COVID-19 in Dutch Intensive Care Units;



Patient characteristics and outcomes

compared with pneumonia patients in the ICU from 2017-2019

Version 2023-03-30

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Introduction

Despite the increased workload in patient care, all hospitals have put great effort in registering the data concerning COVID-19 patients. By using the online data entry system of the National Intensive Care Evaluation (NICE) foundation a limited amount of data (e.g. admission and discharge date and the age of the patient) on all COVID-19 patients has been recorded. By linking this data to more extensive clinical data, which are being collected regular by the NICE registration, it becomes possible to provide more clarity about the important characteristics and outcomes of COVID-19 patients. Because these extensive clinical data are subsequently supplied in batches from the electronic health record (EHR), these are not yet available for every COVID-19 patient. This means, when reading this report, make sure the results concern an overview of all COVID-19 patients or of COVID-19 patients who are linked to the extensive clinical data.

From February 25, 2021, all individual episodes of patients who have had multiple proven COVID-19 episodes will be included. An episode is defined as a consecutive hospital admission period (in one or more hospitals) in which a patient has tested positive at any time. Once a patient is discharged from hospital and after more than three days is re-admitted to hospital with proven COVID-19, this new hospitalization will be considered as a new COVID-19 episode. This allows one patient to have multiple COVID-19 episodes. This report uses data from all recorded episodes.

This report will be updated frequently in order to include more COVID-19 patients and more clinical data in the analyses. When only a limited amount of episodes can be linked this could lead to bias: a distortion of the results can occur if the linked episodes differ from the non-linked episodes, for instance because the patients of linked episodes have been discharged relatively quickly, or because they died. If more data are available, there will be more certainty about the shown differences between time periods and the associations between patient characteristics and their outcomes.

The data included in this report has been processed by the compilers with the utmost care. The compiler cannot be held liable in any way for information that is nevertheless incomplete or incorrect

In the table below the total number of admitted COVID-19 episodes, the COVID-19 episodes linked to the clinical data, and SARI patients are shown.

	Number of patients	Number of hospitals
All COVID-19 episodes	19948	72
Linked COVID-19 episodes	18903	72
SARI patients in 2017-2019	19822	80

Comparison COVID-19 with SARI

In this report, the data of the COVID-19 episodes will be compared with a group of patients who was admitted to a Dutch ICU with severe pneumonia between the period of 1 January 2017 till 31 December 2019. This group is being called Severe Acute Respiratory Infection (SARI). In this report, SARIs will be defined based on the following (APACHE IV) reasons of admission: Pulmonary sepsis; Viral pneumonia; Aspiration pneumonia; Bacterial pneumonia; Fungal pneumonia; Parasitic pneumonia (i.e. Pneumocystis pneumonia); Other pneumonia.

ICU length of stay

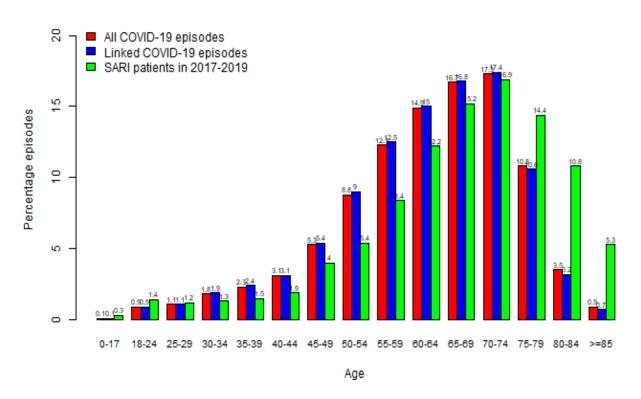
The table below shows the mean ICU length of stay of all COVID-19 episodes and admitted SARI patients, of the COVID-19 episodes of which the patients are still in the ICU, and of COVID-19 episodes and SARI patients who have been discharged recently split up into different discharge destinations. If a COVID-19 patient has been transferred to another ICU during the episode, all ICU length of stays will be added up together. The length of stay is calculated in days ((discharge date - admission date)+1).

	Number of COVID-19 episodes	Mean length of stay (SD)	Number of SARI patients	Mean length of stay (SD)
Patients who are currently being treated in the ICU *	60	53.7 (121.2)	0	-
Discharged to nursing ward in same or different hospital	14179	15.1 (18.4)	14119	5.9 (9.6)
Other discharge destination	908	15.4 (22.6)	2238	7.1 (11.1)
Died in the ICU	4801	17.5 (17.9)	3465	7.1 (10.5)
TOTAL	19948	15.8 (19.7)	19822	6.2 (10.0)

^{*}N.B. For the COVID-19 episodes of which the patient is currently admitted, it concerns the ICU length of stay up till the moment that this report was generated and not the final total length of stay.

The figure and table below show the age distribution of all COVID-19 episodes, the linked COVID-19 episodes and the SARI patients.

Age distribution patients

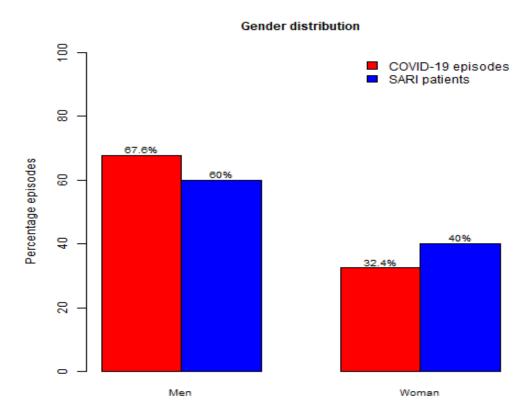


	Mean age (SD)
All COVID-19 episodes	62.3 (12.8)
Linked COVID-19 episodes	62.1 (12.7)
SARI patients in 2017-2019	66.3 (14.2)

Patient characteristics

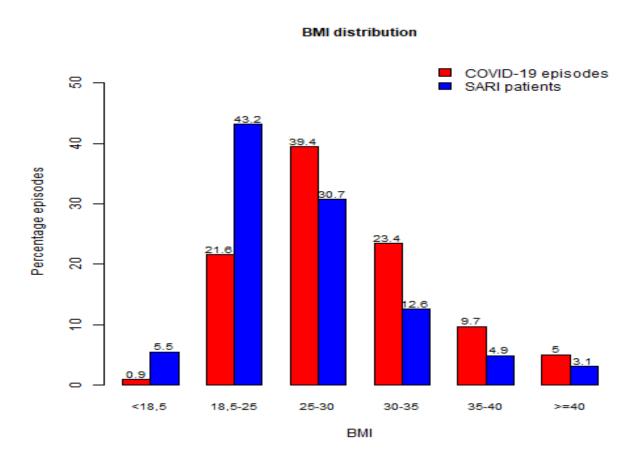
In the remainder of this report, the extensive data from the NICE registration will be used. Therefore, from here on, only the linked COVID-19 episodes will be included. This group will continuously be compared with the SARI patients who have been admitted to the ICU in the previous three years (2017-2019).

In the figure below the distribution of men and women in the linked COVID-19 episodes and the SARI patients is shown.



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In the graph below, the BMI-distribution of the linked COVID-19 episodes and the SARI patients is shown.



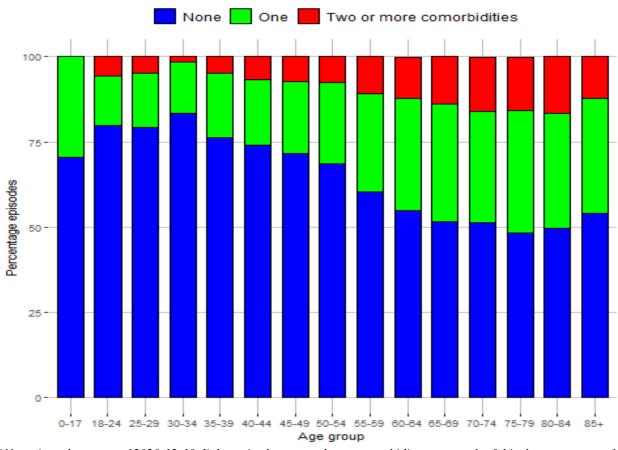
	Mean BMI (SD)
Linked COVID-19 episodes	29.3 (5.7)
SARI patients in 2017-2019	26.2 (5.9)

The table below shows for several different comorbidities (secondary diagnoses) the number and percentage of episodes of which the patient had the concerning comorbidity. Additionally, this table shows the number and percentage of episodes of which the patient were mechanically ventilated at ICU admission, and that were mechanically ventilated within the first 24 hours of ICU admission.

	COVID-19 episodes	-
	N(%)	N(%)
COPD/Respiratory insufficiency	2502 (13.2)	7543 (38.1)
Renal failure	910 (4.8)	1724 (8.7)
Cirrhosis	107 (0.6)	238 (1.2)
Cardiovascular insufficiency	345 (1.8)	765 (3.9)

	COVID-19 episodes	SARI patients
	N(%)	N(%)
Malignancy/Haematological insufficiency	648 (3.4)	1962 (9.9)
Immunological insufficiency	2110 (11.2)	3814 (19.2)
Diabetes	4147 (21.9)	4000 (20.2)
Mechanically ventilated at ICU admission	5528 (29.2)	7934 (40.0)
Mechanically ventilated within the 1st 24 hours	11307 (59.8)	11136 (56.2)

In the graph below, the percentage of COVID-19 episodes of which the patient had no, one or more than one comorbidities are given for different age groups.



^{*}Note since the report of 2020-12-10 diabetes is also counted as a comorbidity, as a result of this the percentage of episodes of which patient had one or more comorbidities may have increased compared to previous reports.

Patient outcomes and determinants

In the table below important characteristics belonging to COVID-19 episodes of which the patient died are compared with COVID-19 episodes of which the patient survived. N.B. This analysis excludes the episodes of which the patient is still admitted at the Intensive Care. However, the number of these episodes are being shown in the last column of the table. The listed percentages should be read horizontally.

Per patient characteristic, the number and percentage of episodes of which the patient deceased and survived has been displayed. The column containing the P-value shows whether the differences between the episodes of deceased and survived patients are statistically significant. A P-value smaller than 0.05 shows that the presented differences are statistically significant (cannot be explained based on coincidence). A P-value of 0.05 or bigger means that the discovered differences are probably a coincidence.

Finally, the association between the patient characteristic and mortality is shown with Odds Ratio's (OR). An OR shows approximately how much the risk of dying is increased in relation to the comparison category, also known as the reference population. Regarding age: due to the small numbers, the seven youngest age categories have been combined into one reference population. Therefore, in the remaining age categories the OR indicate how much more the risk of dying is increased in comparison to this reference population. The 95%-confidence interval (CI) of the OR is displayed in the second last column and indicates whether the association found between the patient characteristics and mortality is statistically significant (confidence interval does NOT include 1) or not significant (confidence interval DOES include1).

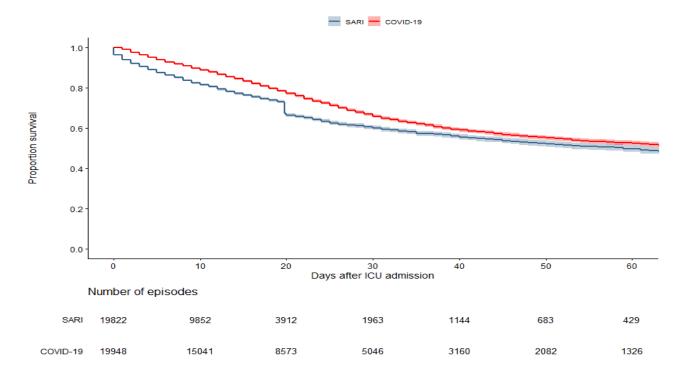
	COVID-19 survivors N (%)	COVID-19 deceased N (%)	P-value	Odds ratio (95% CI)	COVID- 19 still in hospital N
All episodes	13436 (72)	5221 (28)			246
Age groups			< 0.001		
0-17	15 (93.8)	1 (6.2)		reference	1
18-24	164 (96.5)	6 (3.5)		reference	3
25-29	190 (93.6)	13 (6.4)		reference	5
30-34	332 (96)	14 (4.0)		reference	6
35-39	422 (94)	27 (6.0)		reference	
40-45	530 (91.1)	52 (8.9)		reference	3 8
45-50	914 (91)	90 (9.0)		reference	7
50-55	1454 (86.7)	223 (13.3)		1.94 (1.59-2.38)	32
55-60	1944 (83.7)	379 (16.3)		2.47 (2.06-2.96)	32
60-65	2127 (76)	670 (24)		3.99 (3.38-4.72)	31
65-70	2089 (66.8)	1038 (33.2)		6.3 (5.36-7.40)	31
70-75	1886 (58.1)	1362 (41.9)		9.16 (7.81-10.73)	51
75-80	1014 (51.1)	971 (48.9)		12.14 (10.27-14.36)	51
80-85	289 (48.1)	312 (51.9)		13.69 (11.05-16.96)	51
>85	59 (48.4)	63 (51.6)		13.54 (9.23-19.85)	51
Gender			< 0.001		
Men	8844 (70.1)	3769 (29.9)		reference	171
Woman	4592 (76)	1452 (24)		0.74 (0.69-0.8)	75

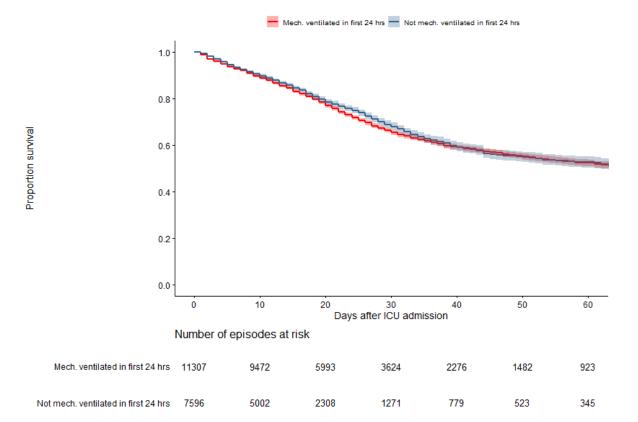
	COVID-19 survivors N (%)	COVID-19 deceased N (%)	P-value	Odds ratio (95% CI)	COVID- 19 still in hospital N
BMI groups			< 0.001		
<18.5	104 (64.6)	57 (35.4)	(0.001	1.19 (0.86-1.66)	8
18.5-25	2665 (68.2)	1244 (31.8)		reference	65
25-30	5092 (70.9)	2091 (29.1)		0.89 (0.82-0.97)	87
30-35	3197 (74.9)	1073 (25.1)		0.73 (0.67-0.8)	51
35-40	1343 (76.1)	421 (23.9)		0.68 (0.6-0.77)	18
>40	700 (77.7)	201 (22.3)		0.63 (0.53-0.74)	12
Comorbidities					
COPD & respiratory insufficiency No	11881 (73.4)	4316 (26.6)	< 0.001	reference	204
COPD & respiratory insufficiency Yes	1555 (63.2)	905 (36.8)		1.6 (1.47-1.75)	42
Renal failure No	13004 (73.2)	4759 (26.8)	< 0.001	reference	230
Renal failure Yes	432 (48.3)	462 (51.7)		2.92 (2.55-3.35)	16
Cardiovascular insufficiency No	13255 (72.4)	5065 (27.6)	< 0.001	reference	238
Cardiovascular insufficiency Yes	181 (53.7)	156 (46.3)		2.26 (1.82-2.8)	8
Malignancy No	13113 (72.8)	4903 (27.2)	< 0.001	reference	239
Malignancy Yes	323 (50.4)	318 (49.6)		2.63 (2.25-3.08)	7
Immunological insufficiency No	12231 (73.7)	4354 (26.3)	< 0.001	reference	208
Immunological insufficiency Yes	1205 (58.2)	867 (41.8)		2.02 (1.84-2.22)	38
Number of comorbidities			< 0.001		
None	8396 (77.8)	2401 (22.2)		reference	136
1	3837 (68.4)	1769 (31.6)		1.59 (1.48-1.71)	71
>1	1200 (53.3)	1051 (46.7)		2.98 (2.71-3.28)	39
Diagnoses at ICU-admission					
Cardiopulmonary resuscitation No	13284 (72.6)	5003 (27.4)	< 0.001	reference	242
Cardiopulmonary resuscitation Yes	152 (41.1)	218 (58.9)		3.81 (3.09-4.7)	4
Mechanical ventilation at admission No	9848 (74.6)	3357 (25.4)	< 0.001	reference	170
Mechanical ventilation at admission Yes	3588 (65.8)	1864 (34.2)	0.440	1.52 (1.42-1.63)	76
Gastrointestinal bleeding No	13389 (72)	5198 (28)	0.418	reference	246
Gastrointestinal bleeding Yes	47 (67.1)	23 (32.9)	0.001	1.26 (0.76-2.08)	0
Diabetes No	10728 (73.7)	3823 (26.3)	< 0.001	reference	202
Diabetes Yes	2705 (65.9)	1398 (34.1)		1.45 (1.35-1.56)	44
Diagnoses in 1st 24 hours of ICU-admission					
Acute renal failure No	12761 (74)	4482 (26)	< 0.001	reference	224
Acute renal failure Yes	12761 (74)	739 (52.3)	<0.001	3.12 (2.79-3.48)	224
Mechanical ventilation within the 1st 24	675 (47.7) 5885 (78.5)	1612 (21.5)	< 0.001	5.12 (2.79-5.48) reference	99
hours No	3003 (70.3)	1012 (21.3)	\U.UU1	TOTOTOTICC	77
Mechanical ventilation within the 1st 24	7551 (67.7)	3609 (32.3)		1.74 (1.63-1.87)	147
hours Yes	7551 (07.7)	3007 (32.3)		1.77 (1.05-1.07)	17/
Confirmed infection No	3011 (73.7)	1074 (26.3)	0.007	reference	56
Confirmed infection Yes	10425 (71.5)	4147 (28.5)	0.007	1.12 (1.03-1.21)	190
Vasoactive medication No	7315 (77.9)	2070 (22.1)	< 0.001	reference	112
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Kaplan Meier survival curve

In the figure below, one can see a first estimate of the percentage of COVID-19 episodes (the vertical axis) of which patients survived the hospitalisation, including a period in ICU, since the day of ICU admission until a certain moment in time (the horizontal axis). In the first figure a distinction has been made between all COVID-19 episodes (black line), the linked COVID-19 episodes (red line) and the SARI patients from the years 2017-2019 (blue line). The second figure shows the linked COVID-19 episodes of which the patient has (red line) or has not (blue line) been mechanically ventilated at the first day of admission.

These estimations have to be interpreted with care, because the episodes of which the patient is currently being treated have been included in these analyses too and consequently their outcome is not yet known. Therefore, based on this figure we cannot conclude that COVID-19 patients have a better prognosis compared to the SARIs. The current group of COVID-19 episodes and the previous SARI patients possibly differ regarding important clinical characteristics such as age and secondary diseases such as diabetes or COPD. Further research could prove whether the survival chance differs between the COVID-19 and SARI population.





Groups of COVID-19 patients admitted to the ICU and their survival chances

To provide more insight into the chance of survival of COVID-19 patients at the time of ICU admission, a table with survival chances of different COVID-19 patients groups has been made based on the data of 13,389 COVID-19 patients admitted to the ICU between February 27, 2020 and November 23, 2021. In the analyses, the in-hospital mortality/survival was used as outcome measure. The MDS data items known at the time of ICU admission were used to identify distinguishing groups: admission type, age, gender, readmission, referring specialty, BMI, duration of treatment before ICU admission, number of chronic comorbidities (being one of the following comorbidities defined in the NICE Data Dictionary: (1) immunologic insufficiency or AIDS; (2) chronic renal failure or chronic dialysis; (3) respiratory failure or COPD; (4) neoplasm or haematological malignancy; (5) cardiovascular insufficiency; (6) liver cirrhosis; (7) diabetes). The groups as shown in the table were generated using a regression tree analysis. For a more detailed explanation, see

https://stichting-nice.nl/download/file?link=HulpmiddelCOVIDpatie776ntenvoorICopname.

Age	Number of comorbidities	Survival chance
<58	<1	90.0%
_ ≥59 en ≤65	_ ≤1	78.8%
≥66 en ≤70		66.4%
≤65	≥2	62.5%
≥71 en ≤77	0	60.3%
≥71 en ≤77	≥1	48.6%
≥78		41.2%

Variations over time

COVID-19 is a new clinical condition for which new knowledge is continuously being obtained, new treatment methods are used and as a result the prognoses / outcomes of the patients may change. To provide insight into these changes, the section below of the report will break down some important patient characteristics and outcomes into two-month periods of the COVID-19 epidemic.

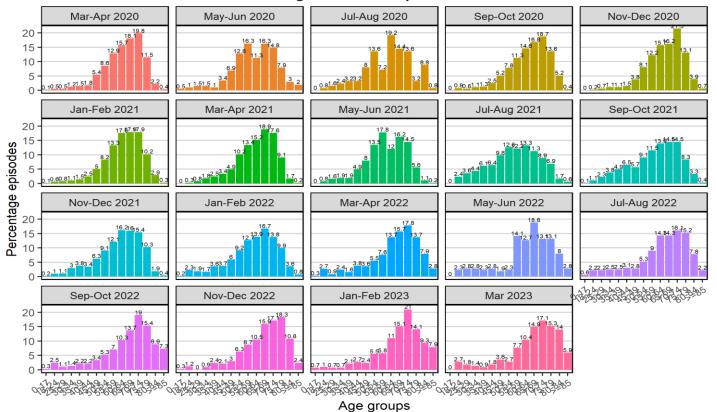
The table below shows the number of COVID-19 episodes per two months.

		Number of episodes of	Number of
	Number of	which the patient is	episodes linked to
	episodes	deceased (%) *	clinical data (%)
March-April 2020	2673	820 (30.7)	2608 (97.6)
May-June 2020	203	37 (18.2)	195 (96.1)
July-August 2020	125	30 (24)	120 (96)
Sept-Oct 2020	1421	469 (33)	1372 (96.6)
Nov-Dec 2020	2200	718 (32.6)	2091 (95)
Jan-Feb 2021	2025	563 (27.8)	1986 (98.1)
March-April 2021	2963	747 (25.2)	2926 (98.8)
May-June 2021	1109	224 (20.2)	1096 (98.8)
July-August 2021	723	142 (19.6)	713 (98.6)
Sept-Oct 2021	733	210 (28.6)	721 (98.4)
Nov-Dec 2021	2386	690 (28.9)	2252 (94.4)
Jan-Feb 2022	887	235 (26.5)	840 (94.7)
March-April 2022	747	183 (24.5)	670 (89.7)
May-June 2022	213	63 (29.6)	200 (93.9)
July-August 2022	323	69 (21.4)	294 (91)
Sept-Oct 2022	358	94 (26.3)	318 (88.8)
Nov-Dec 2022	333	78 (23.4)	295 (88.6)
Jan-Feb 2023	291	81 (27.8)	173 (59.5)
March 2023	222	42 (18.9)	25 (11.3)

^{*} Note a large proportion of patients of the episodes from the more recent periods are still hospitalized of which a part may still die, so the numbers can still rise (considerably).

The figure and table below shows the age distribution of the patients from all COVID-19 episodes over different time periods.

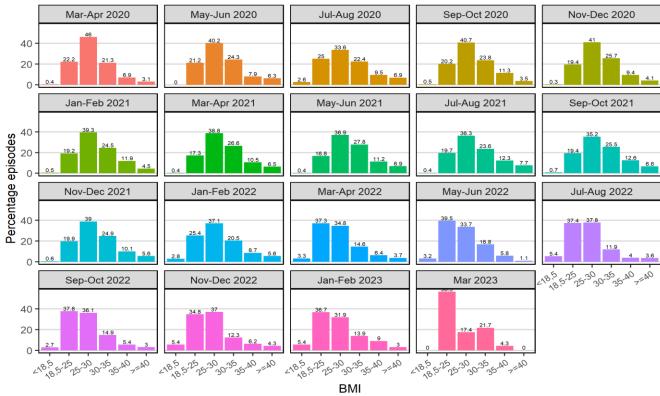
Age distribution patients



·	Mean age (SD)	Median Age (IQR)
March-April 2020	63.4 (11.2)	65 (57-72)
May-June 2020	61.1 (13.1)	62 (53-70)
July-August 2020	60.5 (13.4)	64 (51-70)
Sept-Oct 2020	64.1 (11.9)	66 (57-73)
Nov-Dec 2020	64.7 (11.1)	66 (58-73)
Jan-Feb 2021	62.8 (11.5)	64 (57-71)
March-April 2021	61.8 (11.7)	64 (55-71)
May-June 2021	59.1 (12.0)	59 (52-69)
July-August 2021	55.2 (14.6)	56 (46-66)
Sept-Oct 2021	58.9 (14.4)	61 (50-70)
Nov-Dec 2021	60.5 (13.2)	63 (53-71)
Jan-Feb 2022	60.3 (14.1)	63 (53-70)
March-April 2022	64.0 (14.9)	67 (57-74)
May-June 2022	63.4 (15.3)	67 (58-74)
July-August 2022	63.6 (15.5)	66 (58-75)
Sept-Oct 2022	66.2 (15.3)	70 (59-76)
Nov-Dec 2022	66.6 (13.2)	69 (60-76)
Jan-Feb 2023	67.4 (14.1)	70 (62-76)
March 2023	67.2 (15.2)	71 (61-78)

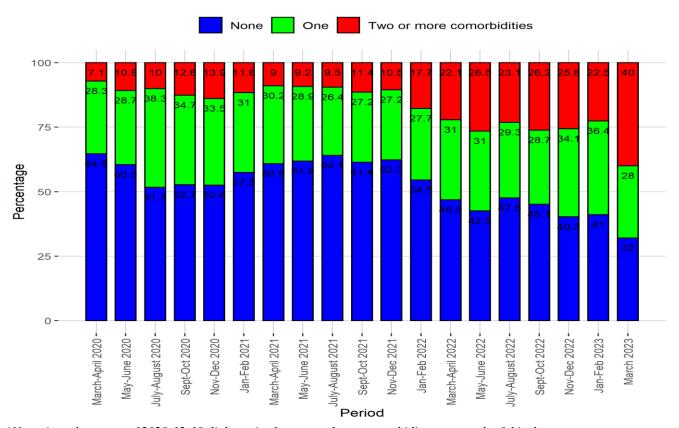
The figure and table below shows the BMI distribution of the patients of all COVID-19 episodes over different time periods.





	Mean BMI (SD)	Median BMI (IQR)
March-April 2020	28.7 (4.9)	27.8 (25.3-31.1)
May-June 2020	29.6 (6.0)	28.6 (25.5-32.4)
July-August 2020	29.3 (6.6)	27.9 (24.7-32.8)
Sept-Oct 2020	29.3 (5.3)	28.7 (25.6-32.0)
Nov-Dec 2020	29.4 (5.3)	28.4 (25.7-32.4)
Jan-Feb 2021	29.7 (5.5)	28.8 (25.8-32.8)
March-April 2021	30.1 (5.9)	29.1 (26.0-32.9)
May-June 2021	30.3 (6.0)	29.4 (26.1-33.5)
July-August 2021	30.2 (6.3)	29.3 (25.8-33.7)
Sept-Oct 2021	30.2 (6.3)	29.3 (26.0-33.4)
Nov-Dec 2021	29.6 (5.7)	28.7 (25.8-32.7)
Jan-Feb 2022	28.8 (6.3)	27.8 (24.7-31.9)
March-April 2022	27.3 (6.0)	26.3 (23.5-29.7)
May-June 2022	26.7 (5.6)	26.0 (22.8-29.6)
July-August 2022	26.6 (5.7)	25.7 (23.1-29.4)
Sept-Oct 2022	27.0 (5.7)	26.3 (23.4-29.5)
Nov-Dec 2022	27.1 (6.5)	26.5 (23.0-29.5)
Jan-Feb 2023	26.9 (6.2)	26.0 (22.6-30.4)
March 2023	25.7 (4.5)	24.7 (22.0-29.8)

In the graph below, the percentage episodes of which the patients had no, one or more than one comorbidities are given for different periods.



*Note since the report of 2020-12-10 diabetes is also counted as a comorbidity, as a result of this the percentage episodes of which patients had no, one or more than one comorbidities may have increased compared to previous reports.

The table below shows per two months period the mean ICU length of stay of all COVID-19 episodes, of the COVID-19 episodes of which the patient is still in the ICU, and of COVID-19 episodes of which the patient has been discharged recently split up into different discharge destinations. If a patient has been transferred to another ICU during an episode, all ICU length of stays will be added up together. The length of stay is calculated in days ((discharge date - admission date)+1). Note that the most recent period still yields many uncertain results because a large part of this population is still included, so the averages shown will most likely increase.

	Number of episodes	Mean length of ICU stay (SD)
Period March-April 2020		
Patients who are currently being treated in the ICU *	0	-
Discharged to nursing ward in same or different hospital	1819	21.9 (17.3)
Other discharge destination	105	27.1 (33.7)
Died in the ICU	749	15.9 (18.4)
TOTAL	2673	20.4 (18.7)

Period May-June 2020

Patients who are currently being treated in the ICU * 0		Number of episodes	Mean length of ICU stay (SD)
Discharged to nursing ward in same or different hospital Other discharge destination Died in the ICU 30 30 13.4 (10.4)	Patients who are currently being treated in the ICU *		-
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Died in the ICU 200 19.6 (14.8) TOTAL 1109 16.1 (17.2) Period July-August 2021 Patients who are currently being treated in the ICU * 0 -	Discharged to nursing ward in same or different hospital	869	14.9 (17.0)
Died in the ICU 200 19.6 (14.8) TOTAL 1109 16.1 (17.2) Period July-August 2021 Patients who are currently being treated in the ICU * 0 -		40	' '
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Period July-August 2021 Patients who are currently being treated in the ICU * 0 -	TOTAL	1109	
Patients who are currently being treated in the ICU * 0 -	Period July-August 2021		
· · · · · · · · · · · · · · · · · · ·	· ·	0	-
	Discharged to nursing ward in same or different hospital	558	14.3 (16.6)

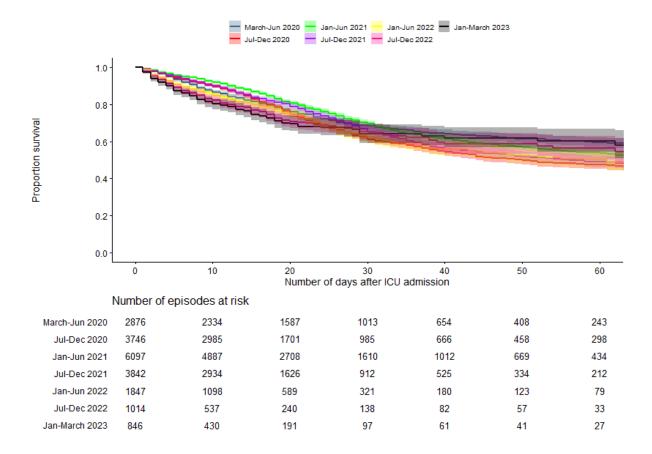
	Number of	Mean length of
	episodes	ICU stay (SD)
Other discharge destination	36	23.1 (32.7)
Died in the ICU	129	20.4 (14.6)
TOTAL	723	15.8 (17.6)
Period Sept-Oct 2021		
Patients who are currently being treated in the ICU *	2	545 (39.6)
Discharged to nursing ward in same or different hospital	529	14 (14.5)
Other discharge destination	23	11.6 (14.0)
Died in the ICU	179	20.3 (13.8)
TOTAL	733	16.9 (31.3)
Period Nov-Dec 2021		
Patients who are currently being treated in the ICU *	1	475 (-)
Discharged to nursing ward in same or different hospital	1645	14 (14)
Other discharge destination	140	15.4 (19)
Died in the ICU	600	16.7 (13)
TOTAL	2386	14.9 (17.1)
Period Jan-Feb 2022		
Patients who are currently being treated in the ICU *	0	-
Discharged to nursing ward in same or different hospital	636	11.1 (14.7)
Other discharge destination	48	9.4 (11.6)
Died in the ICU	203	19.0 (29.6)
TOTAL	887	12.8 (19.3)
Period March-April 2022		
Patients who are currently being treated in the ICU *	1	376 (-)
Discharged to nursing ward in same or different hospital	523	7.2 (10.1)
Other discharge destination	72	5.0 (8.2)
Died in the ICU	151	11.6 (12.2)
TOTAL	747	8.4 (17.1)
Period May-June 2022	_	
Patients who are currently being treated in the ICU *	0	-
Discharged to nursing ward in same or different hospital	146	6.2 (6.7)
Other discharge destination	16	13.6 (20.6)
Died in the ICU	51	9.6 (8.4)
TOTAL	213	7.6 (9.1)
Period July-August 2022	_	
Patients who are currently being treated in the ICU *	0	-
Discharged to nursing ward in same or different hospital	219	8.0 (11.7)
Other discharge destination	47	5.6 (7.3)
Died in the ICU	57	7.7 (9.4)
TOTAL	323	7.6 (10.8)
Period Sept-Oct 2022		4.70 ()
Patients who are currently being treated in the ICU *	1	153 (-)
Discharged to nursing ward in same or different hospital	242	5.7 (6.8)
Other discharge destination	51	8.4 (11.3)
Died in the ICU	64	8.3 (7.6)

	Number of	Mean length of
TOTAL	episodes 358	ICU stay (SD) 7.0 (11.0)
Period Nov-Dec 2022		710 (1110)
Patients who are currently being treated in the ICU *	3	99.3 (2.9)
Discharged to nursing ward in same or different hospital	240	6.6 (7.5)
Other discharge destination	34	6.5 (5.9)
Died in the ICU	56	9.7 (11.1)
TOTAL	333	7.9 (11.9)
Period Jan-Feb 2023		,
Patients who are currently being treated in the ICU *	7	42.1 (19.1)
Discharged to nursing ward in same or different hospital	173	5.5 (6.6)
Other discharge destination	40	4.5 (5.3)
Died in the ICU	71	7.5 (6.9)
TOTAL	291	6.8 (9.0)
Period March 2023		
Patients who are currently being treated in the ICU *	45	11.9 (7.7)
Discharged to nursing ward in same or different hospital	119	4.0 (2.9)
Other discharge destination	23	4.1 (3.5)
Died in the ICU	35	5.5 (4.2)
TOTAL	222	5.9 (5.5)

^{*}N.B. For the COVID-19 episodes of which the patient is currently admitted, it concerns the ICU length of stay up till the moment that this report was generated and not the final total length of stay.

The figure below shows an initial estimate per period of the percentage of COVID-19 episodes (the vertical axis) of which the patient survived hospitalization, including admission to the ICU, until a certain moment (the horizontal axis) after the start of the ICU admission.

These estimates must be interpreted with caution, because the patients who are currently being treated have also been included and the outcome of them is therefore not yet known.



The table below shows the (univariate) Odds Ratio (OR) of the two monthly periods. An OR shows approximately how much the risk of dying is increased in relation to the reference group, i.e. the months March and April. The 95% confidence interval of the OR indicates whether the relationship found between the period and mortality is significant (confidence interval includes 1 NOT) or not significant (confidence interval includes 1 DO). Note this is a univariate analysis meaning that no adjustment has been made for differences in patient characteristics over time. It is also important to realize that a large proportion of patients from the episodes of the more recent periods are still hospitalized. These are included in the calculations as survivors, while a part may still die, so that the odds ratio can still rise (considerably).

	Odda ratio (CI)
7.5	Odds ratio (CI)
March-April 2020	Reference
May-June 2020	0.50 (0.35-0.73)
July-August 2020	0.71 (0.47-1.08)
Sept-Oct 2020	1.11 (0.97-1.28)
Nov-Dec 2020	1.09 (0.97-1.24)
Jan-Feb 2021	0.87 (0.77-0.99)
March-April 2021	0.76 (0.68-0.86)
May-June 2021	0.57 (0.48-0.68)
July-August 2021	0.55 (0.45-0.68)
Sept-Oct 2021	0.91 (0.76-1.09)
Nov-Dec 2021	0.92 (0.81-1.04)
Jan-Feb 2022	0.81 (0.69-0.97)
March-April 2022	0.73 (0.61-0.88)
May-June 2022	0.95 (0.70-1.29)
July-August 2022	0.61 (0.46-0.81)
Sept-Oct 2022	0.80 (0.63-1.03)
Nov-Dec 2022	0.69 (0.53-0.90)
Jan-Feb 2023	0.87 (0.67-1.14)
March 2023	0.53 (0.37-0.75)

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COVID-19 and SOFA

For this report, the data of the COVID-19 episodes are also linked to the information about organ failure that is supplied to NICE in the Sequential Organ Failure Assessment (SOFA) registration module. About half of the ICUs in the Netherlands register this SOFA data. In the table below, in addition to the number of COVID-19 episodes that could be linked to the clinical information, the number of COVID-19 episodes that could be linked to the SOFA data is shown.

	Number of COVID-19 episodes
Linked to clinical (MDS) data	18903
Linked to organ failure (SOFA) data	9997

The table below shows in how many COVID-19 episodes and how many SARI patients received treatment with different types of organ support. For the patients receiving the particular organ support it is also shown how many calendar days they received this support on average during the ICU admission. Finally, the average number of calendar days on which the measured platelet was <50 is shown.

			SARI	Mean
	COVID-19	Mean number	patients	number of
	episodes N (%)	of days (SE)	N (%)	days (SE)
Basic respiratory support	7029 (70.3)	10.2 (11.5)	5107 (59)	6.5 (8.5)
Advanced respiratory support	50 (0.5)	3.6 (7.2)	169 (2)	3.7 (6.7)
Artificial liver support	1 (0)	1 (-)	0 (0)	-
Cardiac support using cardiac assist device	41 (0.4)	6.4 (12.7)	56 (0.6)	10.6 (14.4)
Renal support using renal replacement therapy	758 (7.6)	9.8 (10.1)	565 (6.5)	8 (9.4)
Measured platelets value <50	523 (5.2)	2.5 (3.4)	513 (5.9)	4.8 (5.6)