

Dynamic CO-CIN report to SAGE and NERVTAG (Recent cases)

Dynamic content updated: 2020-09-14 21:14:58.

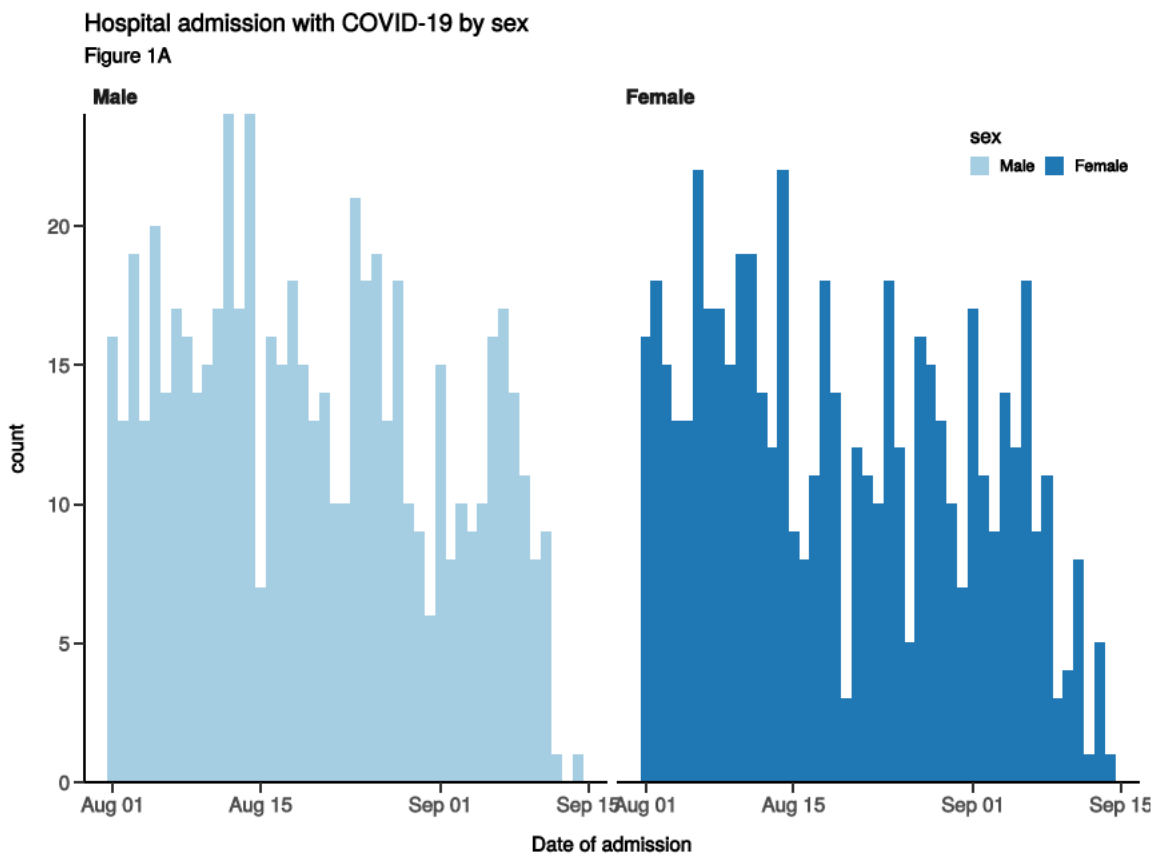
Executive summary

Includes patients admitted after 01 August 2020

There are 1154 patients included in CO-CIN. Of these, 106 patient(s) have died and 119 required ICU. 636 have been discharged home.

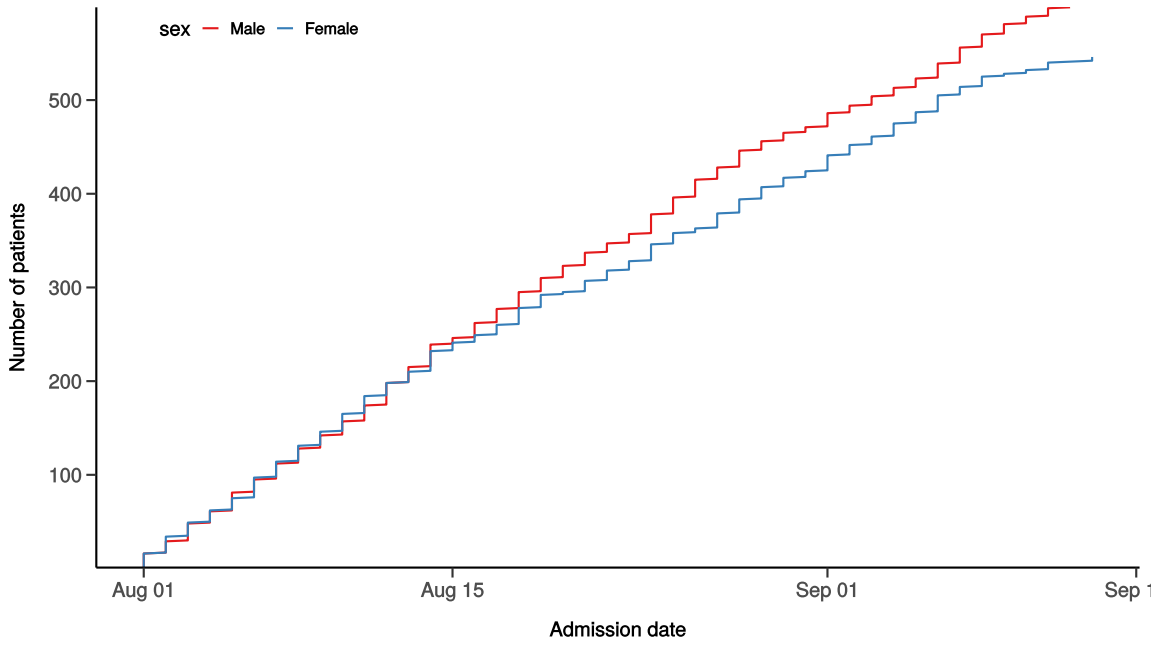
Admission

Figure 1



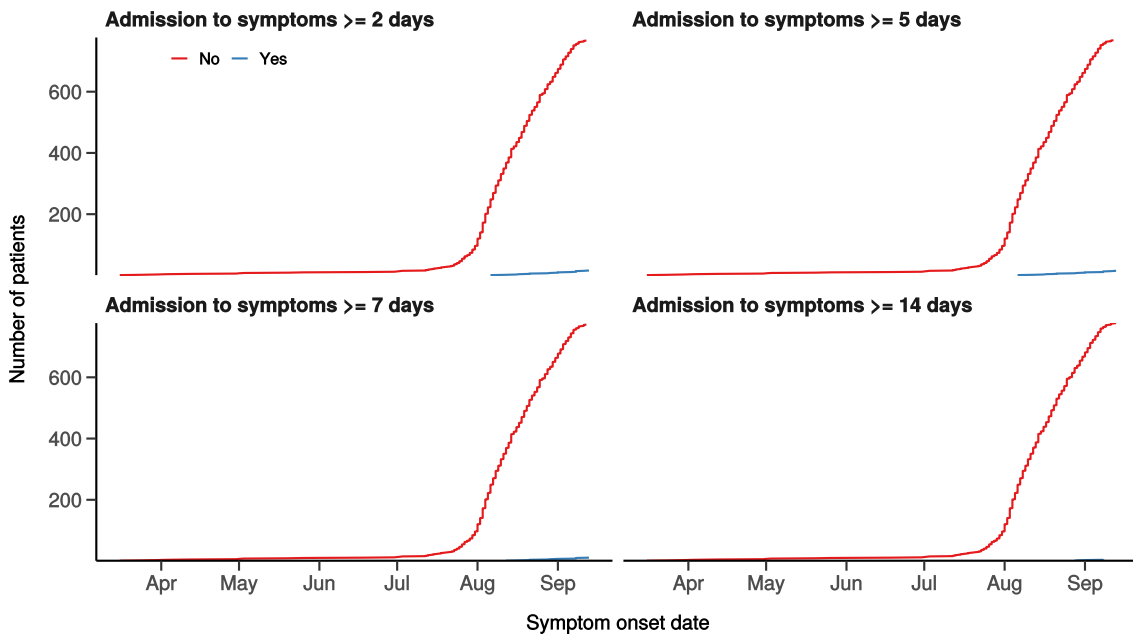
Hospital admission with COVID-19 by sex

Figure 1B



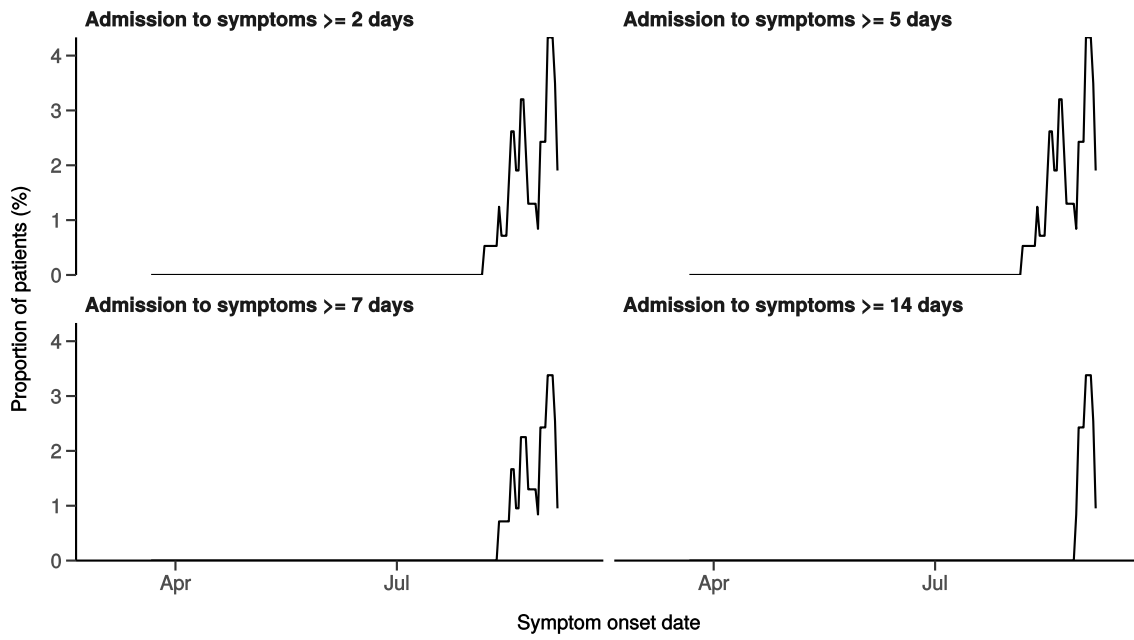
Number with symptom onset occurring after admission to hospital

Figure 1C



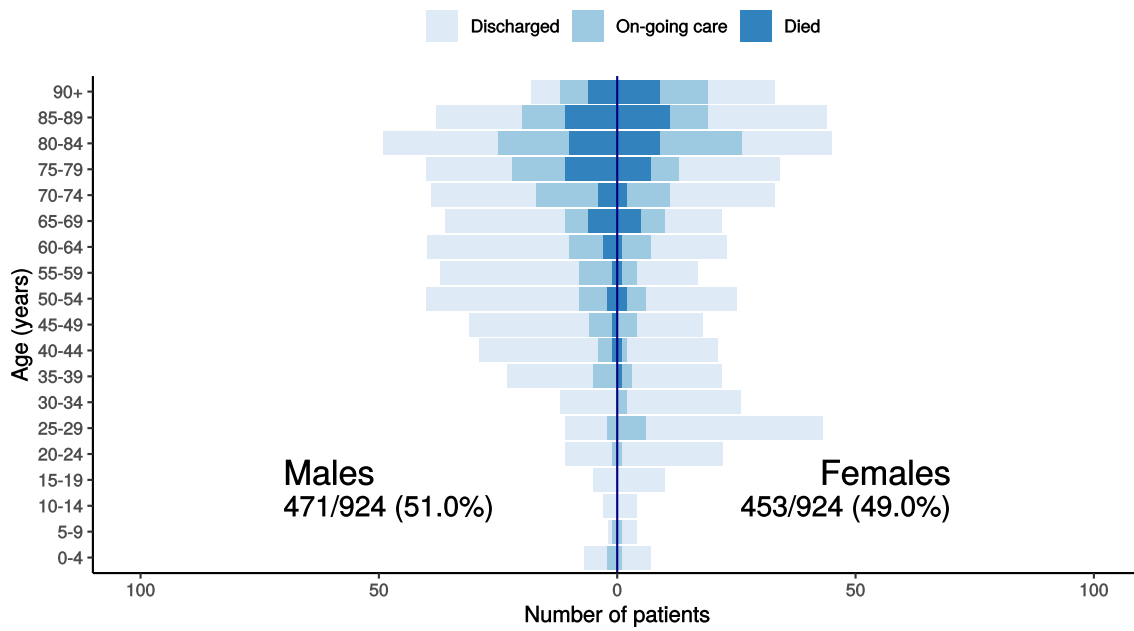
Proportion with symptom onset occurring after hospital admission

Figure 1D - 7-day rolling percentage. n = 783

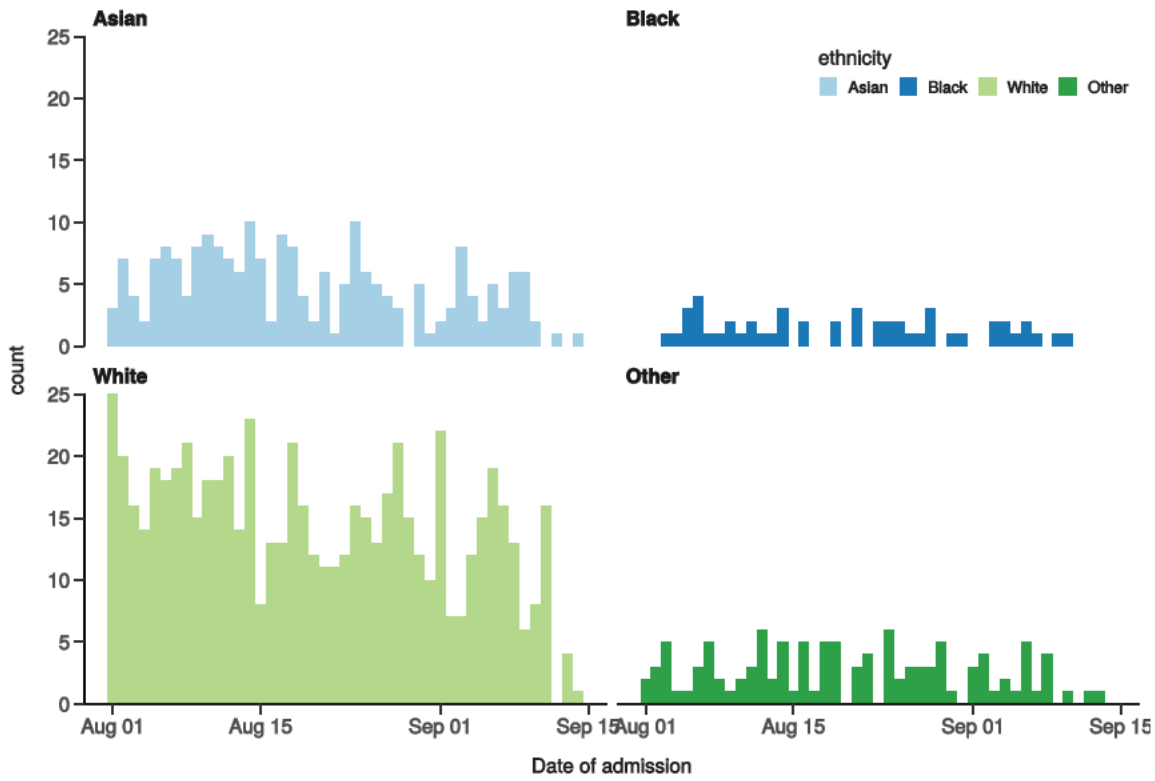


Patients with outcome stratified by age, and sex

Figure 1E



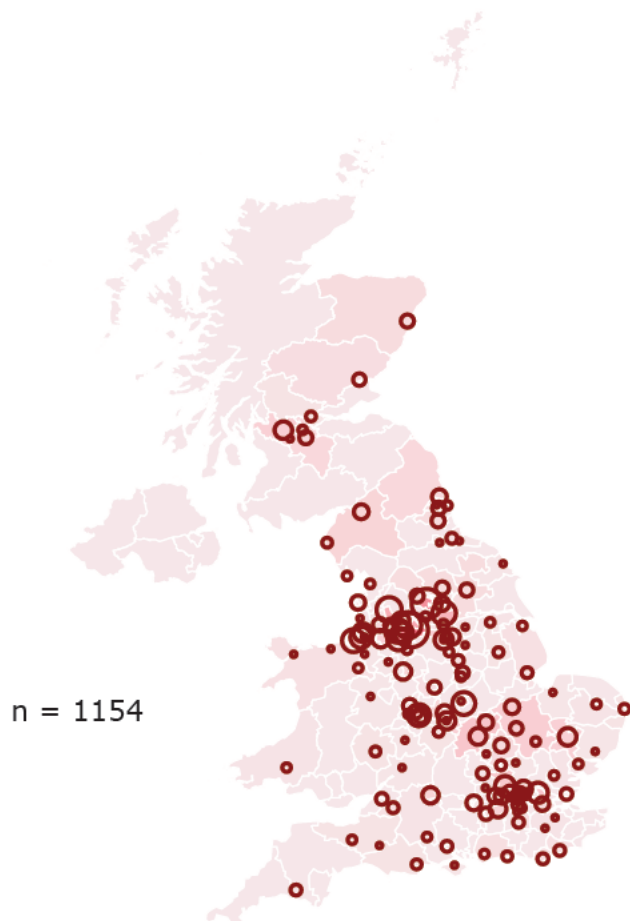
Hospital admission with COVID-19 by ethnicity
Figure 1F



Location by CCG / Healthboard

Figure 2

Click and drag on map to zoom into area. Reset via toolbar at top of map.



Symptoms and comorbidity

Figure 3A

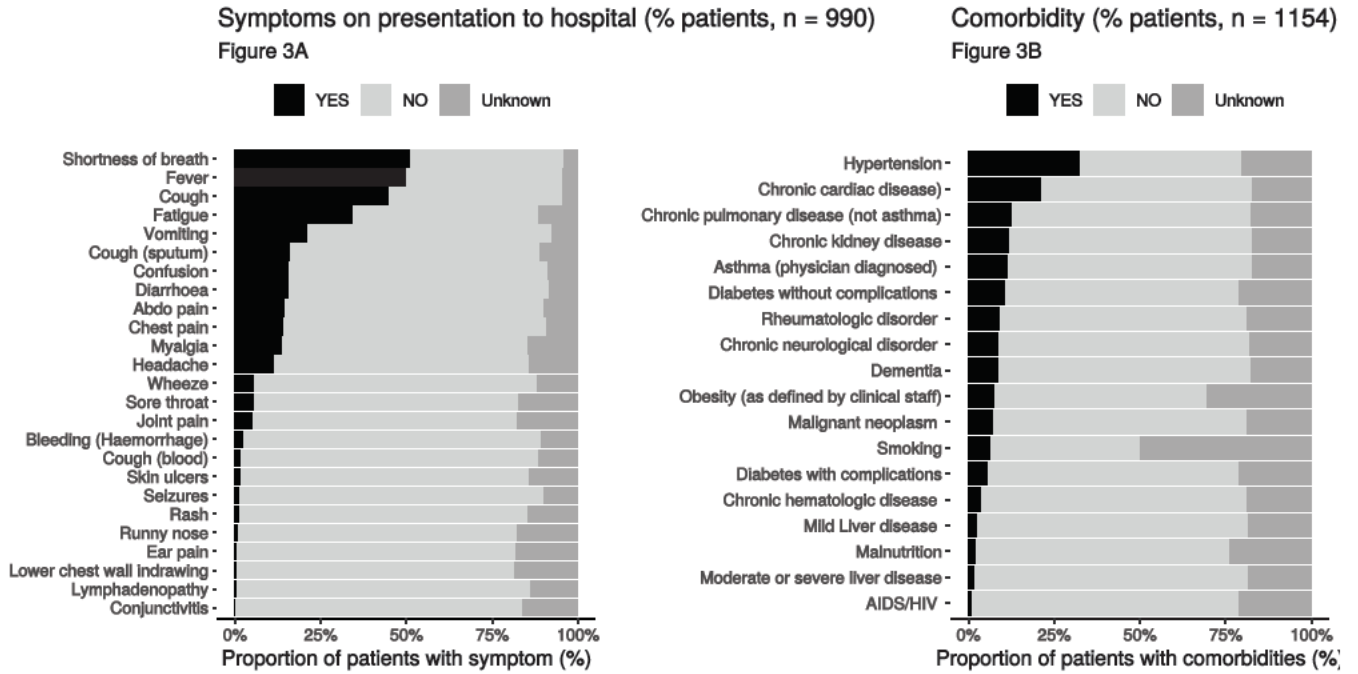
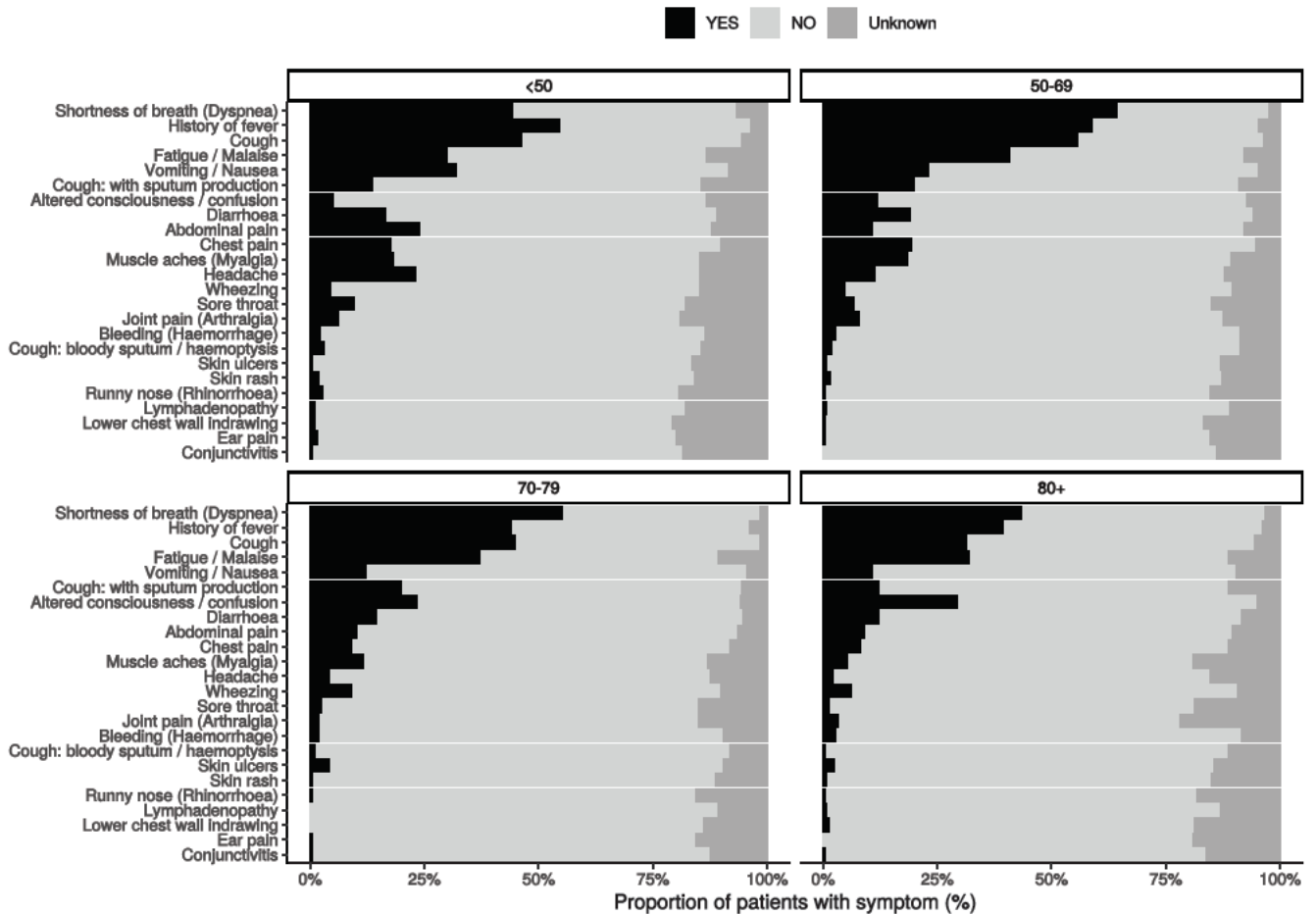


Figure 3B - Symptoms by Age

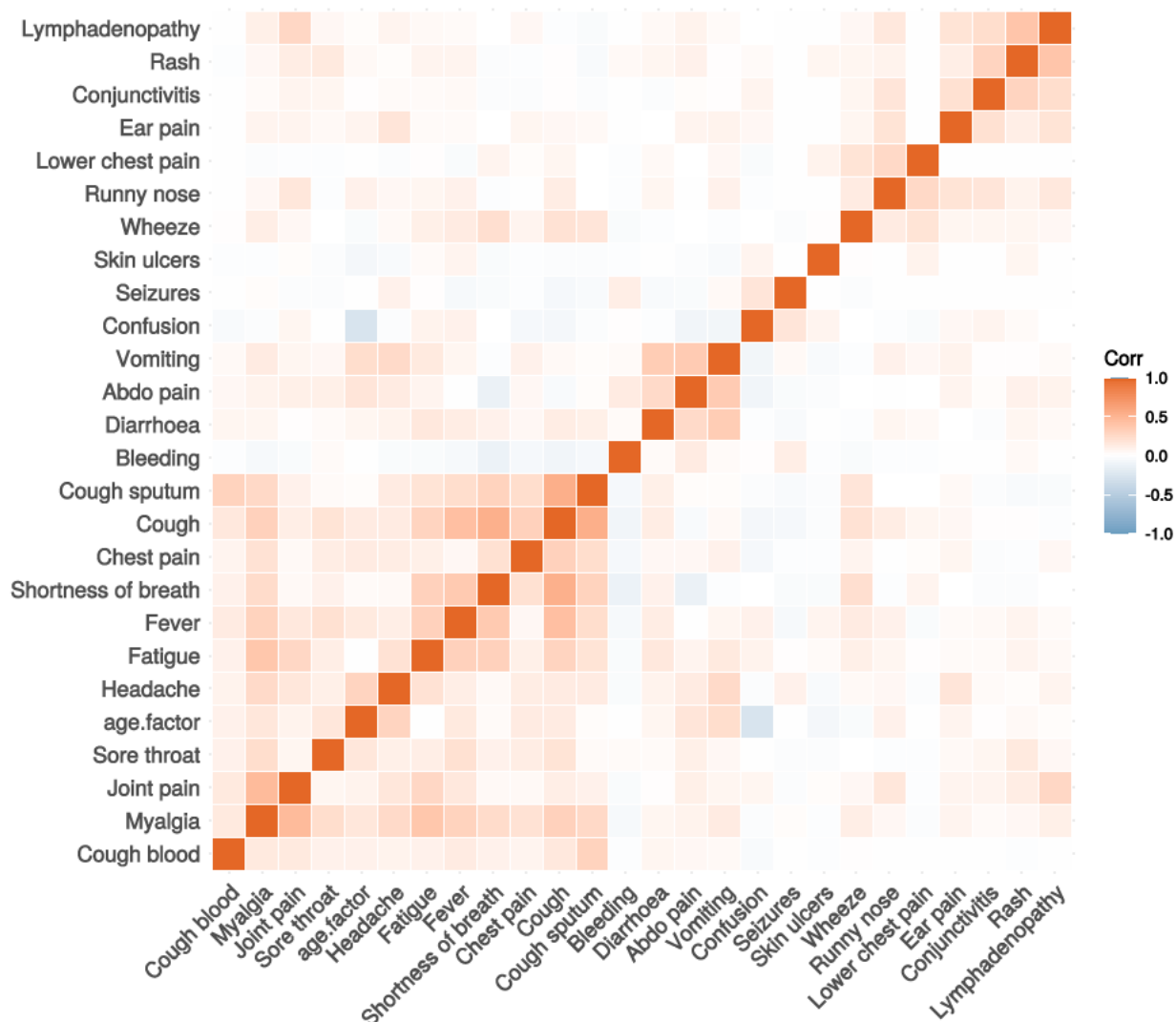


| Age Group | Number of Patients included in Symptoms Plot |
|-----------|--|
| <50 | 328 |

| Age Group | Number of Patients included in Symptoms Plot |
|-----------|--|
| 50-69 | 259 |
| 70-79 | 168 |
| 80+ | 250 |

Figure 3C

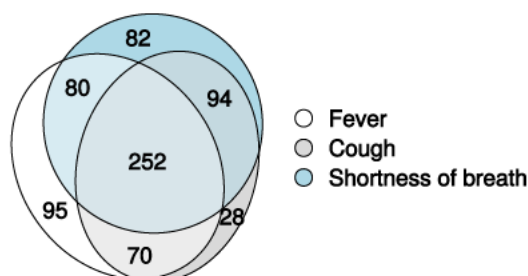
Correlation of symptoms in all pages. Note clusters, top right to bottom left, flu-like, coryzal, abdominal, respiratory, neurocutaneous.



Symptoms (diagnostic criteria)

Figure 4A

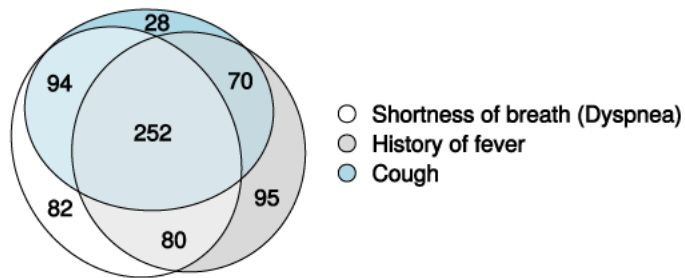
n = 990



Symptoms (most common)

Figure 4B

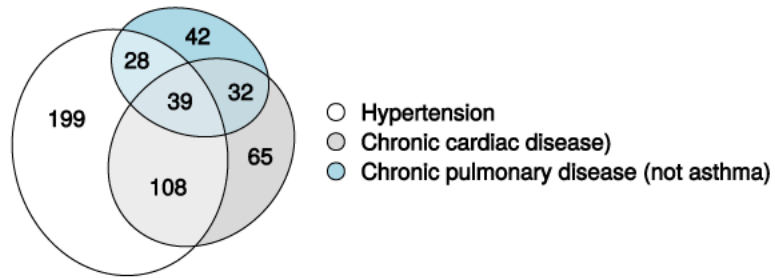
n = 990



Comorbidity (most common)

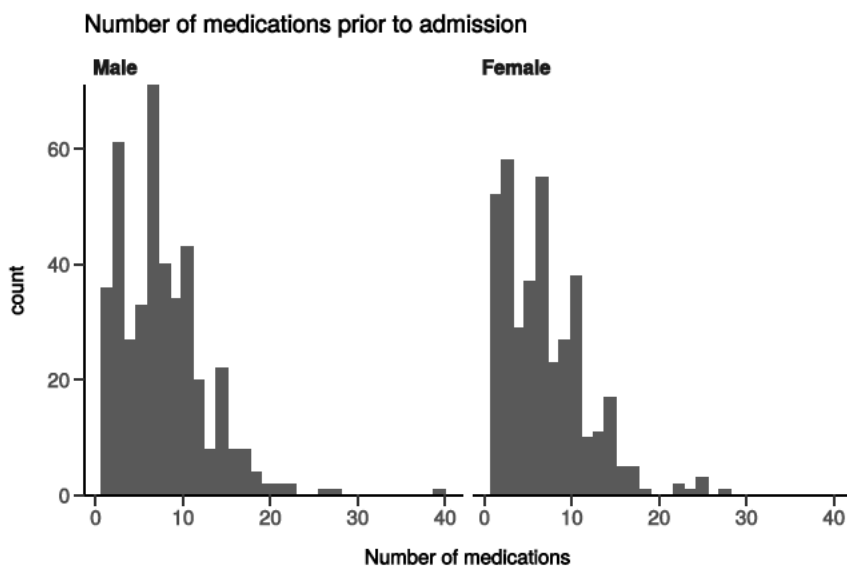
Figure 4C

n = 1154



Medication prior to illness

Figure 5

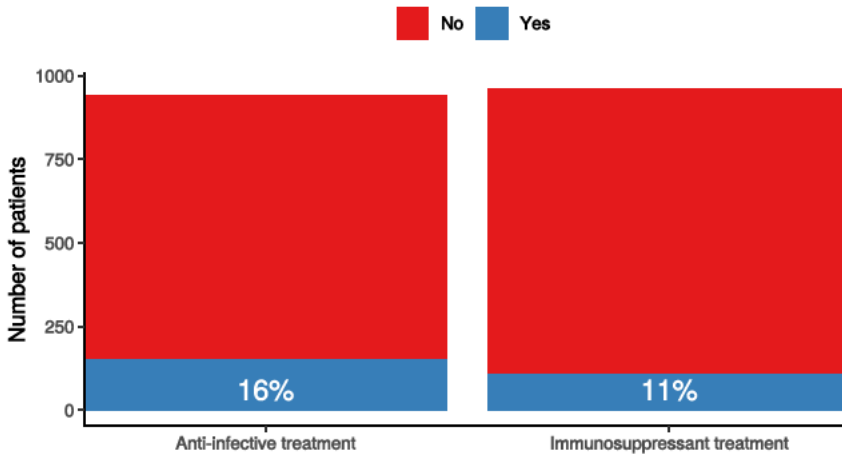


Preadmission treatment

Figure 6

Pre-admission treatment

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



Patient flow

Figure 7A - All patients

N = 1046

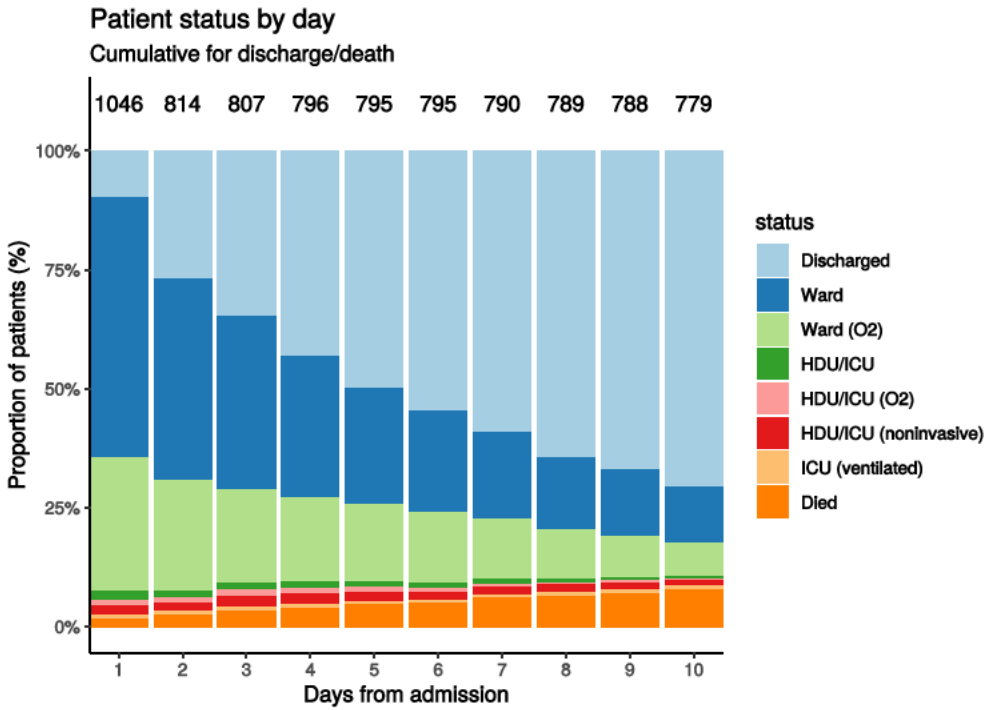
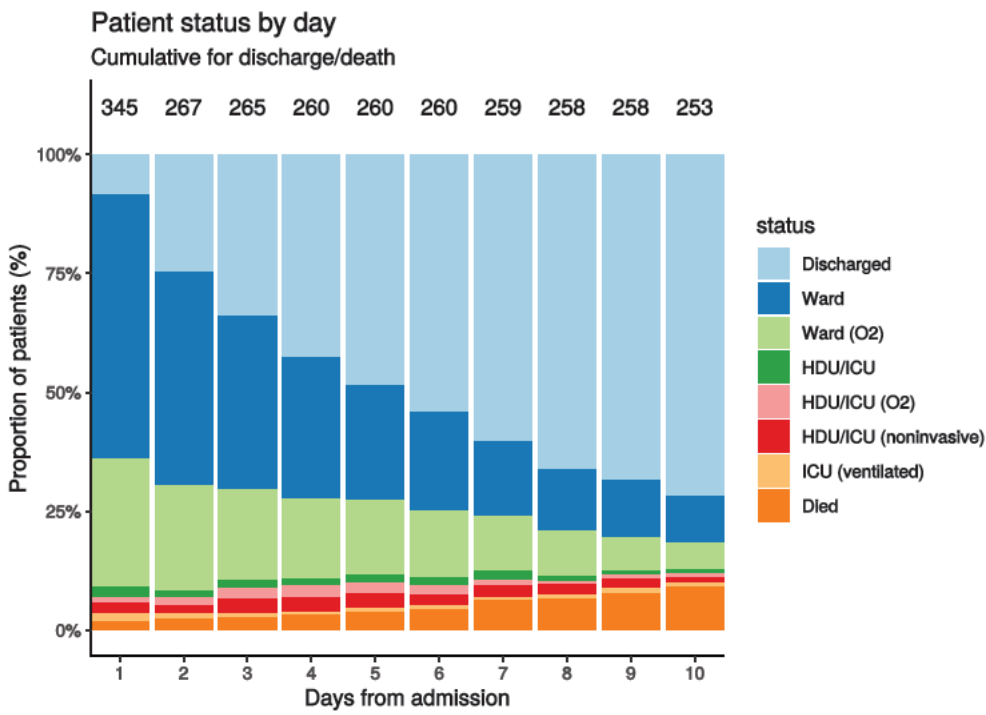


Figure 7B - Patients admitted ≥ 14 days and ≤ 28 days ago

N = 345



Oxygen requirement

Figure 8A - All patients

N = 978

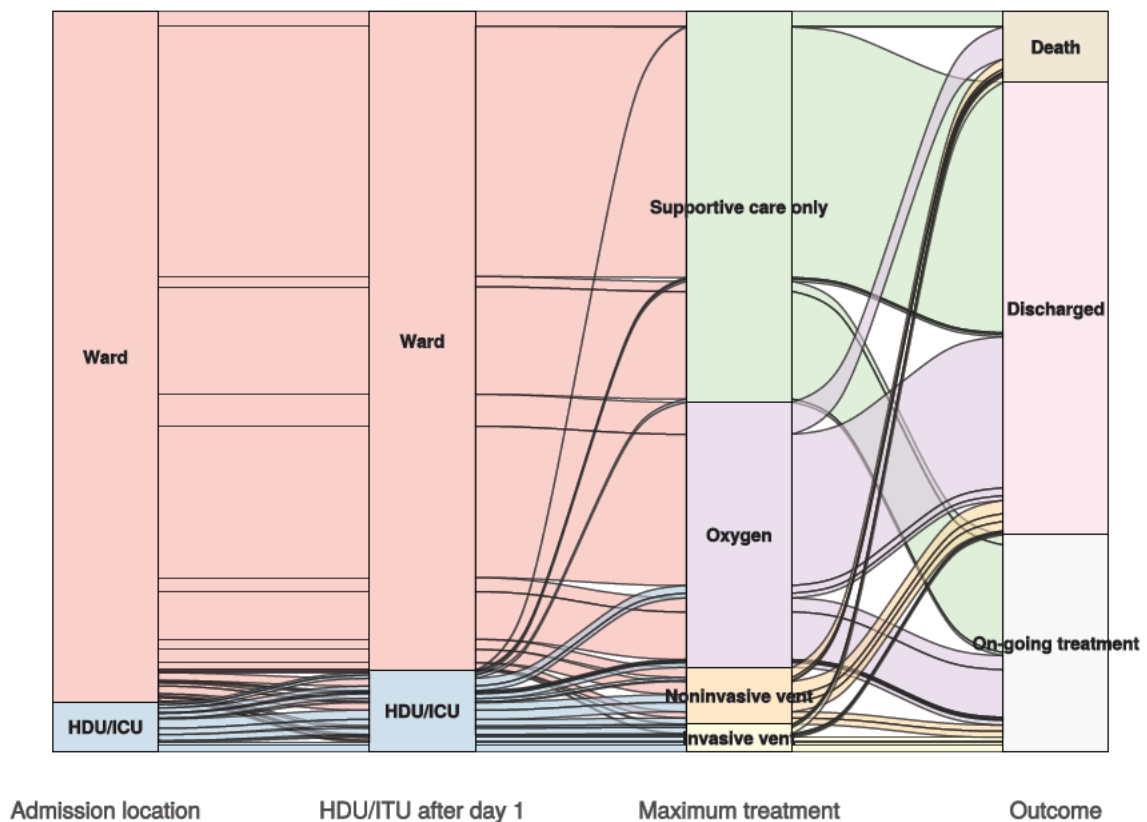


Figure 8B - Patients admitted ≥ 14 days and ≤ 28 days ago

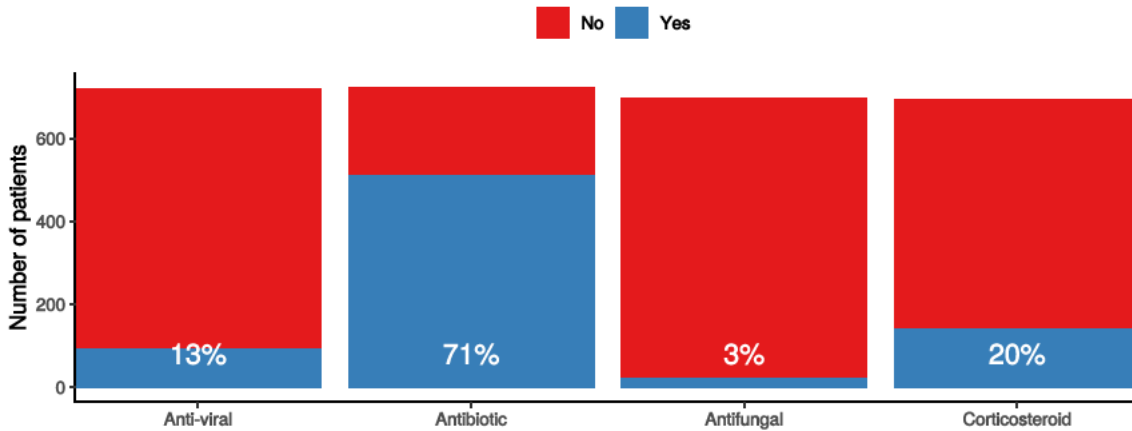
N = 323

In-hospital medical treatment

Figure 9

In-hospital treatment

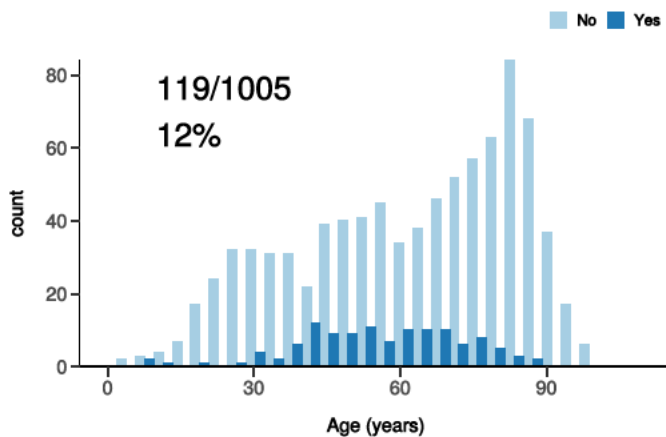
Anti-virals, antibiotics, corticosteroids, and anti-fungals for patients who have completed journey.



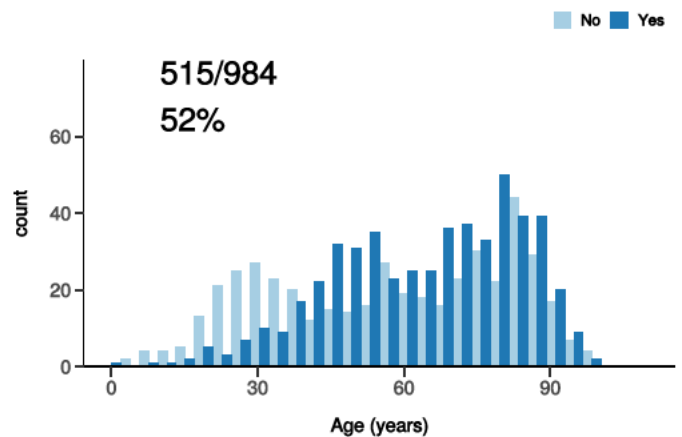
Treatment

Figure 10

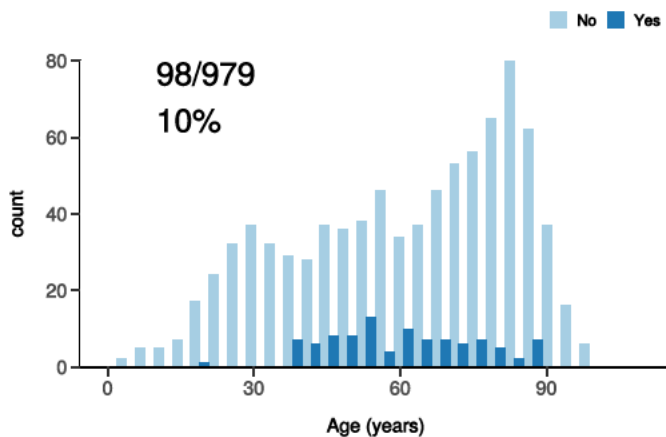
ICU/HDU admission
Figure 10A



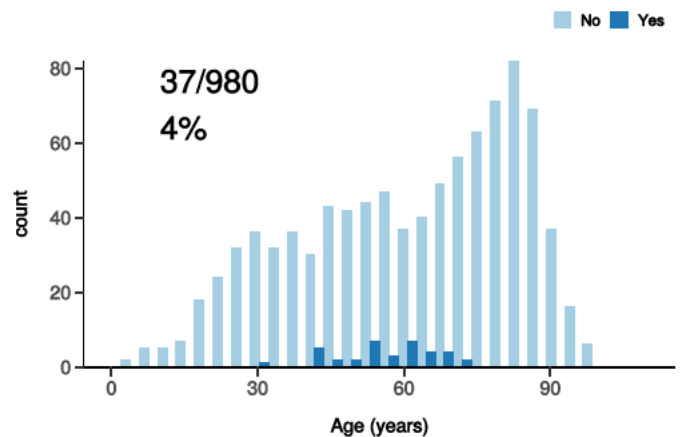
High flow oxygen
Figure 10B



Noninvasive ventilation
Figure 10C



Invasive ventilation
Figure 10D

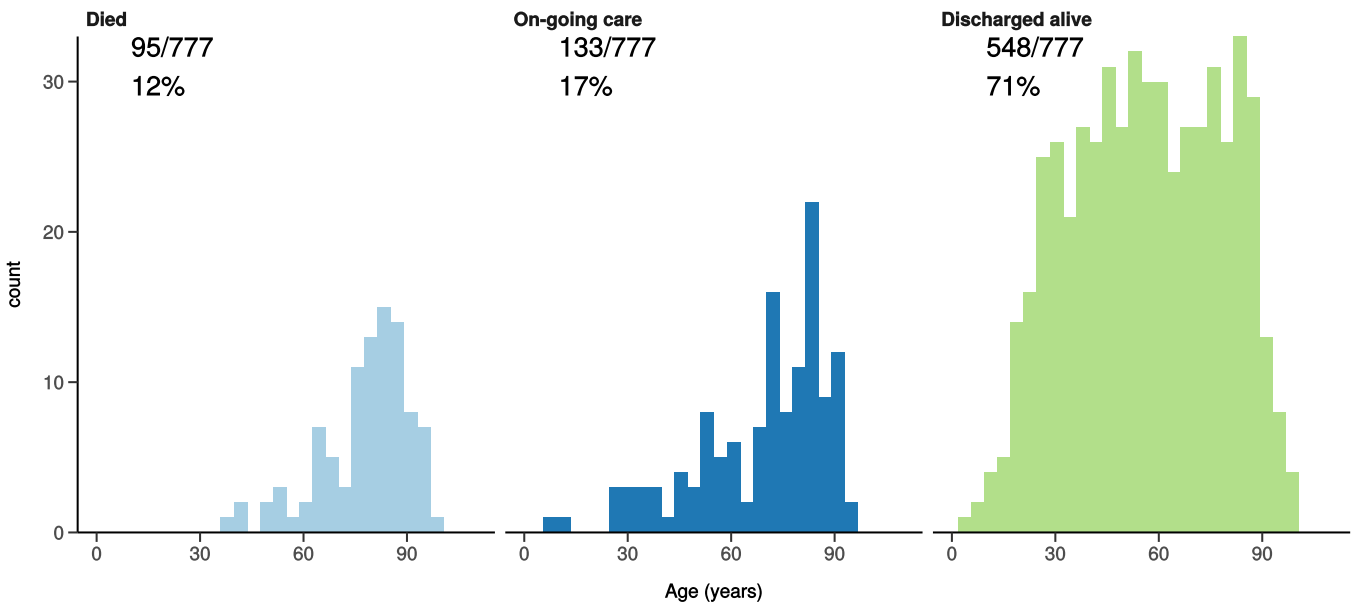


Status in patients admitted ≥ 14 days from today

Figure 11

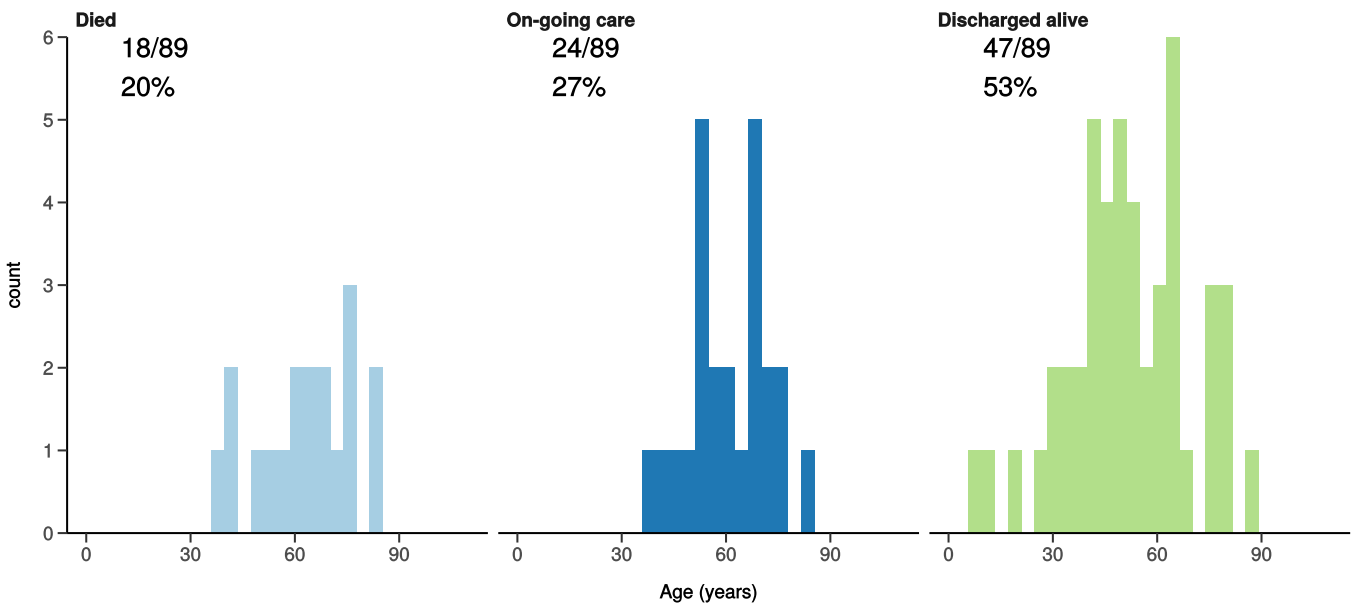
All: status in patients admitted ≥ 14 days ago

Figure 11A



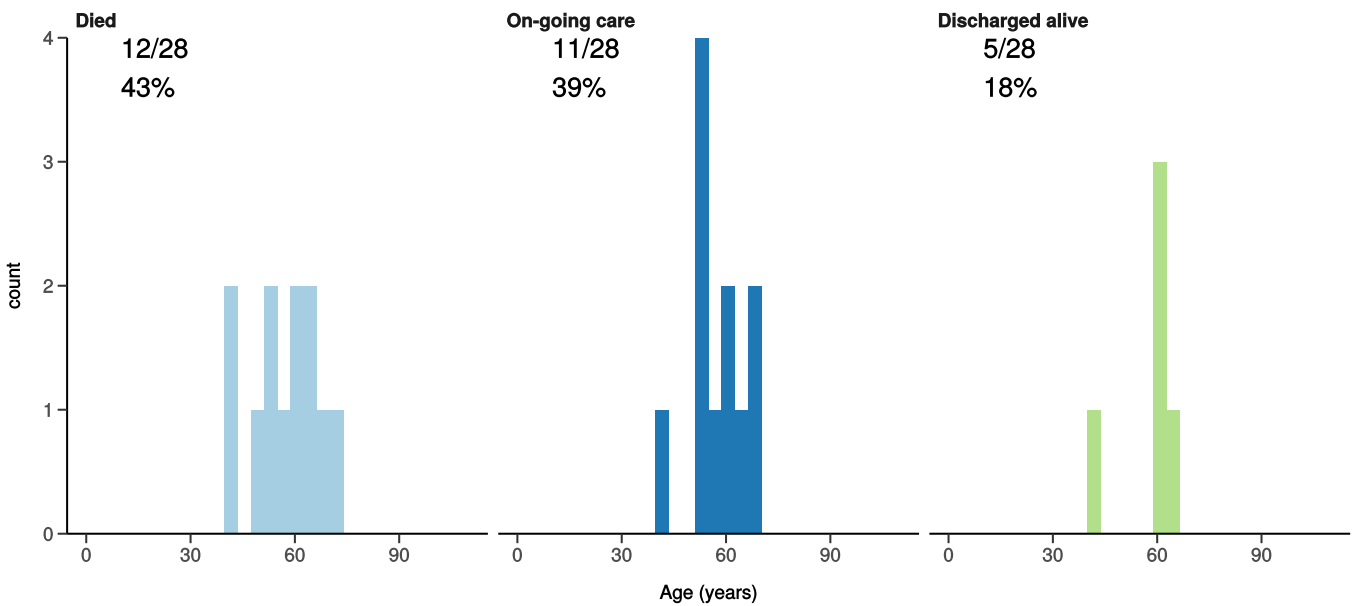
ICU/HDU admissions: status in patients admitted ≥ 14 days ago

Figure 11B



Invasive ventilation: status in patients admitted ≥ 14 days ago

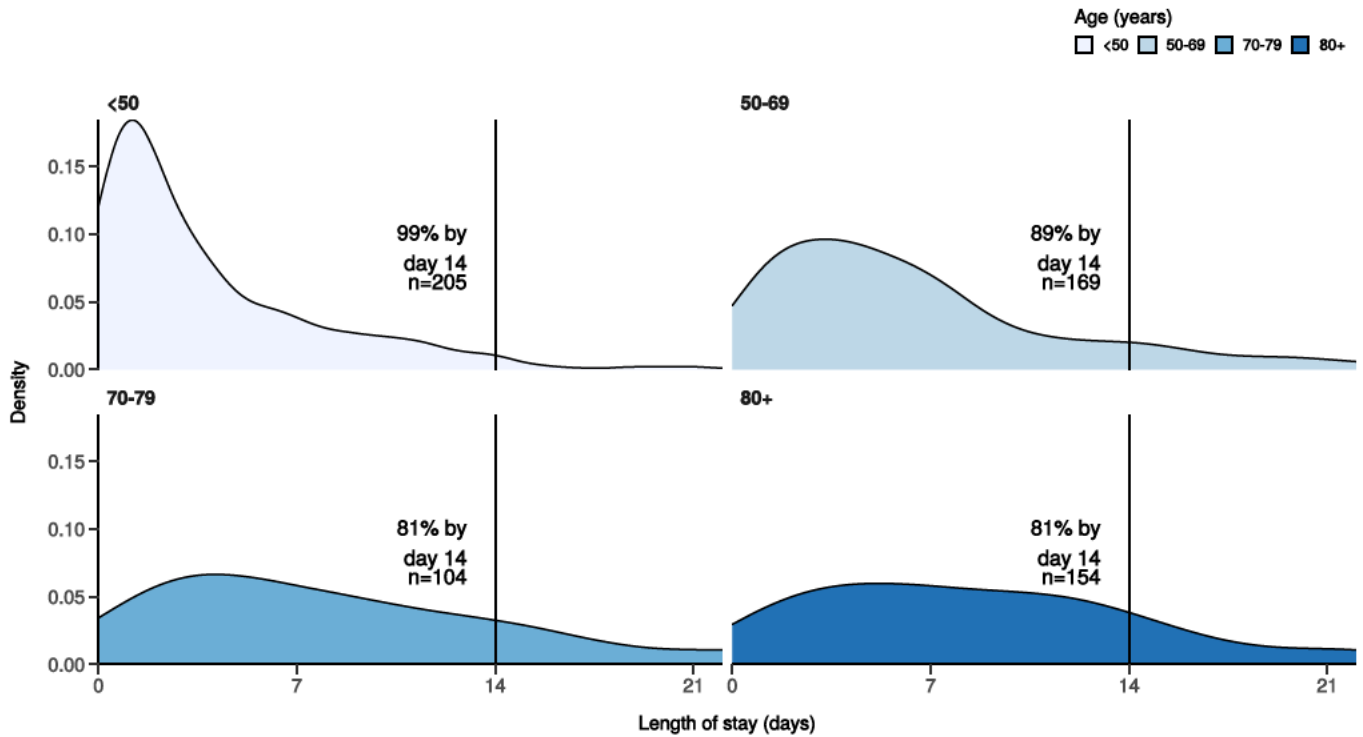
Figure 11c



Length of stay stratified by age

Figure 12

Length of stay stratified by age
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 on admission (years) | <50 | 230 (98.3) | 4 (1.7) | • | • |
| | 50-69 | 160 (89.4) | 19 (10.6) | 6.83 (2.51-23.89, p=0.001) | 4.86 (1.66-17.75, p=0.007) |
| | 70-79 | 84 (79.2) | 22 (20.8) | 15.06 (5.57-52.63, p<0.001) | 7.89 (2.52-30.20, p=0.001) |
| | 80+ | 115 (70.1) | 49 (29.9) | 24.50 (9.70-82.58, p<0.001) | 9.89 (3.15-38.07, p<0.001) |
| Sex at Birth | Male | 301 (85.5) | 51 (14.5) | • | • |
| | Female | 288 (87.0) | 43 (13.0) | 0.88 (0.57-1.36, p=0.570) | 1.41 (0.78-2.55, p=0.254) |
| | Not specified | 0 (NaN) | 0 (NaN) | • | • |
| Chronic cardiac disease) | NO | 416 (91.4) | 39 (8.6) | • | • |
| | YES | 109 (70.3) | 46 (29.7) | 4.50 (2.80-7.27, p<0.001) | 2.62 (1.37-5.05, p=0.004) |
| Chronic pulmonary disease (not asthma) | NO | 463 (89.0) | 57 (11.0) | • | • |
| | YES | 63 (71.6) | 25 (28.4) | 3.22 (1.86-5.49, p<0.001) | 1.39 (0.66-2.83, p=0.371) |
| Chronic neurological disorder | NO | 484 (87.4) | 70 (12.6) | • | • |
| | YES | 37 (75.5) | 12 (24.5) | 2.24 (1.08-4.39, p=0.023) | 2.43 (1.01-5.57, p=0.040) |
| Chronic hematologic disease | NO | 495 (86.2) | 79 (13.8) | • | • |
| | YES | 21 (87.5) | 3 (12.5) | 0.90 (0.21-2.67, p=0.860) | 0.33 (0.05-1.36, p=0.176) |

| Dependent: death | | No | Yes | OR (univariable) | OR (multivariable) |
|--|----|------------|-----------|---------------------------|---------------------------|
| Chronic kidney disease | NO | 465 (88.1) | 63 (11.9) | • | • |
| | ES | 58 (73.4) | 21 (26.6) | 2.67 (1.50-4.65, p=0.001) | 0.98 (0.44-2.09, p=0.958) |
| Dementia | NO | 489 (88.1) | 66 (11.9) | • | • |
| | ES | 40 (74.1) | 14 (25.9) | 2.59 (1.30-4.92, p=0.005) | 1.03 (0.38-2.61, p=0.944) |
| Obesity (as defined by clinical staff) | NO | 402 (87.8) | 56 (12.2) | • | • |
| | ES | 48 (80.0) | 12 (20.0) | 1.79 (0.87-3.49, p=0.097) | 2.68 (1.15-5.97, p=0.018) |
| Malignant neoplasm | NO | 477 (87.5) | 68 (12.5) | • | • |
| | ES | 37 (74.0) | 13 (26.0) | 2.46 (1.21-4.77, p=0.009) | 2.06 (0.85-4.77, p=0.098) |

Number in dataframe = 895, Number in model = 504, Missing = 391, AIC = 336.1, C-statistic = 0.81, H&L = Chi-sq(8) 4.81 (p=0.777)

Figure 13 - Adjusted odds ratio plot

Death

| | | |
|--|---------------|----------------------------|
| Age on admission (years) | <50 | - |
| | 50-69 | 4.86 (1.66-17.75, p=0.007) |
| | 70-79 | 7.89 (2.52-30.20, p=0.001) |
| | 80+ | 9.89 (3.15-38.07, p<0.001) |
| Sex at Birth | Male | - |
| | Female | 1.41 (0.78-2.55, p=0.254) |
| | Not specified | - |
| Chronic cardiac disease | YES | 2.62 (1.37-5.05, p=0.004) |
| Chronic pulmonary disease (not asthma) | YES | 1.39 (0.66-2.83, p=0.371) |
| Chronic neurological disorder | YES | 2.43 (1.01-5.57, p=0.040) |
| Chronic hematologic disease | YES | 0.33 (0.05-1.36, p=0.176) |
| Chronic kidney disease | YES | 0.98 (0.44-2.09, p=0.958) |
| Dementia | YES | 1.03 (0.38-2.61, p=0.944) |
| Obesity (as defined by clinical staff) | YES | 2.68 (1.15-5.97, p=0.018) |
| Malignant neoplasm | YES | 2.06 (0.85-4.77, p=0.098) |

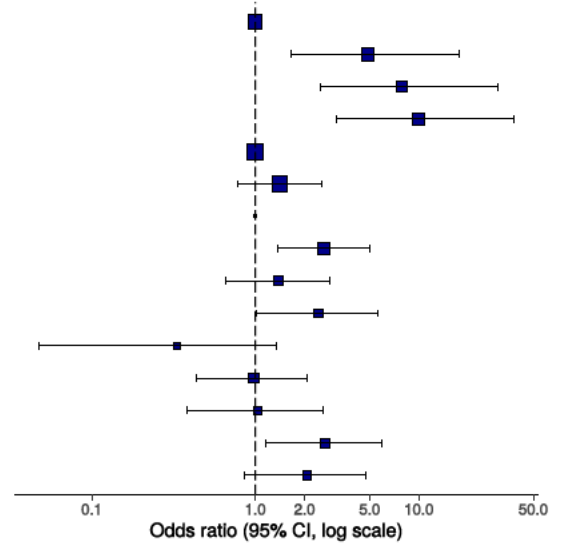
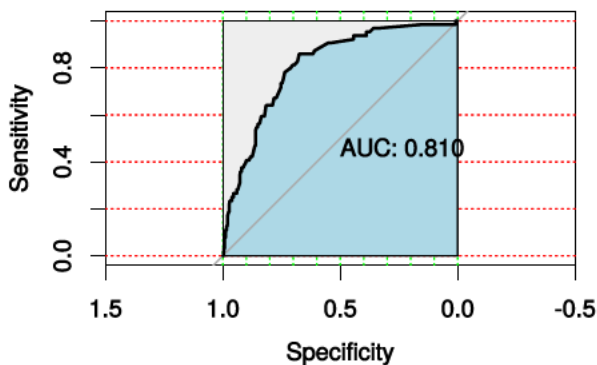


Figure 14 - ROC

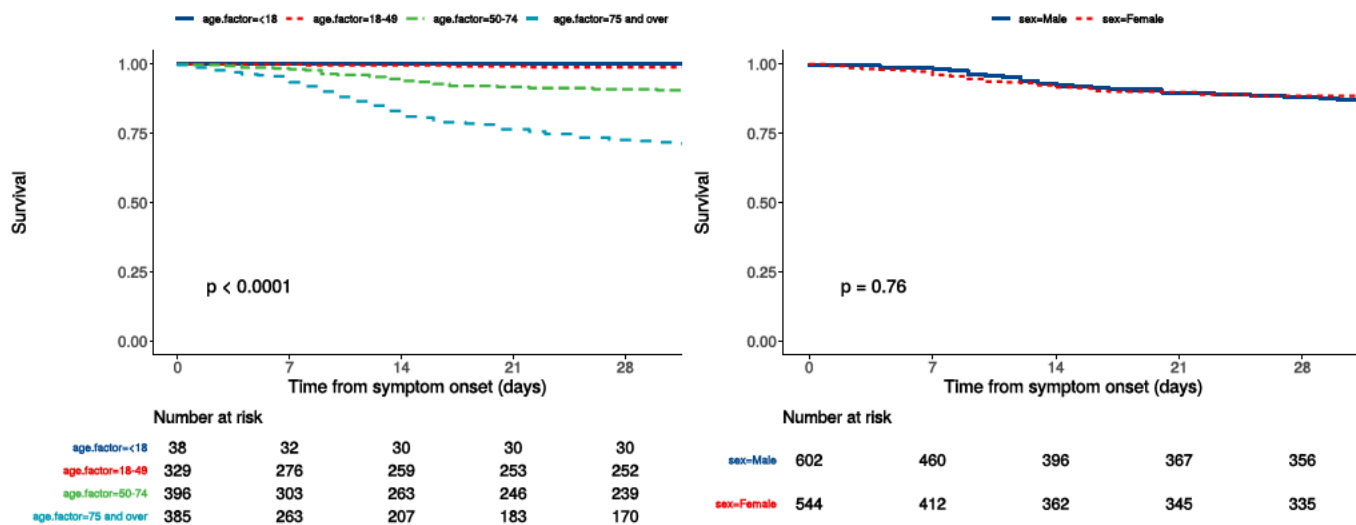


Survival models

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

Figure 15

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.

Time from symptom onset.

| Dependent: Surv(time, status) | | all | | HR (univariable) | HR (multivariable) |
|----------------------------------|-------------|------------|---|------------------------------------|-----------------------------------|
| Age on admission (years) | <50 | 367 (31.9) | • | | • |
| | 50-69 | 303 (26.4) | | 9.66 (2.88-32.38, $p < 0.001$) | 7.44 (1.64-33.67, $p = 0.009$) |
| | 70-79 | 189 (16.4) | | 20.09 (6.05-66.72, $p < 0.001$) | 15.46 (3.42-69.83, $p < 0.001$) |
| | 80+ | 290 (25.2) | | 34.62 (10.84-110.57, $p < 0.001$) | 24.34 (5.45-108.61, $p < 0.001$) |
| Sex at Birth | Male | 602 (52.5) | • | | • |
| | Female | 544 (47.5) | | 0.94 (0.64-1.38, $p = 0.760$) | 1.65 (0.98-2.77, $p = 0.060$) |
| qSOFA score on admission | 0 | 456 (51.6) | • | | • |
| | 1 | 343 (38.8) | | 2.38 (1.42-4.00, $p = 0.001$) | 2.94 (1.56-5.56, $p = 0.001$) |
| | 2 | 83 (9.4) | | 7.64 (4.26-13.72, $p < 0.001$) | 7.43 (3.63-15.22, $p < 0.001$) |
| | 3 | 2 (0.2) | | 0.00 (0.00-Inf, $p = 0.995$) | 0.00 (0.00-Inf, $p = 0.997$) |
| Symptomatic at presentation | No symptoms | 124 (12.4) | • | | • |
| | Symptoms | 877 (87.6) | | 1.38 (0.70-2.74, $p = 0.357$) | • |
| Chronic cardiac disease) | NO | 709 (74.4) | • | | • |
| | YES | 244 (25.6) | | 3.66 (2.45-5.47, $p < 0.001$) | 1.77 (1.00-3.14, $p = 0.050$) |
| Chronic kidney disease | NO | 820 (86.1) | • | | • |
| | YES | 132 (13.9) | | 2.86 (1.83-4.47, $p < 0.001$) | 1.07 (0.56-2.04, $p = 0.831$) |
| Moderate or severe liver disease | NO | 922 (98.1) | • | | • |
| | YES | 18 (1.9) | | 0.59 (0.08-4.20, $p = 0.595$) | 0.81 (0.10-6.39, $p = 0.842$) |
| Chronic neurological disorder | NO | 845 (89.5) | • | | • |
| | YES | 99 (10.5) | | 2.41 (1.40-4.13, $p = 0.001$) | • |

| Dependent: Surv(time, status) | | all | HR (univariable) | HR (multivariable) |
|--|-----|------------|----------------------------|---------------------------|
| Malignant neoplasm | NO | 854 (91.2) | • | • |
| | YES | 82 (8.8) | 2.74 (1.59-4.70, p<0.001) | 2.23 (1.13-4.41, p=0.021) |
| Chronic hematologic disease | NO | 894 (95.5) | • | • |
| | YES | 42 (4.5) | 1.83 (0.85-3.96, p=0.124) | • |
| Obesity (as defined by clinical staff) | NO | 718 (89.6) | • | • |
| | YES | 83 (10.4) | 1.70 (0.94-3.09, p=0.082) | 1.97 (0.96-4.03, p=0.063) |
| Diabetes without complications | NO | 788 (86.8) | • | • |
| | YES | 120 (13.2) | 1.13 (0.62-2.03, p=0.693) | • |
| Rheumatologic disorder | NO | 835 (89.2) | • | • |
| | YES | 101 (10.8) | 0.98 (0.49-1.95, p=0.953) | • |
| Dementia | NO | 852 (89.9) | • | • |
| | YES | 96 (10.1) | 2.65 (1.54-4.54, p<0.001) | 0.75 (0.33-1.69, p=0.483) |
| Malnutrition | NO | 851 (97.4) | • | • |
| | YES | 23 (2.6) | 5.17 (2.49-10.73, p<0.001) | • |
| smoking_mhyn_2levels | NO | 505 (51.0) | • | • |
| | YES | 70 (7.1) | 0.97 (0.41-2.30, p=0.952) | • |
| | N/K | 416 (42.0) | 1.70 (1.12-2.58, p=0.012) | • |

Number in dataframe = 1149, Number in model = 692, Missing = 457, Number of events = 62, Concordance = 0.858 (SE = 0.018), R-squared = 0.145(Max possible = 0.675), Likelihood ratio test = 108.641 (df = 13, p = 0.000)

Figure 16a - Multivariable Cox proportional hazards model

Survival: HR (95% CI, p-value)

| | | |
|--|--------|------------------------------|
| Age on admission (years) | <50 | - |
| | 50-69 | 7.44 (1.64-33.67, p=0.009) |
| | 70-79 | 15.46 (3.42-69.83, p<0.001) |
| | 80+ | 24.34 (5.45-108.61, p<0.001) |
| Sex at Birth | Female | 1.65 (0.98-2.77, p=0.060) |
| qSOFA score on admission | 0 | - |
| | 1 | 2.94 (1.56-5.56, p=0.001) |
| | 2 | 7.43 (3.63-15.22, p<0.001) |
| | 3 | 0.00 (0.00-Inf, p=0.997) |
| Chronic cardiac disease) | YES | 1.77 (1.00-3.14, p=0.050) |
| Chronic kidney disease | YES | 1.07 (0.56-2.04, p=0.831) |
| Moderate or severe liver disease | YES | 0.81 (0.10-6.39, p=0.842) |
| Malignant neoplasm | YES | 2.23 (1.13-4.41, p=0.021) |
| Obesity (as defined by clinical staff) | YES | 1.97 (0.96-4.03, p=0.063) |
| Dementia | YES | 0.75 (0.33-1.69, p=0.483) |

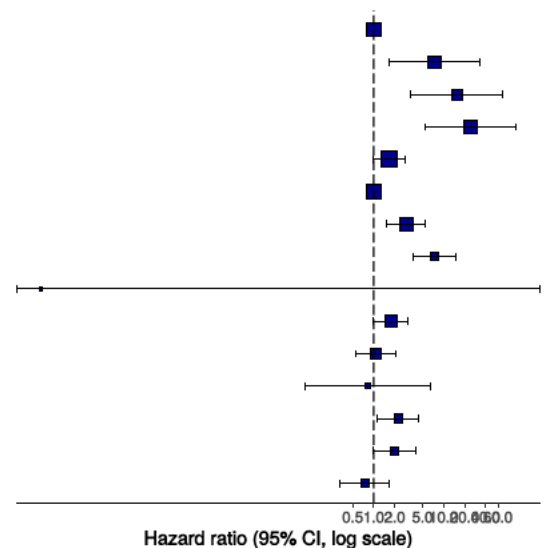
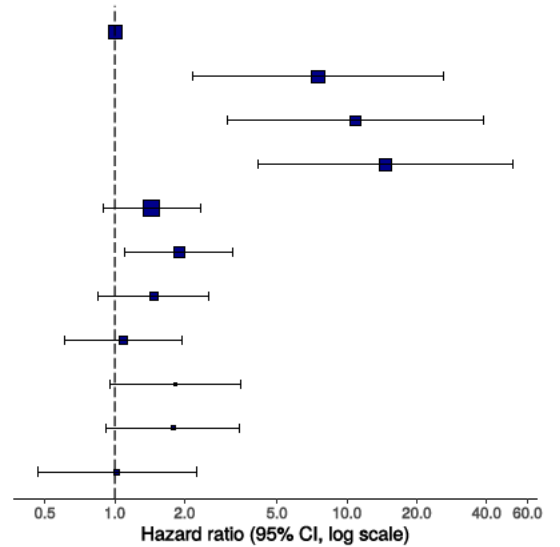


Figure 16b - Multivariable Cox proportional hazards model (age, sex, comorbidities only)

Survival: HR (95% CI, p-value)

| | | |
|--|--------|-----------------------------|
| Age on admission (years) | <50 | - |
| | 50-69 | 7.53 (2.18-26.02, p=0.001) |
| | 70-79 | 10.90 (3.06-38.83, p<0.001) |
| | 80+ | 14.64 (4.13-51.92, p<0.001) |
| Sex at Birth | Female | 1.44 (0.89-2.34, p=0.136) |
| Chronic cardiac disease) | YES | 1.89 (1.11-3.23, p=0.020) |
| Chronic pulmonary disease (not asthma) | YES | 1.47 (0.85-2.55, p=0.169) |
| Chronic kidney disease | YES | 1.09 (0.61-1.95, p=0.766) |
| Malignant neoplasm | YES | 1.83 (0.96-3.51, p=0.068) |
| Obesity (as defined by clinical staff) | YES | 1.78 (0.92-3.45, p=0.088) |
| Dementia | YES | 1.02 (0.47-2.24, p=0.957) |



ROC = 0.8533156

Figure 17 - Predictions calibration plot

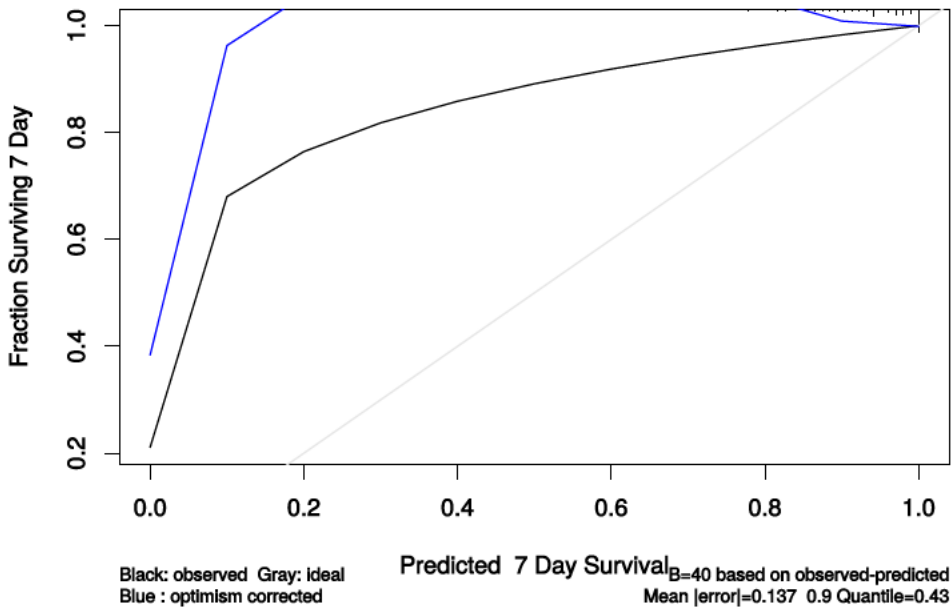


Figure 18 - Prognostic model predictions

Again, for demonstration of methods.

Prognostic model for survival 7 days after onset
qSOFA score on admission

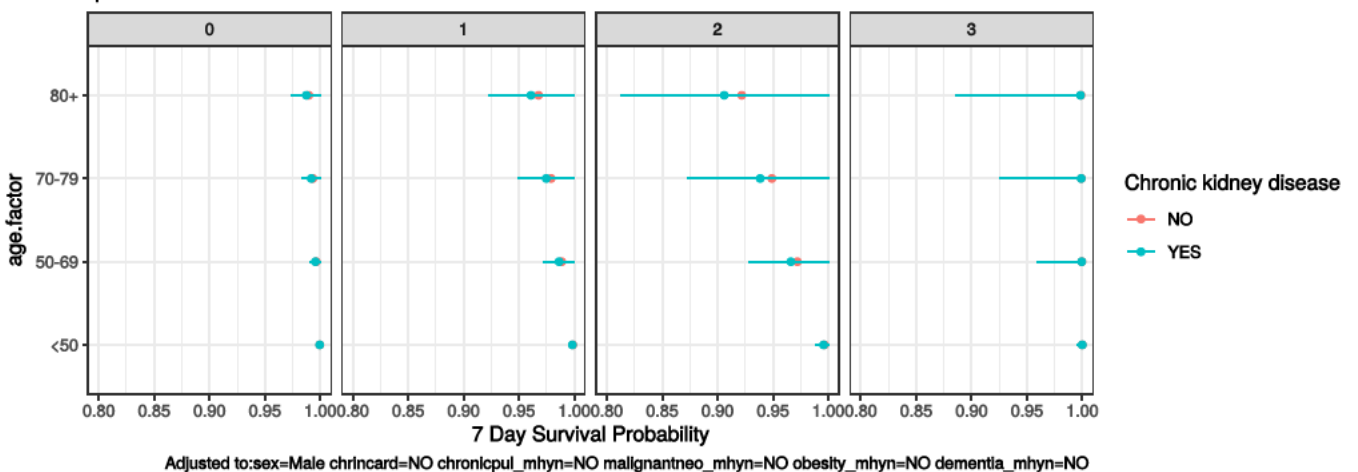


Figure 19 - Death by severity (NEWS) on admission

Number of deaths by NEWS score at admission

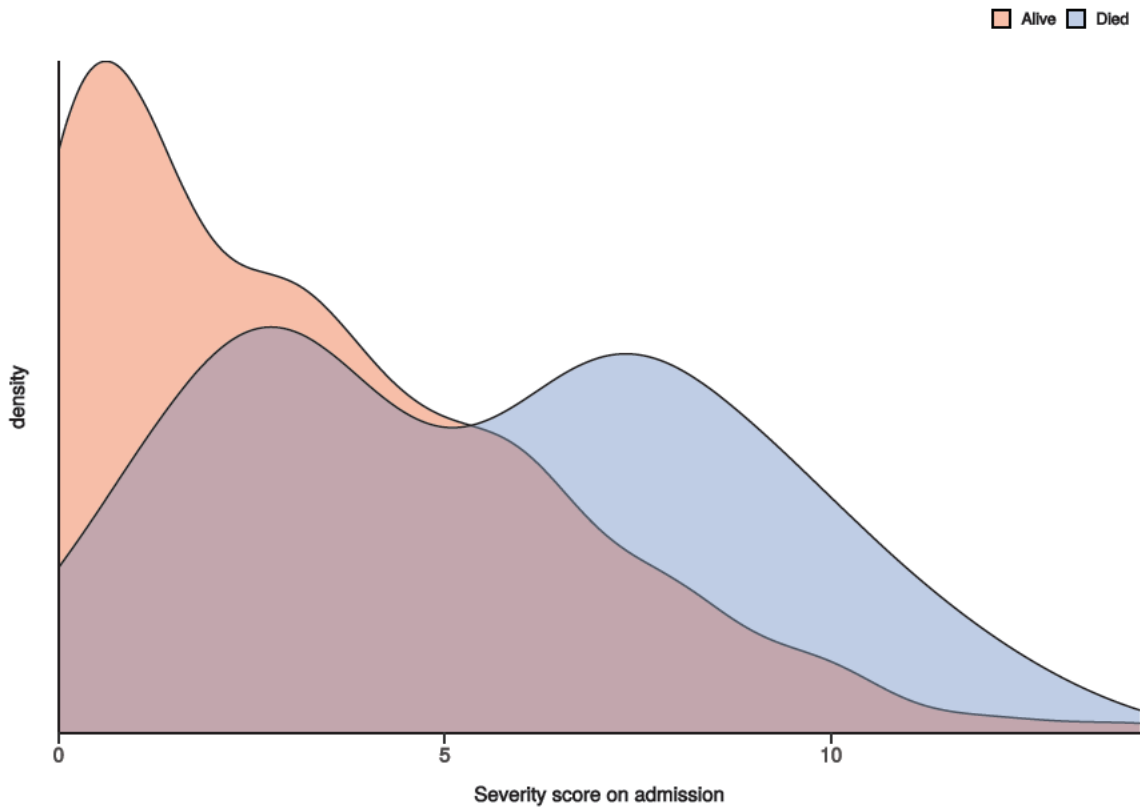


Figure 20 - Death by severity (NEWS) on admission stratified by age

Number of deaths by NEWS score at admission
Stratified by age

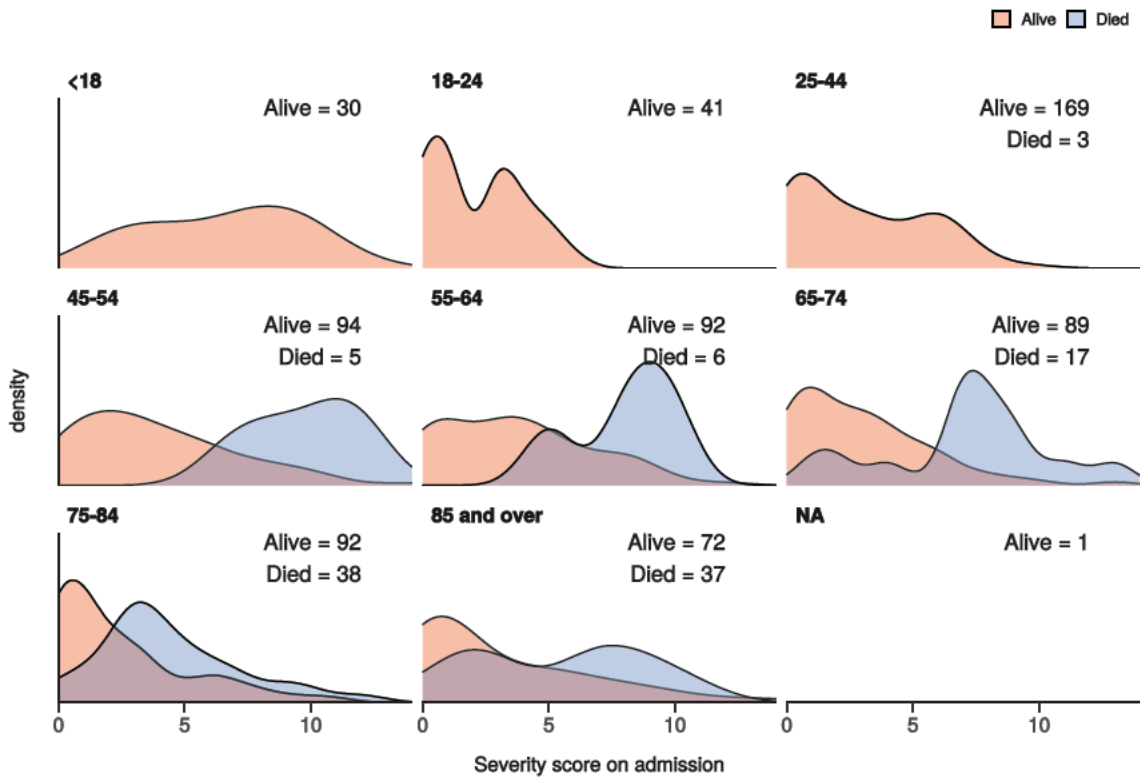
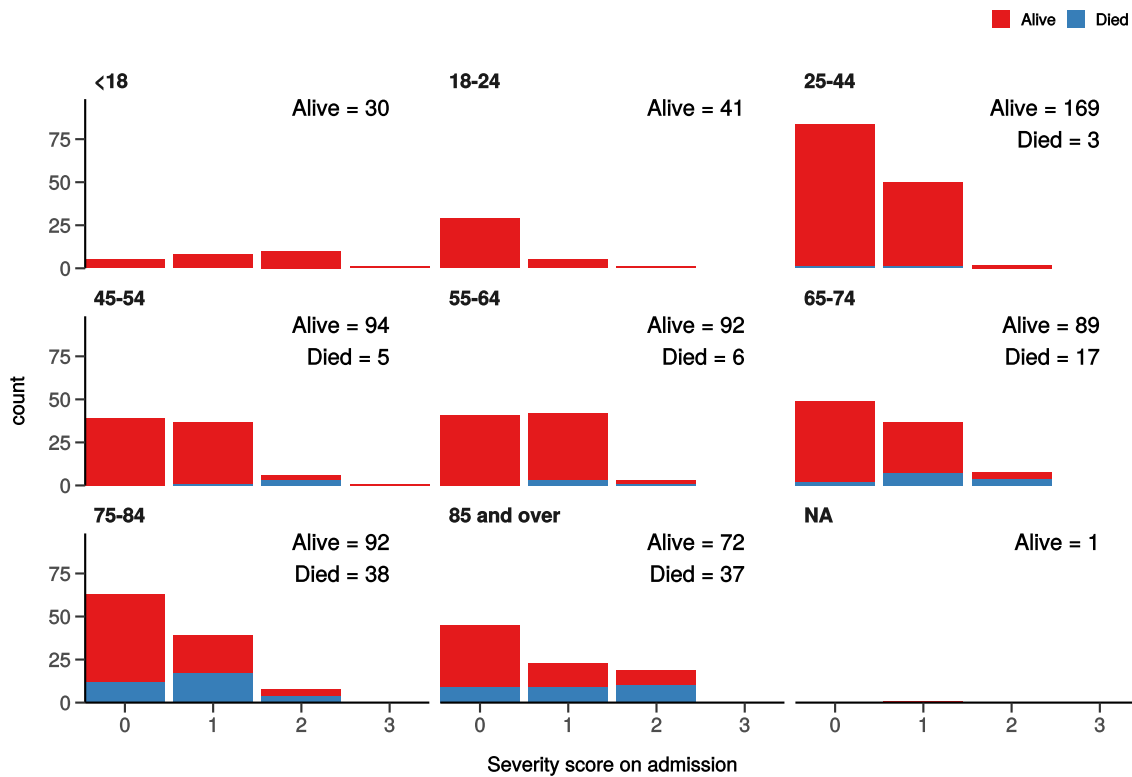


Figure 21 - Death by severity (qSOFA) on admission stratified by age

Number of deaths by qSOFA score at admission
Stratified by age



Healthcare workers

| Employed as a healthcare worker? | | NO | YES | p |
|----------------------------------|--------------|------------|-----------|-------|
| Total N (%) | | 974 (96.3) | 37 (3.7) | |
| NEWS score on admission | Median (IQR) | 3.0 (5.0) | 3.0 (4.8) | 0.509 |
| Death | No | 569 (84.9) | 28 (96.6) | 0.142 |
| | Yes | 101 (15.1) | 1 (3.4) | |

Admission (detail)

Table 1

| label | levels | all | value |
|--------------------------|----------------------------------|--------------|----------|
| Total N (%) | | 1154 (100.0) | |
| Age on admission (years) | Mean (SD) | 61.3 (37.4) | |
| Sex at Birth | Male | 604 (52.3) | |
| | Female | 547 (47.4) | |
| | Not specified | 2 (0.2) | |
| | (Missing) | 1 (0.1) | |
| | Employed as a healthcare worker? | YES | 37 (3.2) |
| | NO | 974 (84.4) | |
| | N/A | 121 (10.5) | |
| | (Missing) | 22 (1.9) | |

| label | levels | all value |
|---|--|-----------------|
| Employed in a microbiology laboratory? | YES | 0 (0.0) |
| | NO | 58 (5.0) |
| | N/A | 2 (0.2) |
| | (Missing) | 1094 (94.8) |
| Onset to admission (days) | Mean (SD) | 479.7 (13149.9) |
| Transfer from other facility? | Yes-other facility is a study site | 13 (1.1) |
| | Yes-other facility is not a study site | 31 (2.7) |
| | No | 967 (83.8) |
| | N/A | 70 (6.1) |
| | (Missing) | 73 (6.3) |
| Travel in the 14 days prior to first symptom onset? | Yes | 2 (0.2) |
| | No | 45 (3.9) |
| | N/A | 6 (0.5) |
| | (Missing) | 1101 (95.4) |
| If YES, state location: Country | Afghanistan | 0 (0.0) |
| | Albania | 0 (0.0) |
| | Algeria | 0 (0.0) |
| | Andorra | 0 (0.0) |
| | Angola | 0 (0.0) |
| | Antigua and Barbuda | 0 (0.0) |
| | Argentina | 0 (0.0) |
| | Armenia | 0 (0.0) |
| | Aruba | 0 (0.0) |
| | Australia | 0 (0.0) |
| | Austria | 0 (0.0) |
| | Azerbaijan | 0 (0.0) |
| | Bahamas (The) | 0 (0.0) |
| | Bahrain | 0 (0.0) |
| | Bangladesh | 0 (0.0) |
| | Barbados | 0 (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) | |

| label | levels | all | value |
|--------------|--------------------------|------------|--------------|
| | Bosnia and Herzegovina | 0 | (0.0) |
| | Botswana | 0 | (0.0) |
| | Brazil | 0 | (0.0) |
| | Brunei | 0 | (0.0) |
| | Bulgaria | 0 | (0.0) |
| | Burkina Faso | 0 | (0.0) |
| | Burma | 0 | (0.0) |
| | Burundi | 0 | (0.0) |
| | Cambodia | 0 | (0.0) |
| | Cameroon | 0 | (0.0) |
| | Canada | 0 | (0.0) |
| | Cabo Verde | 0 | (0.0) |
| | Central African Republic | 0 | (0.0) |
| | 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 d'Ivoire | 0 | (0.0) |
| | Croatia | 0 | (0.0) |
| | Cuba | 0 | (0.0) |
| | Curacao | 0 | (0.0) |
| | Cyprus | 0 | (0.0) |
| | Czechia | 0 | (0.0) |
| | Denmark | 0 | (0.0) |
| | Djibouti | 0 | (0.0) |
| | Dominica | 0 | (0.0) |
| | Dominican Republic | 0 | (0.0) |
| | Ecuador | 0 | (0.0) |
| | Egypt | 0 | (0.0) |
| | El Salvador | 0 | (0.0) |
| | Equatorial Guinea | 0 | (0.0) |
| | Eritrea | 0 | (0.0) |
| | Estonia | 0 | (0.0) |

| label | levels | all | value |
|--------------|---------------|------------|--------------|
| | Ethiopia | 0 | (0.0) |
| | Fiji | 0 | (0.0) |
| | Finland | 0 | (0.0) |
| | France | 0 | (0.0) |
| | Gabon | 0 | (0.0) |
| | Gambia (The) | 0 | (0.0) |
| | Georgia | 0 | (0.0) |
| | Germany | 0 | (0.0) |
| | Ghana | 0 | (0.0) |
| | Greece | 0 | (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 | 0 | (0.0) |
| | Hungary | 0 | (0.0) |
| | Iceland | 0 | (0.0) |
| | India | 1 | (0.1) |
| | Indonesia | 0 | (0.0) |
| | Iran | 0 | (0.0) |
| | Iraq | 0 | (0.0) |
| | Ireland | 0 | (0.0) |
| | Israel | 0 | (0.0) |
| | Italy | 0 | (0.0) |
| | Jamaica | 0 | (0.0) |
| | Japan | 0 | (0.0) |
| | Jordan | 0 | (0.0) |
| | Kazakhstan | 0 | (0.0) |
| | Kenya | 0 | (0.0) |
| | Kiribati | 0 | (0.0) |
| | Korea (South) | 0 | (0.0) |
| | Kosovo | 0 | (0.0) |

| label | levels | all | value |
|--------------|------------------|------------|--------------|
| | 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) |
| | Madagascar | 0 | (0.0) |
| | Malawi | 0 | (0.0) |
| | Malaysia | 0 | (0.0) |
| | Maldives | 0 | (0.0) |
| | Mali | 0 | (0.0) |
| | Malta | 1 | (0.1) |
| | 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 | 0 | (0.0) |
| | Mozambique | 0 | (0.0) |
| | Namibia | 0 | (0.0) |
| | Nauru | 0 | (0.0) |
| | Nepal | 0 | (0.0) |
| | Netherlands | 0 | (0.0) |
| | New Zealand | 0 | (0.0) |
| | Nicaragua | 0 | (0.0) |

| label | levels | all | value |
|--------------|----------------------------------|------------|--------------|
| | Niger | 0 | (0.0) |
| | Nigeria | 0 | (0.0) |
| | North Korea | 0 | (0.0) |
| | Norway | 0 | (0.0) |
| | Oman | 0 | (0.0) |
| | Pakistan | 0 | (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) |
| | Poland | 0 | (0.0) |
| | Portugal | 0 | (0.0) |
| | Qatar | 0 | (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) |

| label | levels | all | value |
|--------------|----------------------|------------|--------------|
| | South Africa | 0 | (0.0) |
| | South Korea | 0 | (0.0) |
| | South Sudan | 0 | (0.0) |
| | Spain | 0 | (0.0) |
| | Sri Lanka | 0 | (0.0) |
| | Sudan | 0 | (0.0) |
| | Suriname | 0 | (0.0) |
| | Swaziland | 0 | (0.0) |
| | Sweden | 0 | (0.0) |
| | Switzerland | 0 | (0.0) |
| | Syria | 0 | (0.0) |
| | Taiwan | 0 | (0.0) |
| | Tajikistan | 0 | (0.0) |
| | Tanzania | 0 | (0.0) |
| | Thailand | 0 | (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 | 0 | (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 | 0 | (0.0) |
| | United States | 0 | (0.0) |
| | Uruguay | 0 | (0.0) |
| | Uzbekistan | 0 | (0.0) |
| | Vanuatu | 0 | (0.0) |
| | Venezuela | 0 | (0.0) |
| | Vietnam | 0 | (0.0) |
| | Yemen | 0 | (0.0) |
| | Zambia | 0 | (0.0) |
| | Zimbabwe | 0 | (0.0) |

| label | levels | all | value |
|-------|--------------------------|------|--------|
| | (Missing) | 1152 | (99.8) |
| | Afghanistan | 0 | (0.0) |
| | Albania | 0 | (0.0) |
| | Algeria | 0 | (0.0) |
| | Andorra | 0 | (0.0) |
| | Angola | 0 | (0.0) |
| | Antigua and Barbuda | 0 | (0.0) |
| | Argentina | 0 | (0.0) |
| | Armenia | 0 | (0.0) |
| | Aruba | 0 | (0.0) |
| | Australia | 0 | (0.0) |
| | Austria | 0 | (0.0) |
| | Azerbaijan | 0 | (0.0) |
| | Bahamas (The) | 0 | (0.0) |
| | Bahrain | 0 | (0.0) |
| | Bangladesh | 0 | (0.0) |
| | Barbados | 0 | (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 | 0 | (0.0) |
| | Burkina Faso | 0 | (0.0) |
| | Burma | 0 | (0.0) |
| | Burundi | 0 | (0.0) |
| | Cambodia | 0 | (0.0) |
| | Cameroon | 0 | (0.0) |
| | Canada | 0 | (0.0) |
| | Cabo Verde | 0 | (0.0) |
| | Central African Republic | 0 | (0.0) |

| label | levels | all | value |
|--------------|-------------------------|------------|--------------|
| | 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 d'Ivoire | 0 | (0.0) |
| | Croatia | 0 | (0.0) |
| | Cuba | 0 | (0.0) |
| | Curacao | 0 | (0.0) |
| | Cyprus | 0 | (0.0) |
| | Czechia | 0 | (0.0) |
| | Denmark | 0 | (0.0) |
| | Djibouti | 0 | (0.0) |
| | Dominica | 0 | (0.0) |
| | Dominican Republic | 0 | (0.0) |
| | Ecuador | 0 | (0.0) |
| | Egypt | 0 | (0.0) |
| | El Salvador | 0 | (0.0) |
| | Equatorial Guinea | 0 | (0.0) |
| | Eritrea | 0 | (0.0) |
| | Estonia | 0 | (0.0) |
| | Ethiopia | 0 | (0.0) |
| | Fiji | 0 | (0.0) |
| | Finland | 0 | (0.0) |
| | France | 0 | (0.0) |
| | Gabon | 0 | (0.0) |
| | Gambia (The) | 0 | (0.0) |
| | Georgia | 0 | (0.0) |
| | Germany | 0 | (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 | value |
|--------------|---------------|------------|--------------|
| | 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 | 1 | (0.1) |
| | Indonesia | 0 | (0.0) |
| | Iran | 0 | (0.0) |
| | Iraq | 0 | (0.0) |
| | Ireland | 0 | (0.0) |
| | Israel | 0 | (0.0) |
| | Italy | 0 | (0.0) |
| | Jamaica | 0 | (0.0) |
| | Japan | 0 | (0.0) |
| | Jordan | 0 | (0.0) |
| | Kazakhstan | 0 | (0.0) |
| | Kenya | 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 | value |
|--------------|-------------------------|------------|--------------|
| | 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 | 0 | (0.0) |
| | Mozambique | 0 | (0.0) |
| | Namibia | 0 | (0.0) |
| | Nauru | 0 | (0.0) |
| | Nepal | 0 | (0.0) |
| | Netherlands | 0 | (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 | 0 | (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 | value |
|--------------|----------------------------------|------------|--------------|
| | Poland | 0 | (0.0) |
| | Portugal | 0 | (0.0) |
| | Qatar | 0 | (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 | 0 | (0.0) |
| | South Korea | 0 | (0.0) |
| | South Sudan | 0 | (0.0) |
| | Spain | 0 | (0.0) |
| | Sri Lanka | 0 | (0.0) |
| | Sudan | 0 | (0.0) |
| | Suriname | 0 | (0.0) |
| | Swaziland | 0 | (0.0) |
| | Sweden | 0 | (0.0) |
| | Switzerland | 0 | (0.0) |
| | Syria | 0 | (0.0) |
| | Taiwan | 0 | (0.0) |
| | Tajikistan | 0 | (0.0) |

| label | levels | all | value |
|--|----------------------|------|--------|
| | Tanzania | 0 | (0.0) |
| | Thailand | 0 | (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 | 0 | (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 | 0 | (0.0) |
| | United States | 0 | (0.0) |
| | Uruguay | 0 | (0.0) |
| | Uzbekistan | 0 | (0.0) |
| | Vanuatu | 0 | (0.0) |
| | Venezuela | 0 | (0.0) |
| | Vietnam | 0 | (0.0) |
| | Yemen | 0 | (0.0) |
| | Zambia | 0 | (0.0) |
| | Zimbabwe | 0 | (0.0) |
| | (Missing) | 1153 | (99.9) |
| Contact with animals, raw meat or insect bi...symptom onset? | Yes | 0 | (0.0) |
| | No | 34 | (2.9) |
| | Unknown | 17 | (1.5) |
| | N/A | 2 | (0.2) |
| | (Missing) | 1101 | (95.4) |

Symptoms (detail)

Table 2

| Stratified: all | | all |
|------------------|-----|--------------|
| Total N (%) | | 1154 (100.0) |
| History of fever | YES | 497 (43.1) |
| | NO | 450 (39.0) |

| Stratified: all | | all |
|------------------------------------|-----------|------------|
| | Unknown | 43 (3.7) |
| | (Missing) | 164 (14.2) |
| Cough | YES | 444 (38.5) |
| | NO | 499 (43.2) |
| | Unknown | 46 (4.0) |
| | (Missing) | 165 (14.3) |
| Cough: with sputum production | YES | 158 (13.7) |
| | NO | 718 (62.2) |
| | Unknown | 110 (9.5) |
| | (Missing) | 168 (14.6) |
| Cough: bloody sputum / haemoptysis | YES | 18 (1.6) |
| | NO | 855 (74.1) |
| | Unknown | 113 (9.8) |
| | (Missing) | 168 (14.6) |
| Sore throat | YES | 55 (4.8) |
| | NO | 757 (65.6) |
| | Unknown | 169 (14.6) |
| | (Missing) | 173 (15.0) |
| Runny nose (Rhinorrhoea) | YES | 12 (1.0) |
| | NO | 794 (68.8) |
| | Unknown | 174 (15.1) |
| | (Missing) | 174 (15.1) |
| Ear pain | YES | 7 (0.6) |
| | NO | 795 (68.9) |
| | Unknown | 178 (15.4) |
| | (Missing) | 174 (15.1) |
| Wheezing | YES | 56 (4.9) |
| | NO | 810 (70.2) |
| | Unknown | 115 (10.0) |
| | (Missing) | 173 (15.0) |
| Chest pain | YES | 141 (12.2) |
| | NO | 755 (65.4) |
| | Unknown | 90 (7.8) |
| | (Missing) | 168 (14.6) |
| Muscle aches (Myalgia) | YES | 138 (12.0) |
| | NO | 700 (60.7) |

| Stratified: all | | all |
|-----------------------------------|-----------|------------|
| | Unknown | 145 (12.6) |
| | (Missing) | 171 (14.8) |
| Joint pain (Arthralgia) | YES | 51 (4.4) |
| | NO | 759 (65.8) |
| | Unknown | 174 (15.1) |
| | (Missing) | 170 (14.7) |
| Fatigue / Malaise | YES | 340 (29.5) |
| | NO | 533 (46.2) |
| | Unknown | 111 (9.6) |
| | (Missing) | 170 (14.7) |
| Shortness of breath (Dyspnea) | YES | 508 (44.0) |
| | NO | 445 (38.6) |
| | Unknown | 42 (3.6) |
| | (Missing) | 159 (13.8) |
| Lower chest wall indrawing | YES | 7 (0.6) |
| | NO | 793 (68.7) |
| | Unknown | 180 (15.6) |
| | (Missing) | 174 (15.1) |
| Headache | YES | 115 (10.0) |
| | NO | 726 (62.9) |
| | Unknown | 139 (12.0) |
| | (Missing) | 174 (15.1) |
| Altered consciousness / confusion | YES | 156 (13.5) |
| | NO | 741 (64.2) |
| | Unknown | 86 (7.5) |
| | (Missing) | 171 (14.8) |
| Seizures | YES | 13 (1.1) |
| | NO | 868 (75.2) |
| | Unknown | 98 (8.5) |
| | (Missing) | 175 (15.2) |
| Abdominal pain | YES | 143 (12.4) |
| | NO | 741 (64.2) |
| | Unknown | 98 (8.5) |
| | (Missing) | 172 (14.9) |
| Vomiting / Nausea | YES | 208 (18.0) |
| | NO | 704 (61.0) |

| Stratified: all | | all |
|------------------------|-----------|-------------|
| | Unknown | 73 (6.3) |
| | (Missing) | 169 (14.6) |
| Diarrhoea | YES | 155 (13.4) |
| | NO | 744 (64.5) |
| | Unknown | 82 (7.1) |
| | (Missing) | 173 (15.0) |
| Conjunctivitis | YES | 4 (0.3) |
| | NO | 818 (70.9) |
| | Unknown | 157 (13.6) |
| | (Missing) | 175 (15.2) |
| Skin rash | YES | 13 (1.1) |
| | NO | 825 (71.5) |
| | Unknown | 141 (12.2) |
| | (Missing) | 175 (15.2) |
| Skin ulcers | YES | 17 (1.5) |
| | NO | 823 (71.3) |
| | Unknown | 140 (12.1) |
| | (Missing) | 174 (15.1) |
| Lymphadenopathy | YES | 7 (0.6) |
| | NO | 836 (72.4) |
| | Unknown | 137 (11.9) |
| | (Missing) | 174 (15.1) |
| Bleeding (Haemorrhage) | YES | 24 (2.1) |
| | NO | 850 (73.7) |
| | Unknown | 105 (9.1) |
| | (Missing) | 175 (15.2) |
| If Bleeding (others) | YES | 0 (0.0) |
| | NO | 47 (4.1) |
| | Unknown | 4 (0.3) |
| | (Missing) | 1103 (95.6) |

Comorbidity (detail)

Table 3

| Stratified: all | | all |
|--------------------------|-----|--------------|
| Total N (%) | | 1154 (100.0) |
| Chronic cardiac disease) | YES | 244 (21.1) |

| Stratified: all | | all |
|--|-----------|------------|
| | NO | 712 (61.7) |
| | Unknown | 45 (3.9) |
| | (Missing) | 153 (13.3) |
| Chronic pulmonary disease (not asthma) | YES | 141 (12.2) |
| | NO | 808 (70.0) |
| | Unknown | 50 (4.3) |
| | (Missing) | 155 (13.4) |
| Asthma (physician diagnosed) | YES | 131 (11.4) |
| | NO | 824 (71.4) |
| | Unknown | 43 (3.7) |
| | (Missing) | 156 (13.5) |
| Chronic kidney disease | YES | 133 (11.5) |
| | NO | 822 (71.2) |
| | Unknown | 45 (3.9) |
| | (Missing) | 154 (13.3) |
| Moderate or severe liver disease | YES | 18 (1.6) |
| | NO | 925 (80.2) |
| | Unknown | 55 (4.8) |
| | (Missing) | 156 (13.5) |
| Mild Liver disease | YES | 25 (2.2) |
| | NO | 916 (79.4) |
| | Unknown | 57 (4.9) |
| | (Missing) | 156 (13.5) |
| Chronic neurological disorder | YES | 99 (8.6) |
| | NO | 848 (73.5) |
| | Unknown | 52 (4.5) |
| | (Missing) | 155 (13.4) |
| Malignant neoplasm | YES | 82 (7.1) |
| | NO | 857 (74.3) |
| | Unknown | 59 (5.1) |
| | (Missing) | 156 (13.5) |
| Chronic hematologic disease | YES | 42 (3.6) |
| | NO | 897 (77.7) |
| | Unknown | 58 (5.0) |
| | (Missing) | 157 (13.6) |
| AIDS/HIV | YES | 8 (0.7) |

| Stratified: all | | all |
|--|-----------|------------|
| | NO | 903 (78.2) |
| | Unknown | 87 (7.5) |
| | (Missing) | 156 (13.5) |
| Obesity (as defined by clinical staff) | YES | 83 (7.2) |
| | NO | 721 (62.5) |
| | Unknown | 190 (16.5) |
| | (Missing) | 160 (13.9) |
| Diabetes with complications | YES | 63 (5.5) |
| | NO | 847 (73.4) |
| | Unknown | 88 (7.6) |
| | (Missing) | 156 (13.5) |
| Diabetes without complications | YES | 120 (10.4) |
| | NO | 791 (68.5) |
| | Unknown | 86 (7.5) |
| | (Missing) | 157 (13.6) |
| Rheumatologic disorder | YES | 101 (8.8) |
| | NO | 838 (72.6) |
| | Unknown | 57 (4.9) |
| | (Missing) | 158 (13.7) |
| Dementia | YES | 98 (8.5) |
| | NO | 853 (73.9) |
| | Unknown | 47 (4.1) |
| | (Missing) | 156 (13.5) |
| Malnutrition | YES | 24 (2.1) |
| | NO | 853 (73.9) |
| | Unknown | 121 (10.5) |
| | (Missing) | 156 (13.5) |
| Smoking | YES | 70 (6.1) |
| | NO | 506 (43.8) |
| | N/K | 418 (36.2) |
| | (Missing) | 160 (13.9) |