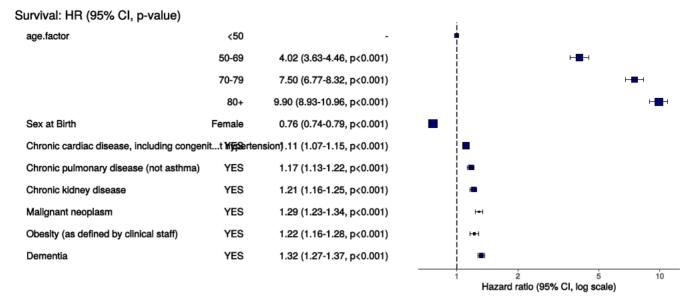


Figure 15b - Multivariable Cox proportional hazards model (age, sex, comorbidities only)



ROC = 0.7158183

Figure 16 - Predictions calibration plot

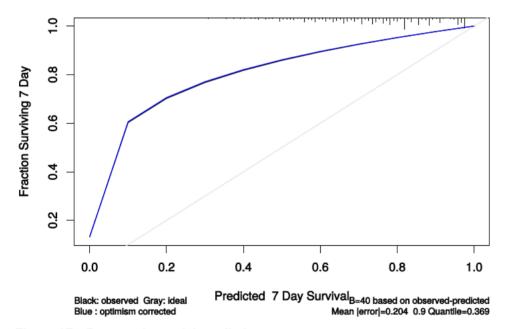
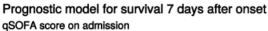


Figure 17 - Prognostic model predictions

Again, for demonstration of methods.



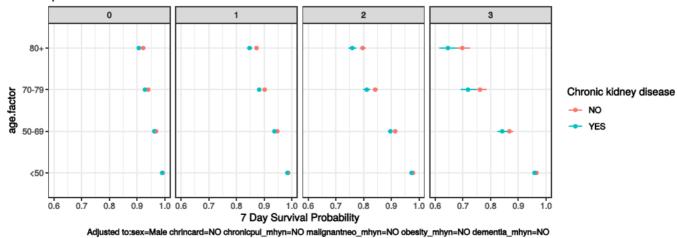


Figure 18 - Death by severity (NEWS) on admission

Number of deaths by NEWS score at admission

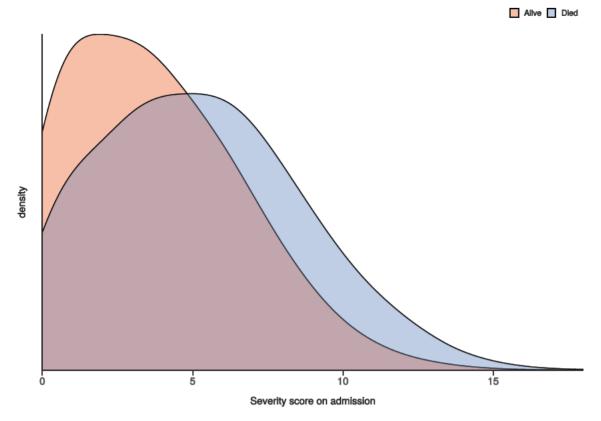


Figure 19 - Death by severity (NEWS) on admission stratified by age

Number of deaths by NEWS score at admission Stratified by age

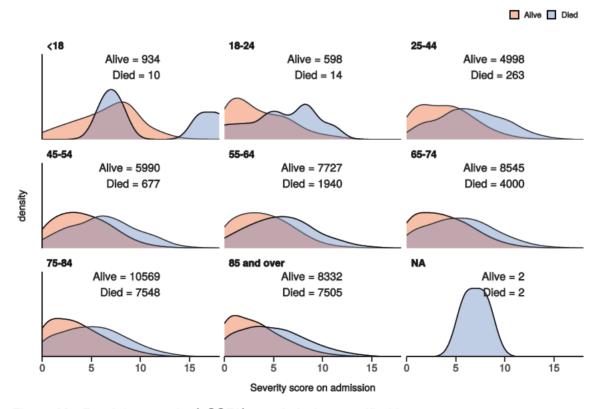
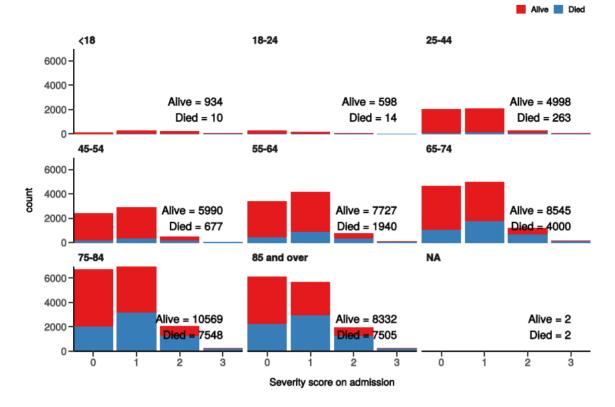


Figure 20 - Death by severity (qSOFA) on admission stratified by age



Healthcare workers

| Employed as a healthcare worker? | | NO | YES | р |
|----------------------------------|--------------|--------------|-------------|--------|
| Total N (%) | | 63604 (95.0) | 3348 (5.0) | |
| NEWS score on admission | Median (IQR) | 4.0 (4.0) | 4.0 (4.0) | 0.010 |
| Death | No | 39868 (66.5) | 2963 (92.7) | <0.001 |
| | Yes | 20068 (33.5) | 232 (7.3) | |

Admission (detail)

Table 1

| label | levels | all |
|----------------------------------|---------------|---------------|
| Total N (%) | | 77676 (100.0) |
| age | Mean (SD) | 70.2 (19.8) |
| Sex at Birth | Male | 41917 (54.0) |
| | Female | 32740 (42.1) |
| | Not specified | 140 (0.2) |
| | (Missing) | 2879 (3.7) |
| Employed as a healthcare worker? | YES | 3348 (4.3) |
| | NO | 63604 (81.9) |
| | N/A | 7212 (9.3) |
| | (Missing) | 3512 (4.5) |

| Employed in a microbiology laboratory? YES 91 (0.1) NO 285875 (33.3) NA 3006 (3.8) NA 3006 (3.8) 48644 (62.8) Onset to admission (days) Mean (SD) 5.5 (482.2) Transfer from other facility? Yes other facility is a study site 373 (4.8) No 62768 (80.8) NVA 3728 (4.0) Missing 6139 (7.9) 6139 (7.9) Tavel in the 14 days prior to first symptom onset? Yes 825 (1.1) NA 4479 (5.8) 4479 (5.8) Missing 4800 (7.9) 4800 (7.9) If YES, state location: Country Afgeria 0.0 Missing 4800 (7.9) 4800 (7.9) Mageria 0.0 0.0 Afgeria 0.0 0.0 Afgeria 0.0 0.0 Agertina 1.0 0.0 Australia 0.0 0.0 Australia 2.0 0.0 Australia 2.0 0.0 Bahranas (The) 0.0 <td< th=""><th>label</th><th>levels</th><th>all</th></td<> | label | levels | all |
|--|---|--|--------------|
| N/A 3006 (3.5) (Missing) 48844 (82.6) Onset to admission (days) Mean (SD) 5.5 (1482.3) Transfer from other facility? Yes-other facility is a study site 1910 (2.5) Yes-other facility is not a study site 3731 (4.8) No 62768 (80.8) N/A N/A 3128 (4.0) Missing) 6193 (7.9) Tavel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (28.1) N/A 4479 (5.8) Missing) 48805 (84.1) Missing) 48805 (84.1) If YES, state location: Country Afghanistan 0 (0.0) Algeria 0 (0.0) 0.0 Algeria 0 (0.0) 0.0 Andorra 1 (0.0) 0.0 Angertina 1 (0.0) 0.0 Armenia 0 (0.0) 0.0 Armenia 0 (0.0) 0.0 Azerbaijan 2 (0.0) 0.0 Bahramas (The) 6 (0.0) 0.0 Barbados 11 (0.0) | Employed in a microbiology laboratory? | YES | 91 (0.1) |
| (Missing) 48644 (e2.6) Onset to admission (days) Mean (SD) 5.5 (1462.3) Transfer from other facility? Yes-other facility is a study site 11910 (2.5) Yes-other facility is not a study site 3731 (4.8) No 62768 (e0.8) NA 3128 (4.0) (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) N/A 4479 (5.8) If YES, state location: Country Afghanistan 0 (0.0) Algeria 0 (0.0) 0 (0.0) Andora 1 (0.0) 0 (0.0) Argentina 1 (0.0) 0 (0.0) Armenia 0 (0.0) 0 (0.0) Australia 3 (0.0) 0 (0.0) Australia 3 (0.0) 0 (0.0) Bahrasin 0 (0.0) | | NO | 25875 (33.3) |
| Onset to admission (days) Mean (SD) 5.5 (1462.3) Transfer from other facility? Yes-other facility is a study site 1910 (2.5) Yes-other facility is not a study site 3731 (4.8) No 62768 (80.8) N/A 3128 (4.0) (Missing) 6199 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (20.1) No 22567 (20.1) N/A 4479 (5.8) 4479 (5.8) 4479 (5.8) If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) 43 (6.0) 0 (0.0) Angeria 0 (0.0) 0 (0.0) 0 (0.0) Angeria 0 (0.0) 0 (0.0) 0 (0.0) Angeria 0 (0.0) 0 (0.0) 0 (0.0) Artiqua and Barbuda 4 (0.0) 0 (0.0) Australia 3 (0.0) 0 (0.0) Australia 3 (0.0) 0 (0.0) Australia 2 (0.0) 0 (0.0) Bahranes (The) 6 (0.0) 0 (0.0) | | N/A | 3066 (3.9) |
| Transfer from other facility? Yes-other facility is not a study site 1910 (2.5) Yes-other facility is not a study site 3731 (4.8) No 62768 (80.8) NIA 3128 (4.0) (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) NA 4479 (5.8) (Missing) 49805 (64.1) 4479 (5.8) (Missing) 49805 (64.1) 49805 (64.1) If YES, state location: Country Alghanistan 0.00 Algeria 0.00 0.00 Andorra 1.00 0.00 Andorra 1.00 0.00 Artigua and Barbuda 4.00 0.00 Artigua and Barbuda 4.00 0.00 Artigua 0.00 0.00 Austria 0.00 0.00 Austria 2.00 0.00 Bahrain 0.00 0.00 Bahrain 0.00 0.00 Belze 0.00 0.00 | | (Missing) | 48644 (62.6) |
| Yes-other facility is not a study site 3731 (4.8) No 62768 (80.8) NVA 3128 (4.0) (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) NVA 4479 (5.8) (Missing) 48905 (64.1) If YES, state location: Country Algeria 0 (0.0) Alperia 0 (0.0) Algeria 0 (0.0) Andorra 1 (0.0) Angela 0 (0.0) Angela 0 (0.0) Angela 0 (0.0) Argentina 1 (0.0) Angentina 1 (0.0) Armenia 0 (0.0) Anstria 2 (0.0) Austria 2 (0.0) Anstria 2 (0.0) Bahranas (The) 6 (0.0) Bahrana (The) 6 (0.0) Barbados 118 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Benin 0 (0.0) Benin 0 (0.0) | Onset to admission (days) | Mean (SD) | 5.5 (1462.3) |
| No 62768 (80.8) NVA 3128 (4.0) (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) NVA 4479 (5.8) (Missing) 49805 (64.1) MVA 4479 (5.8) 4 Medical Prior (Missing) 49805 (64.1) MVA 4479 (5.8) MVA 4 Missing) 49805 (64.1) MVA 4479 (5.8) MVA 4470 (5.8) MVA 4470 (5.8) MVA 4470 (5.8) | Transfer from other facility? | Yes-other facility is a study site | 1910 (2.5) |
| N/A 3128 (4.0) (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) NA 4479 (5.8) If YES, state location: Country Alganistan 0 (0.0) Albania 0 (0.0) Algania 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Angola 0 (0.0) Angola 0 (0.0) Angola Angola 0 (0.0) Angola Angola 0 (0.0) Angola Algania 1 (0.0) Angola Angola 0 (0.0) Angola Algania 1 (0.0) Angola Algania | | Yes-other facility is not a study site | 3731 (4.8) |
| (Missing) 6139 (7.9) Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22867 (29.1) NJA 4479 (5.8) NIA 4479 (5.8) 49805 (64.1) If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) 0.00 Algeria 0 (0.0) 0.00 Angola 0 (0.0) 0.00 Argentina 1 (0.0) 0.00 Armenia 0 (0.0) 0.00 Australia 3 (0.0) 0.00 Australia 3 (0.0) 0.00 Azerbaijan 2 (0.0) 0.00 Bahrans (The) 6 (0.0) 0.00 Barpladesh 1 (0.0) 0.00 Belarus 0 (0.0) 0.00 Belgium 4 (0.0) 0.00 Belize 0 (0.0) 0.00 Behin 0 (0.0) 0.00 Behin 0 (0.0) 0.00 Behint 0 (0.0) 0.00 | | No | 62768 (80.8) |
| Travel in the 14 days prior to first symptom onset? Yes 825 (1.1) No 22567 (29.1) N/A 4479 (5.8) (Missing) 49805 (64.1) If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) Algeria 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Auba 0 (0.0) Australia 3 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belanus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | N/A | 3128 (4.0) |
| No 22567 (29.1) N/A 4479 (5.8) (Missing) 49805 (64.1) If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) 0.00 Algeria 0 (0.0) 0.00 Andorra 1 (0.0) 0.00 Angola 0 (0.0) 0.00 Argentina 1 (0.0) 0.00 Aurba 0 (0.0) 0.00 Australia 3 (0.0) 0.00 Azerbaijan 2 (0.0) Bahrain 0 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Benin 0 (0.0) Buttan 0 (0.0) Buttan 0 (0.0) | | (Missing) | 6139 (7.9) |
| N/A 4479 (s.8) (Missing) 49805 (64.1) If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) Algeria 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Antigua and Barbuda 4 (0.0) Armenia 1 (0.0) Armenia 0 (0.0) Armenia 0 (0.0) Australia 3 (0.0) Australia 2 (0.0) Azerbaijan 2 (0.0) Azerbaijan 6 (0.0) Bahamas (The) 6 (0.0) Benarian 0 (0.0) Berados 118 (0.0) Belarus 0 (0.0) Belarus 0 (0.0) Belarus 0 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) Benin 0 (0.0) | Travel in the 14 days prior to first symptom onset? | Yes | 825 (1.1) |
| Missing Mass Mass | | No | 22567 (29.1) |
| If YES, state location: Country Afghanistan 0 (0.0) Albania 0 (0.0) Algeria 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Artigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | N/A | 4479 (5.8) |
| Albania 0 (0.0) Algeria 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Antigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Australia 3 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Belgize 0 (0.0) Benin 0 (0.0) | | (Missing) | 49805 (64.1) |
| Algeria 0 (0.0) Andorra 1 (0.0) Angola 0 (0.0) Antigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Barbados 18 (0.0) Belize 0 (0.0) Belize 0 (0.0) Belize 0 (0.0) Belize 0 (0.0) Benin 0 (0.0) | If YES, state location: Country | Afghanistan | 0 (0.0) |
| Andorra 1 (0.0) Angola 0 (0.0) Antigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Baharnas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Belize 0 (0.0) | | Albania | 0 (0.0) |
| Angola 0 (0.0) Antigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Benin 0 (0.0) | | Algeria | 0 (0.0) |
| Antigua and Barbuda 4 (0.0) Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Beljize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Andorra | 1 (0.0) |
| Argentina 1 (0.0) Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaljan 2 (0.0) Bahramas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Belarus 0 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Angola | 0 (0.0) |
| Armenia 0 (0.0) Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Antigua and Barbuda | 4 (0.0) |
| Aruba 0 (0.0) Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Argentina | 1 (0.0) |
| Australia 3 (0.0) Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Armenia | 0 (0.0) |
| Austria 21 (0.0) Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Aruba | 0 (0.0) |
| Azerbaijan 2 (0.0) Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Australia | 3 (0.0) |
| Bahamas (The) 6 (0.0) Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Austria | 21 (0.0) |
| Bahrain 0 (0.0) Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Azerbaijan | 2 (0.0) |
| Bangladesh 1 (0.0) Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Bahamas (The) | 6 (0.0) |
| Barbados 18 (0.0) Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Bahrain | 0 (0.0) |
| Belarus 0 (0.0) Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Bangladesh | 1 (0.0) |
| Belgium 4 (0.0) Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Barbados | 18 (0.0) |
| Belize 0 (0.0) Benin 0 (0.0) Bhutan 0 (0.0) | | Belarus | 0 (0.0) |
| Benin 0 (0.0) Bhutan 0 (0.0) | | Belgium | 4 (0.0) |
| Bhutan 0 (0.0) | | Belize | 0 (0.0) |
| | | Benin | 0 (0.0) |
| Bolivia 0 (0.0) | | Bhutan | 0 (0.0) |
| | | Bolivia | 0 (0.0) |

| label | levels | all |
|-------|--------------------------|----------|
| | Bosnia and Herzegovina | 0 (0.0) |
| | Botswana | 0 (0.0) |
| | Brazil | 3 (0.0) |
| | Brunei | 0 (0.0) |
| | Bulgaria | 3 (0.0) |
| | Burkina Faso | 0 (0.0) |
| | Burma | 0 (0.0) |
| | Burundi | 0 (0.0) |
| | Cambodia | 1 (0.0) |
| | Cameroon | 1 (0.0) |
| | Canada | 2 (0.0) |
| | Cabo Verde | 1 (0.0) |
| | Central African Republic | 1 (0.0) |
| | Chad | 0 (0.0) |
| | Chile | 1 (0.0) |
| | China | 3 (0.0) |
| | Colombia | 0 (0.0) |
| | Comoros | 0 (0.0) |
| | Congo (Republic of the) | 0 (0.0) |
| | Costa Rica | 0 (0.0) |
| | Cote divoire | 0 (0.0) |
| | Croatia | 0 (0.0) |
| | Cuba | 1 (0.0) |
| | Curacao | 0 (0.0) |
| | Cyprus | 26 (0.0) |
| | Czechia | 2 (0.0) |
| | Denmark | 1 (0.0) |
| | Djibouti | 0 (0.0) |
| | Dominica | 0 (0.0) |
| | Dominican Republic | 3 (0.0) |
| | Ecuador | 0 (0.0) |
| | Egypt | 9 (0.0) |
| | El Salvador | 0 (0.0) |
| | Equatorial Guinea | 0 (0.0) |
| | Eritrea | 0 (0.0) |
| | Estonia | 0 (0.0) |
| | | |

| label | levels | all |
|-------|---------------|----------|
| | Ethiopia | 0 (0.0) |
| | Fji | 0 (0.0) |
| | Finland | 0 (0.0) |
| | France | 35 (0.0) |
| | Gabon | 0 (0.0) |
| | Gambia (The) | 0 (0.0) |
| | Georgia | 0 (0.0) |
| | Germany | 8 (0.0) |
| | Ghana | 2 (0.0) |
| | Greece | 2 (0.0) |
| | Grenada | 0 (0.0) |
| | Guatemala | 0 (0.0) |
| | Guinea | 0 (0.0) |
| | Guinea-Bissau | 0 (0.0) |
| | Guyana | 0 (0.0) |
| | Haiti | 0 (0.0) |
| | Holy See | 0 (0.0) |
| | Honduras | 0 (0.0) |
| | Hong Kong | 1 (0.0) |
| | Hungary | 4 (0.0) |
| | Iceland | 1 (0.0) |
| | India | 11 (0.0) |
| | Indonesia | 1 (0.0) |
| | Iran | 6 (0.0) |
| | Iraq | 0 (0.0) |
| | Ireland | 8 (0.0) |
| | Israel | 0 (0.0) |
| | Italy | 92 (0.1) |
| | Jamaica | 3 (0.0) |
| | Japan | 6 (0.0) |
| | Jordan | 1 (0.0) |
| | Kazakhstan | 0 (0.0) |
| | Kenya | 1 (0.0) |
| | Kiribati | 0 (0.0) |
| | Korea (South) | 0 (0.0) |
| | Kosovo | 0 (0.0) |
| | | |

| label | levels | all |
|-------|------------------|---------|
| | Kuwait | 1 (0.0) |
| | Kyrgyzstan | 0 (0.0) |
| | Laos | 0 (0.0) |
| | Latvia | 0 (0.0) |
| | Lebanon | 0 (0.0) |
| | Lesotho | 0 (0.0) |
| | Liberia | 0 (0.0) |
| | Libya | 0 (0.0) |
| | Liechtenstein | 0 (0.0) |
| | Lithuania | 0 (0.0) |
| | Luxembourg | 0 (0.0) |
| | Macau | 0 (0.0) |
| | Macedonia | 0 (0.0) |
| | Madagascar | 1 (0.0) |
| | Malawi | 0 (0.0) |
| | Malaysia | 4 (0.0) |
| | Maldives | 1 (0.0) |
| | Mali | 0 (0.0) |
| | Malta | 1 (0.0) |
| | Marshall Islands | 0 (0.0) |
| | Mauritania | 0 (0.0) |
| | Mauritius | 1 (0.0) |
| | Mexico | 4 (0.0) |
| | Micronesia | 0 (0.0) |
| | Moldova | 0 (0.0) |
| | Monaco | 0 (0.0) |
| | Mongolia | 0 (0.0) |
| | Montenegro | 0 (0.0) |
| | Morocco | 4 (0.0) |
| | Mozambique | 0 (0.0) |
| | Namibia | 0 (0.0) |
| | Nauru | 0 (0.0) |
| | Nepal | 3 (0.0) |
| | Netherlands | 9 (0.0) |
| | New Zealand | 3 (0.0) |
| | Nicaragua | 0 (0.0) |
| | | |

| label | levels | all |
|-------|----------------------------------|----------|
| | Niger | 0 (0.0) |
| | Nigeria | 2 (0.0) |
| | North Korea | 0 (0.0) |
| | Norway | 2 (0.0) |
| | Oman | 0 (0.0) |
| | Pakistan | 10 (0.0) |
| | Palau | 0 (0.0) |
| | Palestinian Territories | 0 (0.0) |
| | Panama | 1 (0.0) |
| | Papua New Guinea | 0 (0.0) |
| | Paraguay | 0 (0.0) |
| | Peru | 0 (0.0) |
| | Philippines | 5 (0.0) |
| | Poland | 3 (0.0) |
| | Portugal | 22 (0.0) |
| | Qatar | 1 (0.0) |
| | Romania | 6 (0.0) |
| | Russia | 0 (0.0) |
| | Rwanda | 0 (0.0) |
| | Saint Kitts and Nevis | 0 (0.0) |
| | Saint Lucia | 0 (0.0) |
| | Saint Vincent and the Grenadines | 0 (0.0) |
| | Samoa | 0 (0.0) |
| | San Marino | 0 (0.0) |
| | Sao Tome and Principe | 0 (0.0) |
| | Saudi Arabia | 2 (0.0) |
| | Senegal | 0 (0.0) |
| | Serbia | 0 (0.0) |
| | Seychelles | 0 (0.0) |
| | Sierra Leone | 1 (0.0) |
| | Singapore | 4 (0.0) |
| | Sint Maarten | 0 (0.0) |
| | Slovakia | 1 (0.0) |
| | Slovenia | 1 (0.0) |
| | Solomon Islands | 0 (0.0) |
| | Somalia | 2 (0.0) |
| | | |

| label | levels | all |
|-------|----------------------|-----------|
| | South Africa | 10 (0.0) |
| | South Korea | 1 (0.0) |
| | South Sudan | 0 (0.0) |
| | Spain | 205 (0.3) |
| | Sri Lanka | 0 (0.0) |
| | Sudan | 0 (0.0) |
| | Suriname | 0 (0.0) |
| | Swaziland | 1 (0.0) |
| | Sweden | 0 (0.0) |
| | Switzerland | 8 (0.0) |
| | Syria | 0 (0.0) |
| | Taiwan | 0 (0.0) |
| | Tajikistan | 0 (0.0) |
| | Tanzania | 0 (0.0) |
| | Thailand | 8 (0.0) |
| | Timor-Leste | 0 (0.0) |
| | Togo | 0 (0.0) |
| | Tonga | 0 (0.0) |
| | Trinidad and Tobago | 0 (0.0) |
| | Tunisia | 0 (0.0) |
| | Turkey | 8 (0.0) |
| | Turkmenistan | 0 (0.0) |
| | Tuvalu | 0 (0.0) |
| | Uganda | 0 (0.0) |
| | Ukraine | 0 (0.0) |
| | United Arab Emirates | 10 (0.0) |
| | United Kingdom | 116 (0.1) |
| | United States | 32 (0.0) |
| | Uruguay | 0 (0.0) |
| | Uzbekistan | 0 (0.0) |
| | Vanuatu | 0 (0.0) |
| | Venezuela | 0 (0.0) |
| | Vietnam | 0 (0.0) |
| | Yemen | 1 (0.0) |
| | Zambia | 0 (0.0) |
| | Zimbabwe | 1 (0.0) |
| | | |

| label | levels | all |
|-------|--------------------------|--------------|
| | (Missing) | 76879 (99.0) |
| | Afghanistan | 0 (0.0) |
| | Albania | 0 (0.0) |
| | Algeria | 1 (0.0) |
| | Andorra | 0 (0.0) |
| | Angola | 0 (0.0) |
| | Antigua and Barbuda | 1 (0.0) |
| | Argentina | 0 (0.0) |
| | Armenia | 0 (0.0) |
| | Aruba | 1 (0.0) |
| | Australia | 3 (0.0) |
| | Austria | 4 (0.0) |
| | Azerbaijan | 0 (0.0) |
| | Bahamas (The) | 0 (0.0) |
| | Bahrain | 0 (0.0) |
| | Bangladesh | 0 (0.0) |
| | Barbados | 2 (0.0) |
| | Belarus | 0 (0.0) |
| | Belgium | 0 (0.0) |
| | Belize | 0 (0.0) |
| | Benin | 0 (0.0) |
| | Bhutan | 0 (0.0) |
| | Bolivia | 0 (0.0) |
| | Bosnia and Herzegovina | 0 (0.0) |
| | Botswana | 0 (0.0) |
| | Brazil | 0 (0.0) |
| | Brunei | 0 (0.0) |
| | Bulgaria | 2 (0.0) |
| | Burkina Faso | 0 (0.0) |
| | Burma | 0 (0.0) |
| | Burundi | 0 (0.0) |
| | Cambodia | 0 (0.0) |
| | Cameroon | 0 (0.0) |
| | Canada | 2 (0.0) |
| | Cabo Verde | 0 (0.0) |
| | Central African Republic | 0 (0.0) |
| | | |

| label | levels | all |
|-------|-------------------------|---------|
| | Chad | 0 (0.0) |
| | Chile | 0 (0.0) |
| | China | 0 (0.0) |
| | Colombia | 0 (0.0) |
| | Comoros | 0 (0.0) |
| | Congo (Republic of the) | 0 (0.0) |
| | Costa Rica | 0 (0.0) |
| | Cote divoire | 0 (0.0) |
| | Croatia | 0 (0.0) |
| | Cuba | 0 (0.0) |
| | Curacao | 0 (0.0) |
| | Cyprus | 3 (0.0) |
| | Czechia | 1 (0.0) |
| | Denmark | 0 (0.0) |
| | Djibouti | 0 (0.0) |
| | Dominica | 0 (0.0) |
| | Dominican Republic | 0 (0.0) |
| | Ecuador | 0 (0.0) |
| | Egypt | 2 (0.0) |
| | El Salvador | 0 (0.0) |
| | Equatorial Guinea | 0 (0.0) |
| | Eritrea | 0 (0.0) |
| | Estonia | 0 (0.0) |
| | Ethiopia | 0 (0.0) |
| | Fji | 0 (0.0) |
| | Finland | 0 (0.0) |
| | France | 9 (0.0) |
| | Gabon | 0 (0.0) |
| | Gambia (The) | 0 (0.0) |
| | Georgia | 0 (0.0) |
| | Germany | 3 (0.0) |
| | Ghana | 0 (0.0) |
| | Greece | 0 (0.0) |
| | Grenada | 0 (0.0) |
| | Guatemala | 0 (0.0) |
| | Guinea | 0 (0.0) |
| | | |

| label | levels | all |
|-------|---------------|----------|
| | Guinea-Bissau | 0 (0.0) |
| | Guyana | 0 (0.0) |
| | Haiti | 0 (0.0) |
| | Holy See | 0 (0.0) |
| | Honduras | 0 (0.0) |
| | Hong Kong | 0 (0.0) |
| | Hungary | 0 (0.0) |
| | Iceland | 0 (0.0) |
| | India | 3 (0.0) |
| | Indonesia | 1 (0.0) |
| | Iran | 0 (0.0) |
| | Iraq | 0 (0.0) |
| | Ireland | 1 (0.0) |
| | Israel | 1 (0.0) |
| | Italy | 16 (0.0) |
| | Jamaica | 1 (0.0) |
| | Japan | 0 (0.0) |
| | Jordan | 0 (0.0) |
| | Kazakhstan | 0 (0.0) |
| | Кепуа | 0 (0.0) |
| | Kiribati | 0 (0.0) |
| | Korea (South) | 0 (0.0) |
| | Kosovo | 0 (0.0) |
| | Kuwait | 0 (0.0) |
| | Kyrgyzstan | 0 (0.0) |
| | Laos | 0 (0.0) |
| | Latvia | 0 (0.0) |
| | Lebanon | 0 (0.0) |
| | Lesotho | 0 (0.0) |
| | Liberia | 0 (0.0) |
| | Libya | 0 (0.0) |
| | Liechtenstein | 0 (0.0) |
| | Lithuania | 0 (0.0) |
| | Luxembourg | 0 (0.0) |
| | Macau | 0 (0.0) |
| | Macedonia | 0 (0.0) |
| | | |

| label | levels | all |
|-------|-------------------------|---------|
| | Madagascar | 0 (0.0) |
| | Malawi | 0 (0.0) |
| | Malaysia | 0 (0.0) |
| | Maldives | 0 (0.0) |
| | Mali | 0 (0.0) |
| | Malta | 0 (0.0) |
| | Marshall Islands | 0 (0.0) |
| | Mauritania | 0 (0.0) |
| | Mauritius | 0 (0.0) |
| | Mexico | 0 (0.0) |
| | Micronesia | 0 (0.0) |
| | Moldova | 0 (0.0) |
| | Monaco | 0 (0.0) |
| | Mongolia | 0 (0.0) |
| | Montenegro | 0 (0.0) |
| | Morocco | 1 (0.0) |
| | Mozambique | 0 (0.0) |
| | Namibia | 0 (0.0) |
| | Nauru | 0 (0.0) |
| | Nepal | 0 (0.0) |
| | Netherlands | 2 (0.0) |
| | New Zealand | 0 (0.0) |
| | Nicaragua | 0 (0.0) |
| | Niger | 0 (0.0) |
| | Nigeria | 0 (0.0) |
| | North Korea | 0 (0.0) |
| | Norway | 0 (0.0) |
| | Oman | 0 (0.0) |
| | Pakistan | 1 (0.0) |
| | Palau | 0 (0.0) |
| | Palestinian Territories | 0 (0.0) |
| | Panama | 0 (0.0) |
| | Papua New Guinea | 0 (0.0) |
| | Paraguay | 0 (0.0) |
| | Peru | 0 (0.0) |
| | Philippines | 0 (0.0) |
| | | |

| label | levels | all |
|-------|----------------------------------|----------|
| | Poland | 0 (0.0) |
| | Portugal | 2 (0.0) |
| | Qatar | 1 (0.0) |
| | Romania | 0 (0.0) |
| | Russia | 0 (0.0) |
| | Rwanda | 0 (0.0) |
| | Saint Kitts and Nevis | 0 (0.0) |
| | Saint Lucia | 0 (0.0) |
| | Saint Vincent and the Grenadines | 0 (0.0) |
| | Samoa | 0 (0.0) |
| | San Marino | 0 (0.0) |
| | Sao Tome and Principe | 0 (0.0) |
| | Saudi Arabia | 0 (0.0) |
| | Senegal | 0 (0.0) |
| | Serbia | 0 (0.0) |
| | Seychelles | 0 (0.0) |
| | Sierra Leone | 0 (0.0) |
| | Singapore | 0 (0.0) |
| | Sint Maarten | 0 (0.0) |
| | Slovakia | 0 (0.0) |
| | Slovenia | 0 (0.0) |
| | Solomon Islands | 0 (0.0) |
| | Somalia | 0 (0.0) |
| | South Africa | 1 (0.0) |
| | South Korea | 0 (0.0) |
| | South Sudan | 0 (0.0) |
| | Spain | 21 (0.0) |
| | Sri Lanka | 0 (0.0) |
| | Sudan | 0 (0.0) |
| | Suriname | 0 (0.0) |
| | Swaziland | 0 (0.0) |
| | Sweden | 0 (0.0) |
| | Switzerland | 1 (0.0) |
| | Syria | 0 (0.0) |
| | Taiwan | 0 (0.0) |
| | Tajikistan | 0 (0.0) |
| | | |

| label | levels | all |
|---|-----------------------------------|--------------|
| | Tanzania | 0 (0.0) |
| | Thailand | 1 (0.0) |
| | Timor-Leste | 0 (0.0) |
| | Togo | 0 (0.0) |
| | Tonga | 0 (0.0) |
| | Trinidad and Tobago | 0 (0.0) |
| | Tunisia | 0 (0.0) |
| | Turkey | 4 (0.0) |
| | Turkmenistan | 0 (0.0) |
| | Tuvalu | 0 (0.0) |
| | Uganda | 0 (0.0) |
| | Ukraine | 0 (0.0) |
| | United Arab Emirates | 0 (0.0) |
| | United Kingdom | 1 (0.0) |
| | United States | 4 (0.0) |
| | Uruguay | 0 (0.0) |
| | Uzbekistan | 0 (0.0) |
| | Vanuatu | 0 (0.0) |
| | Venezuela | 0 (0.0) |
| | Vietnam | 1 (0.0) |
| | Yemen | 0 (0.0) |
| | Zambia | 0 (0.0) |
| | Zimbabwe | 0 (0.0) |
| | (Missing) | 77578 (99.9) |
| Contact with animals, raw meat or insect bisymptom onset? | Yes | 109 (0.1) |
| | No | 10904 (14.0) |
| | Unknown | 15152 (19.5) |
| | N/A | 1813 (2.3) |
| | (Missing) | 49698 (64.0) |
| If YES, specify the animal/insect | 2 Budgerigars and 26 Cats at home | 1 (0.9) |
| | 2 cats | 1 (0.9) |
| | 2 dogs | 1 (0.9) |
| | Bee Sting | 1 (0.9) |
| | Bird (pet) | 1 (0.9) |
| | Birds at home | 1 (0.9) |
| | Budgie | 1 (0.9) |
| | | |

| label | levels | all |
|-------|--|-----------|
| | budgies | 1 (0.9) |
| | cat | 3 (2.8) |
| | Cat | 1 (0.9) |
| | CAT | 1 (0.9) |
| | Cat (pet) | 1 (0.9) |
| | Cat / Dog | 1 (0.9) |
| | Cat, Dog (pets) | 1 (0.9) |
| | cats | 3 (2.8) |
| | Cats | 1 (0.9) |
| | chicken & beef | 1 (0.9) |
| | Chickens | 2 (1.9) |
| | cows | 1 (0.9) |
| | Cows, Rabbits, Pigs, Goats | 1 (0.9) |
| | DAILY CONTACT WITH DOMESTIC PET CAT | 1 (0.9) |
| | dog | 6 (5.6) |
| | Dog | 12 (11.2) |
| | DOG | 2 (1.9) |
| | DOG FAMILY PET | 1 (0.9) |
| | Dog, domestic animla living in their home. | 1 (0.9) |
| | Dogs | 1 (0.9) |
| | dogs and cats | 1 (0.9) |
| | Dogs at home | 1 (0.9) |
| | domestic | 1 (0.9) |
| | Domestic pet dog | 1 (0.9) |
| | DOMESTIC ANIMAL | 2 (1.9) |
| | Domestic animal and faeces/nest | 1 (0.9) |
| | domestic animal living in his home | 1 (0.9) |
| | domestic animals | 1 (0.9) |
| | Domestic animals living in his/her home | 1 (0.9) |
| | Domestic Animals living in his/her home | 1 (0.9) |
| | Domestic animals living in home | 1 (0.9) |
| | Domestic cats | 1 (0.9) |
| | domestic dog | 1 (0.9) |
| | domestic Dog | 1 (0.9) |
| | Domestic Per (dog) | 1 (0.9) |
| | Domestic pest (cats) | 1 (0.9) |
| | | |

| label | levels | all |
|-------|--------------------------------|---------|
| | Domestic Pet | 5 (4.7) |
| | Domestic Pet (Dog) | 6 (5.6) |
| | Domestic pet cat | 1 (0.9) |
| | Domestic pet Dog | 1 (0.9) |
| | Domestic pet, dog | 1 (0.9) |
| | Domestic pets | 1 (0.9) |
| | Domestic Pets | 2 (1.9) |
| | Domestic pets (dog) | 1 (0.9) |
| | Domestic Pets Cat and Dog | 1 (0.9) |
| | FARM ANIMALS - LAMBS | 1 (0.9) |
| | Farm animals, cattle | 1 (0.9) |
| | Guinea Pig | 1 (0.9) |
| | HORSES | 1 (0.9) |
| | Livestock including pigs | 1 (0.9) |
| | pet dog | 2 (1.9) |
| | Pet dog | 2 (1.9) |
| | Pet dog -ongoing daily contact | 1 (0.9) |
| | pet dog at home | 1 (0.9) |
| | Pet dog ongoing daily contact | 1 (0.9) |
| | Prepared raw chicken | 1 (0.9) |
| | Rabbits | 1 (0.9) |
| | raw chicken | 1 (0.9) |
| | Raw Chicken | 1 (0.9) |
| | Rodent | 1 (0.9) |
| | she has a cat | 1 (0.9) |
| | SHEEP | 1 (0.9) |
| | Sheep & Cattle | 1 (0.9) |
| | Two cats | 1 (0.9) |
| | unknown | 1 (0.9) |

Symptoms (detail)

Table 2

| Stratified: all | | all |
|------------------|-----|---------------|
| Total N (%) | | 77676 (100.0) |
| History of fever | YES | 42391 (54.6) |

NO 24914 (32.1)

| | Unknown | 3796 (4.9) |
|------------------------------------|-----------|--------------|
| | (Missing) | 6575 (8.5) |
| Cough | YES | 42827 (55.1) |
| | NO | 24130 (31.1) |
| | Unknown | 4144 (5.3) |
| | (Missing) | 6575 (8.5) |
| Cough: with sputum production | YES | 12699 (16.3) |
| | NO | 45178 (58.2) |
| | Unknown | 13131 (16.9) |
| | (Missing) | 6668 (8.6) |
| Cough: bloody sputum / haemoptysis | YES | 1523 (2.0) |
| | NO | 55434 (71.4) |
| | Unknown | 14034 (18.1) |
| | (Missing) | 6685 (8.6) |
| Sore throat | YES | 4007 (5.2) |
| | NO | 48750 (62.8) |
| | Unknown | 18252 (23.5) |
| | (Missing) | 6667 (8.6) |
| Runny nose (Rhinorrhoea) | YES | 1236 (1.6) |
| | NO | 50737 (65.3) |
| | Unknown | 19027 (24.5) |
| | (Missing) | 6676 (8.6) |
| Ear pain | YES | 239 (0.3) |
| | NO | 51478 (66.3) |
| | Unknown | 19277 (24.8) |
| | (Missing) | 6682 (8.6) |
| Wheezing | YES | 4754 (6.1) |
| | NO | 51248 (66.0) |
| | Unknown | 14998 (19.3) |
| | (Missing) | 6676 (8.6) |
| Chest pain | YES | 7838 (10.1) |
| | NO | 50938 (65.6) |
| | Unknown | 12249 (15.8) |
| | (Missing) | 6651 (8.6) |
| Muscle aches (Myalgia) | YES | 9139 (11.8) |
| | NO | 44302 (57.0) |
| | | |

| | Unknown | 17559 (22.6) |
|-----------------------------------|-----------|--------------|
| | (Missing) | 6676 (8.6) |
| Joint pain (Arthralgia) | YES | 3390 (4.4) |
| | NO | 48394 (62.3) |
| | Unknown | 19190 (24.7) |
| | (Missing) | 6702 (8.6) |
| Fatigue / Malaise | YES | 23715 (30.5) |
| | NO | 33211 (42.8) |
| | Unknown | 14081 (18.1) |
| | (Missing) | 6669 (8.6) |
| Shortness of breath (Dyspnea) | YES | 42302 (54.5) |
| | NO | 23632 (30.4) |
| | Unknown | 5178 (6.7) |
| | (Missing) | 6564 (8.5) |
| Lower chest wall indrawing | YES | 645 (0.8) |
| | NO | 50725 (65.3) |
| | Unknown | 19606 (25.2) |
| | (Missing) | 6700 (8.6) |
| Headache | YES | 5327 (6.9) |
| | NO | 48265 (62.1) |
| | Unknown | 17401 (22.4) |
| | (Missing) | 6683 (8.6) |
| Altered consciousness / confusion | YES | 17777 (22.9) |
| | NO | 43736 (56.3) |
| | Unknown | 9511 (12.2) |
| | (Missing) | 6652 (8.6) |
| Seizures | YES | 991 (1.3) |
| | NO | 57574 (74.1) |
| | Unknown | 12419 (16.0) |
| | (Missing) | 6692 (8.6) |
| Abdominal pain | YES | 6337 (8.2) |
| | NO | 52068 (67.0) |
| | Unknown | 12602 (16.2) |
| | (Missing) | 6669 (8.6) |
| Vomiting / Nausea | YES | 11604 (14.9) |
| | NO | 49032 (63.1) |
| | | |

| | Unknown | 10398 (13.4) |
|------------------------|-----------|--------------|
| | (Missing) | 6642 (8.6) |
| Diarrhoea | YES | 10539 (13.6) |
| | NO | 49753 (64.1) |
| | Unknown | 10731 (13.8) |
| | (Missing) | 6653 (8.6) |
| Conjunctivitis | YES | 233 (0.3) |
| | NO | 54373 (70.0) |
| | Unknown | 16382 (21.1) |
| | (Missing) | 6688 (8.6) |
| Skin rash | YES | 899 (1.2) |
| | NO | 54773 (70.5) |
| | Unknown | 15320 (19.7) |
| | (Missing) | 6684 (8.6) |
| Skin ulcers | YES | 1491 (1.9) |
| | NO | 54338 (70.0) |
| | Unknown | 15157 (19.5) |
| | (Missing) | 6690 (8.6) |
| Lymphadenopathy | YES | 407 (0.5) |
| | NO | 54578 (70.3) |
| | Unknown | 15992 (20.6) |
| | (Missing) | 6699 (8.6) |
| Bleeding (Haemorrhage) | YES | 1113 (1.4) |
| | NO | 56619 (72.9) |
| | Unknown | 13243 (17.0) |
| | (Missing) | 6701 (8.6) |
| If Bleeding (others) | YES | 516 (0.7) |
| | NO | 21353 (27.5) |
| | Unknown | 5733 (7.4) |
| | (Missing) | 50074 (64.5) |
| | | |

Comorbidity (detail)

Table 3

| Stratified: all all |
|---------------------|
|---------------------|

| Total N (%) | | 77676 (100.0) |
|--|-----|---------------|
| Chronic cardiac disease, including congenitt hypertension) | YES | 22169 (28.5) |

| | NO | 45543 (58.6) |
|--|-----------|--------------|
| | Unknown | 3563 (4.6) |
| | (Missing) | 6401 (8.2) |
| Chronic pulmonary disease (not asthma) | YES | 12121 (15.6) |
| | NO | 55288 (71.2) |
| | Unknown | 3851 (5.0) |
| | (Missing) | 6416 (8.3) |
| Asthma (physician diagnosed) | YES | 9188 (11.8) |
| | NO | 58004 (74.7) |
| | Unknown | 4029 (5.2) |
| | (Missing) | 6455 (8.3) |
| Chronic kidney disease | YES | 11946 (15.4) |
| | NO | 55246 (71.1) |
| | Unknown | 4068 (5.2) |
| | (Missing) | 6416 (8.3) |
| Moderate or severe liver disease | YES | 1311 (1.7) |
| | NO | 65193 (83.9) |
| | Unknown | 4726 (6.1) |
| | (Missing) | 6446 (8.3) |
| Mild Liver disease | YES | 1017 (1.3) |
| | NO | 65320 (84.1) |
| | Unknown | 4890 (6.3) |
| | (Missing) | 6449 (8.3) |
| Chronic neurological disorder | YES | 8698 (11.2) |
| | NO | 58151 (74.9) |
| | Unknown | 4385 (5.6) |
| | (Missing) | 6442 (8.3) |
| Malignant neoplasm | YES | 6964 (9.0) |
| | NO | 59711 (76.9) |
| | Unknown | 4563 (5.9) |
| | (Missing) | 6438 (8.3) |
| Chronic hematologic disease | YES | 2959 (3.8) |
| | NO | 63636 (81.9) |
| | Unknown | 4616 (5.9) |
| | (Missing) | 6465 (8.3) |
| AIDS/HIV | YES | 278 (0.4) |
| | | |

| | | a |
|--|-----------|--------------|
| | NO | 65505 (84.3) |
| | Unknown | 5440 (7.0) |
| | (Missing) | 6453 (8.3) |
| Obesity (as defined by clinical staff) | YES | 7180 (9.2) |
| | NO | 53313 (68.6) |
| | Unknown | 10725 (13.8) |
| | (Missing) | 6458 (8.3) |
| Diabetes with complications | YES | 4921 (6.3) |
| | NO | 59981 (77.2) |
| | Unknown | 6323 (8.1) |
| | (Missing) | 6451 (8.3) |
| Diabetes without complications | YES | 10797 (13.9) |
| | NO | 54226 (69.8) |
| | Unknown | 6205 (8.0) |
| | (Missing) | 6448 (8.3) |
| Rheumatologic disorder | YES | 7545 (9.7) |
| | NO | 58890 (75.8) |
| | Unknown | 4783 (6.2) |
| | (Missing) | 6458 (8.3) |
| Dementia | YES | 11451 (14.7) |
| | NO | 55559 (71.5) |
| | Unknown | 4243 (5.5) |
| | (Missing) | 6423 (8.3) |
| Malnutrition | YES | 1754 (2.3) |
| | NO | 60976 (78.5) |
| | Unknown | 8455 (10.9) |
| | (Missing) | 6491 (8.4) |
| Smoking | YES | 3823 (4.9) |
| | NO | 39984 (51.5) |
| | N/K | 24674 (31.8) |
| | (Missing) | 9195 (11.8) |