

COVID Aerosols - Merged Data Codebook

Autogenerated data summary from dataMaid

2021-01-06 09:42:40

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	55
Number of variables	86

Codebook summary table

Label	Variable	Class	# unique values	Missing	Description
Sample ID	sampleid	character	55	0.00 %	
Date of collection	colldate	character	21	0.00 %	
Outdoor CO2 level on date of collection (ppm)	outdoorco2	numeric	15	0.00 %	
Hospital name	hosp	character	7	0.00 %	
Sampling location	samploc	character	10	0.00 %	
Type of sampling space	loctype	character	6	0.00 %	
Start time	starttime	character	36	0.00 %	
Ambient temperature at start (C)	tempstart	numeric	42	0.00 %	
Ambient humidity at start	humiditystart	numeric	53	0.00 %	
CO2 level at start of collection (ppm)	co2start	numeric	53	0.00 %	
Number of COVID patients	numcovidstart	numeric	18	0.00 %	
Number of non-COVID patients	numnoncovidstart	numeric	5	0.00 %	
Number of staff	numstaffstart	numeric	9	1.82 %	
Number of people other than patients or staff (visitors, etc.)	numotherstart	numeric	20	0.00 %	
Number of people wearing masks	nummasksstart	numeric	3	96.36 %	
People_start	numpeoplestart	numeric	31	1.82 %	
Number of patients using nasal cannula	numnasal	numeric	5	1.82 %	

Label	Variable	Class	# unique values	Missing	Description
Number of patients using oxygen masks	numoxymask	numeric	9	1.82 %	
Number of patients using CPAP (non-invasive ventilation)	numcpap	numeric	1	0.00 %	
Number of patients intubated	numintub	numeric	3	0.00 %	
Distance of air sampler from nearest patient (feet, convert inches to decimal)	distpatient	numeric	41	0.00 %	
Distance of air sampler from nearest window (feet, convert inches to decimal)	distwindow	numeric	40	0.00 %	
Is the nearest window open or closed?	nearwindowopen	character	3	0.00 %	
Distance of air sampler from nearest door (feet, convert inches to decimal)	distdoor	numeric	52	1.82 %	
Is the nearest door open or closed?	neardooropen	character	2	0.00 %	
Number of COVID patients (15 minutes)	numcovidmid	numeric	20	5.45 %	
Number of non-COVID patients (15 minutes)	numnoncovidmid	numeric	5	3.64 %	
Number of staff (15 minutes)	numstaffmid	numeric	8	3.64 %	
Number of people other than patients or staff (15 minutes)	numothermid	numeric	21	3.64 %	
People_midpoint	numpeoplemid	numeric	26	5.45 %	
Number of windows fully open	numwinfullopen	numeric	6	3.64 %	
Number of windows partially open	numwinpartopen	numeric	8	0.00 %	
Number of windows closed	numwinclosed	numeric	11	0.00 %	
	numwinopen	numeric	9	3.64 %	
	numwintotal	numeric	15	3.64 %	
Number of doors fully open (doors leading to external corridor or separate room,	numdoorfullopen	numeric	5	0.00 %	
Number of doors partially open (doors leading to external corridor or separate r	numdoorpartopen	numeric	4	0.00 %	
Number of doors closed (doors leading to external corridor or separate room, not	numdoorclosed	numeric	7	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
Total number of fans Number of fans in operation	numdoortotal	numeric	10	0.00 %	
	numdooropen	numeric	6	0.00 %	
	totfan	numeric	19	1.82 %	
	numfanon	numeric	15	40.00 %	
Number of air conditioning units in operation	numacon	numeric	6	1.82 %	
Room width (feet, convert inches to decimal)	roomwidth	numeric	39	23.64 %	
Room length (feet, convert inches to decimal)	roomlength	numeric	40	23.64 %	
Room height (feet, convert inches to decimal)	roomheight	numeric	29	0.00 %	
Room area (ft cub)	roomarea	numeric	38	32.73 %	
End time	endtime	character	32	0.00 %	
Ambient temperature at end (C)	tempend	numeric	48	1.82 %	
CO2 level at end of collection (ppm)	co2end	numeric	54	1.82 %	
Ambient humidity at end	humidityend	numeric	41	1.82 %	
Number of COVID patients (endpoint)	numcovidend	numeric	20	1.82 %	
Number of non-COVID patients (endpoint)	numnoncovidend	numeric	7	1.82 %	
Number of staff (endpoint)	numstaffend	numeric	8	1.82 %	
Number of people other than patients or staff (endpoint)	numotherend	numeric	22	1.82 %	
People_end	peopleend	numeric	31	1.82 %	
CO2 level at 5 minutes (ppm)	co2_5min	numeric	53	3.64 %	
CO2 level at 10 minutes (ppm)	co2_10min	numeric	51	5.45 %	
CO2 level at 15 minutes (ppm)	co2_15min	numeric	50	5.45 %	
CO2 level at 20 minutes (ppm)	co2_20min	numeric	52	7.27 %	
CO2 level at 25 minutes (ppm)	co2_25min	numeric	52	5.45 %	
Notes:	notes	character	49	12.73 %	
	_id	numeric	55	0.00 %	
	submittime	character	51	0.00 %	
	fixco2	numeric	5	0.00 %	
	co2startnew	numeric	54	0.00 %	
	co2_5minnew	numeric	51	3.64 %	
	co2_10minnew	numeric	51	5.45 %	
	co2_15minnew	numeric	49	5.45 %	
	co2_20minnew	numeric	52	7.27 %	

Label	Variable	Class	# unique values	Missing	Description
	co2_25minnew	numeric	52	5.45 %	
	co2endnew	numeric	55	1.82 %	
	co2average	numeric	55	0.00 %	
Wash location	washlocation	character	3	0.00 %	
Sample type (Test/neg control)	sampletype	character	1	0.00 %	
Collection site	collectionsite	character	5	0.00 %	
Room type	roomtype	character	14	0.00 %	
SARS-CoV-2 (Detected/undetected)	result	character	3	0.00 %	
N1-Ct value	n1ctvalue	character	16	0.00 %	
N1-quantity/reaction	n1quantityreaction	numeric	17	70.91 %	
N1-quantity/sampleX10	n1quantitysamplex10	numeric	17	70.91 %	
Batch number	batchnumber	character	12	0.00 %	
Collection date	collectiondate	character	14	0.00 %	
RNA extraction Date	rnadate	numeric	1	100.00 %	
Comments:	comments	character	1	0.00 %	

Variable list

sampleid

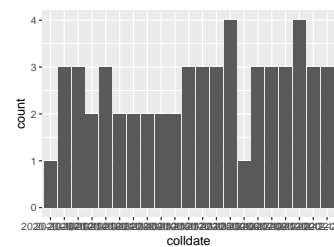
Sample ID

- The variable is a key (distinct values for each observation).

colldate

Date of collection

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	21
Mode	"2020-12-06"

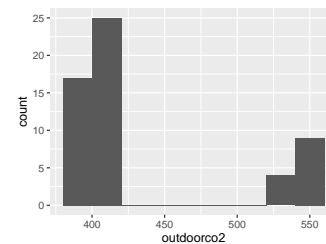


- Observed factor levels: "2020-10-07", "2020-10-12", "2020-10-14", "2020-10-18", "2020-10-21", "2020-10-28", "2020-11-08", "2020-11-10", "2020-11-15", "2020-11-17", "2020-11-23", "2020-11-25", "2020-11-30", "2020-12-06", "2020-12-07", "2020-12-08", "2020-12-13", "2020-12-20", "2020-12-22", "2020-12-27", "2020-12-29".

outdoorco2

Outdoor CO2 level on date of collection (ppm)

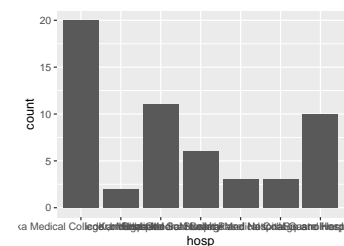
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	15
Median	406
1st and 3rd quartiles	399.5; 410
Min. and max.	388; 556



hosp

Hospital name

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	7
Mode	"Dhaka Medical College and Hospital"

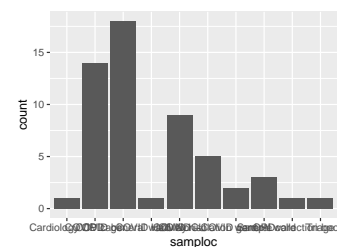


- Observed factor levels: "Dhaka Medical College and Hospital", "icddr,b Hospital", "Kurmitola General Hospital", "Mugda Medical College and Hospital", "Shaheed Suhrawardy Medical College and Hospital", "Sheikh Rasel National Gastroenterology Institute", "Square Hospital".

samploc

Sampling location

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	10
Mode	"COVID general ward"

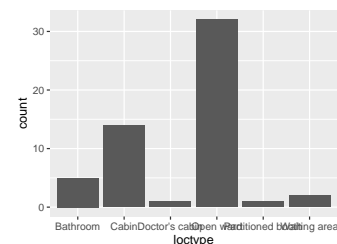


- Observed factor levels: "Cardiology OPD", "COVID cabin", "COVID general ward", "COVID Hallway", "COVID ICU", "COVID isolation ward", "Non-COVID general ward", "OPD", "Sample collection booth", "Triage".

loctype

Type of sampling space

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	6
Mode	"Open ward"

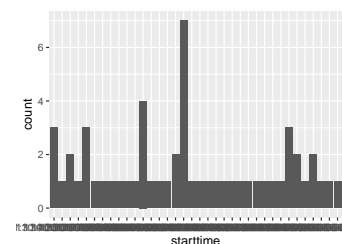


- Observed factor levels: "Bathroom", "Cabin", "Doctor's cabin", "Open ward", "Partitioned booth", "Waiting area".

starttime

Start time

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	36
Mode	"13:00:00.000+06:00"

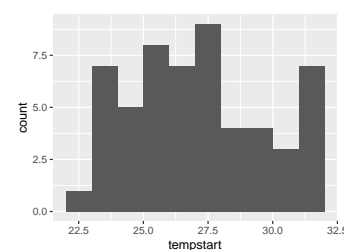


- Observed factor levels: "11:30:00.000+06:00", "11:34:00.000+06:00", "11:40:00.000+06:00", "11:58:00.000+06:00", "12:00:00.000+06:00", "12:16:00.000+06:00", "12:17:00.000+06:00", "12:18:00.000+06:00", "12:21:00.000+06:00", "12:24:00.000+06:00", "12:27:00.000+06:00", "12:30:00.000+06:00", "12:36:00.000+06:00", "12:47:00.000+06:00", "12:51:00.000+06:00", "12:53:00.000+06:00", "13:00:00.000+06:00", "13:04:00.000+06:00", "13:15:00.000+06:00", "13:20:00.000+06:00", "13:22:00.000+06:00", "13:25:00.000+06:00", "13:27:00.000+06:00", "13:28:00.000+06:00", "13:33:00.000+06:00", "13:35:00.000+06:00", "13:41:00.000+06:00", "13:50:00.000+06:00", "13:55:00.000+06:00", "14:00:00.000+06:00", "14:03:00.000+06:00", "14:04:00.000+06:00", "14:17:00.000+06:00", "14:44:00.000+06:00", "15:00:00.000+06:00", "15:10:00.000+06:00".

tempstart

Ambient temperature at start (C)

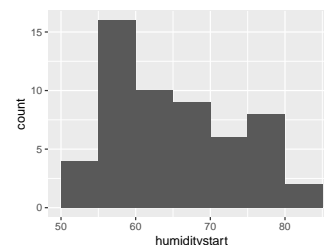
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	42
Median	27
1st and 3rd quartiles	25.15; 29.05
Min. and max.	22.5; 31.8



humiditystart

Ambient humidity at start

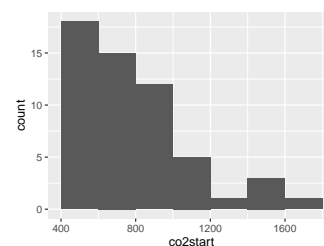
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	53
Median	63.3
1st and 3rd quartiles	58.8; 71.5
Min. and max.	51.5; 83.8



co2start

CO2 level at start of collection (ppm)

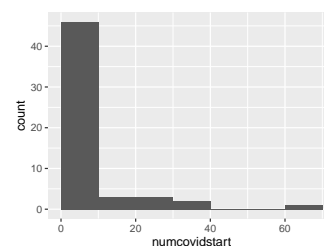
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	53
Median	770
1st and 3rd quartiles	566.5; 928.5
Min. and max.	426; 1731



numcovidstart

Number of COVID patients

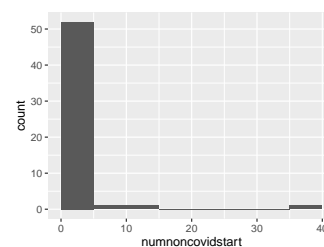
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	18
Median	3
1st and 3rd quartiles	1; 6.5
Min. and max.	0; 62



numnoncovidstart

Number of non-COVID patients

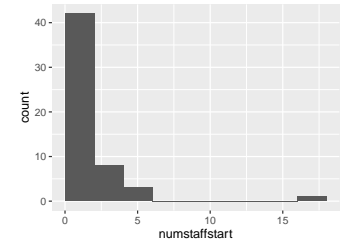
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 40



numstaffstart

Number of staff

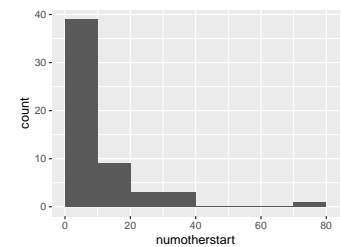
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	8
Median	0
1st and 3rd quartiles	0; 2
Min. and max.	0; 17



numotherstart

Number of people other than patients or staff (visitors, etc.)

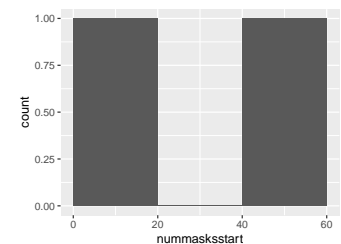
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	20
Median	3
1st and 3rd quartiles	2; 13
Min. and max.	0; 71



nummasksstart

Number of people wearing masks

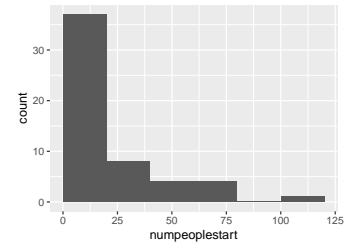
Feature	Result
Variable type	numeric
Number of missing obs.	53 (96.36 %)
Number of unique values	2
Median	29
1st and 3rd quartiles	18.5; 39.5
Min. and max.	8; 50



numpeoplestart

People_start

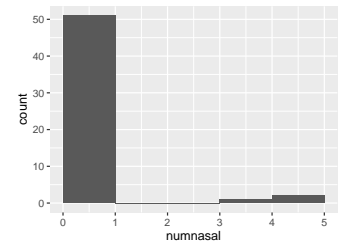
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	30
Median	9.5
1st and 3rd quartiles	4; 25.75
Min. and max.	0; 104



numnasal

Number of patients using nasal cannula

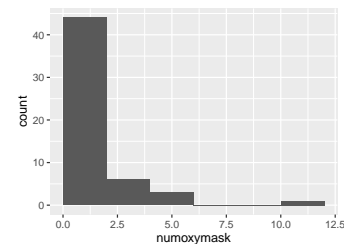
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	4
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 5



numoxymask

Number of patients using oxygen masks

Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	8
Median	0
1st and 3rd quartiles	0; 2
Min. and max.	0; 11



numcpap

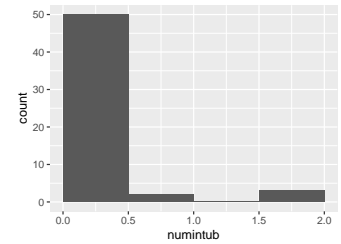
Number of patients using CPAP (non-invasive ventilation)

- The variable only takes one (non-missing) value: "0". The variable contains 0 % missing observations.

numintub

Number of patients intubated

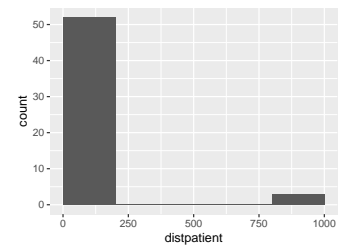
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 2



distpatient

Distance of air sampler from nearest patient (feet, convert inches to decimal)

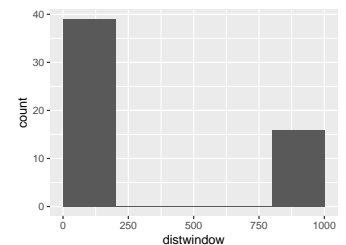
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	41
Median	6
1st and 3rd quartiles	4.34; 7.8
Min. and max.	2; 999



distwindow

Distance of air sampler from nearest window (feet, convert inches to decimal)

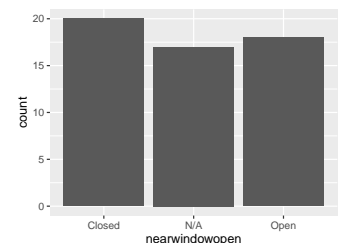
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	40
Median	15.92
1st and 3rd quartiles	11.71; 989.5
Min. and max.	0; 999



nearwindowopen

Is the nearest window open or closed?

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	"Closed"

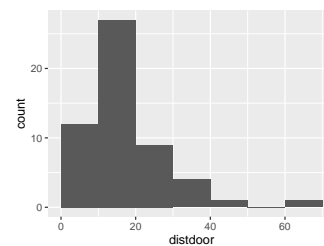


- Observed factor levels: "Closed", "N/A", "Open".

distdoor

Distance of air sampler from nearest door (feet, convert inches to decimal)

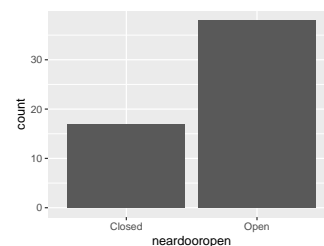
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	51
Median	15.05
1st and 3rd quartiles	11.58; 21.38
Min. and max.	0; 68.5



neardooropen

Is the nearest door open or closed?

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	"Open"

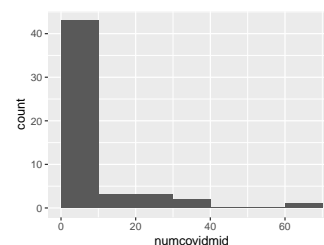


- Observed factor levels: "Closed", "Open".

numcovidmid

Number of COVID patients (15 minutes)

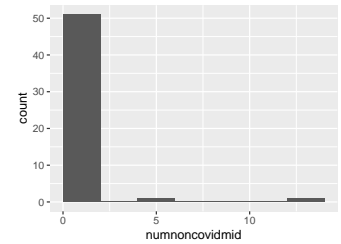
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	19
Median	3
1st and 3rd quartiles	1; 7
Min. and max.	0; 62



numnoncovidmid

Number of non-COVID patients (15 minutes)

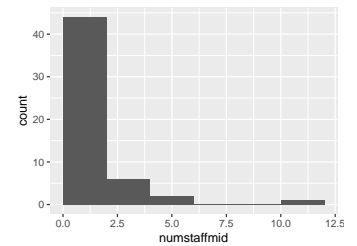
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	4
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 13



numstaffmid

Number of staff (15 minutes)

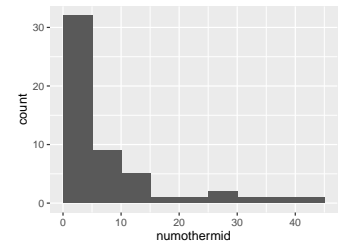
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	7
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 12



numothermid

Number of people other than patients or staff (15 minutes)

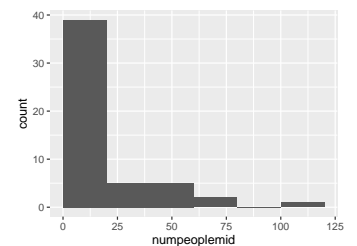
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	20
Median	3
1st and 3rd quartiles	1; 9
Min. and max.	0; 41



numpeoplemid

People_midpoint

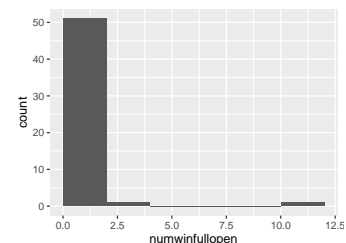
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	25
Median	8
1st and 3rd quartiles	2.75; 19
Min. and max.	0; 104



numwinfullopen

Number of windows fully open

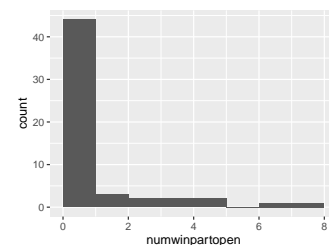
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	5
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 11



numwinpartopen

Number of windows partially open

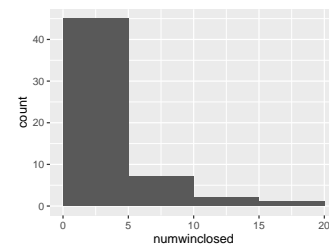
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	8
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 8



numwinclosed

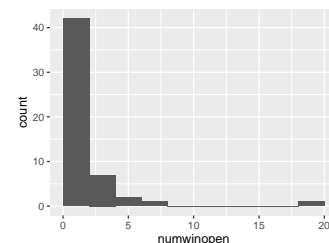
Number of windows closed

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	11
Median	0
1st and 3rd quartiles	0; 3.5
Min. and max.	0; 20



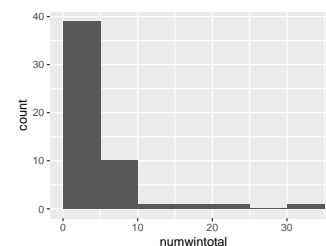
numwinopen

Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	8
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 19



numwintotal

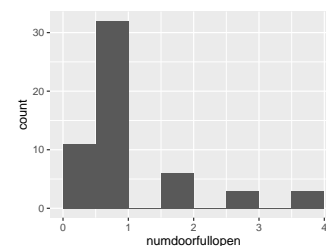
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	14
Median	1
1st and 3rd quartiles	0; 6
Min. and max.	0; 34



numdoorfullopen

Number of doors fully open (doors leading to external corridor or separate room,

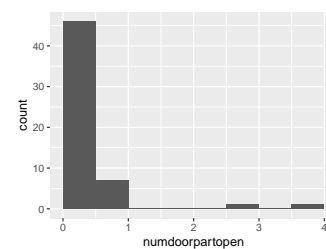
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	1
1st and 3rd quartiles	1; 1
Min. and max.	0; 4



numdoorpartopen

Number of doors partially open (doors leading to external corridor or separate r

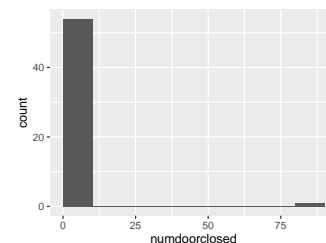
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 4



numdoorclosed

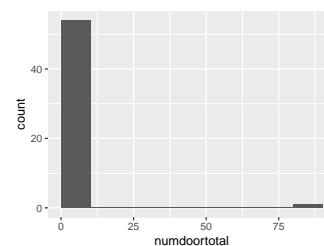
Number of doors closed (doors leading to external corridor or separate room, not

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	7
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 82



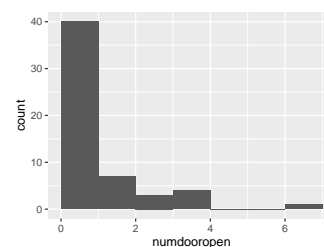
numdoortotal

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10
Median	1
1st and 3rd quartiles	1; 2
Min. and max.	0; 85



numdooropen

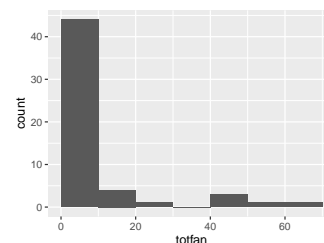
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	6
Median	1
1st and 3rd quartiles	1; 2
Min. and max.	0; 7



totfan

Total number of fans

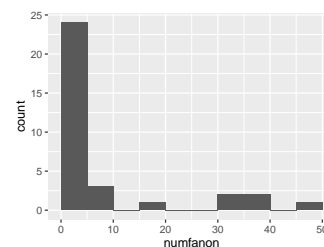
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	18
Median	2
1st and 3rd quartiles	0; 6.75
Min. and max.	0; 61



numfanon

Number of fans in operation

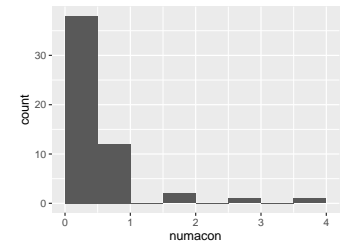
Feature	Result
Variable type	numeric
Number of missing obs.	22 (40 %)
Number of unique values	14
Median	2
1st and 3rd quartiles	0; 6
Min. and max.	0; 49



numacon

Number of air conditioning units in operation

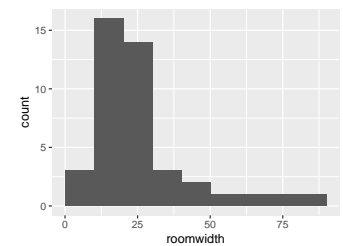
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	5
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 4



roomwidth

Room width (feet, convert inches to decimal)

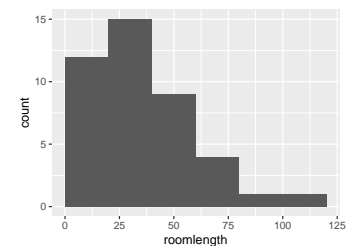
Feature	Result
Variable type	numeric
Number of missing obs.	13 (23.64 %)
Number of unique values	38
Median	20.24
1st and 3rd quartiles	14; 23.12
Min. and max.	4.33; 88.92



roomlength

Room length (feet, convert inches to decimal)

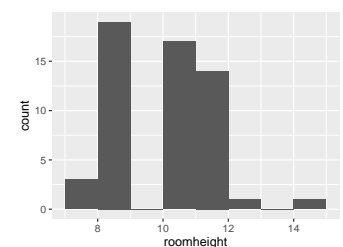
Feature	Result
Variable type	numeric
Number of missing obs.	13 (23.64 %)
Number of unique values	39
Median	25.45
1st and 3rd quartiles	18.98; 43.13
Min. and max.	6.5; 109



roomheight

Room height (feet, convert inches to decimal)

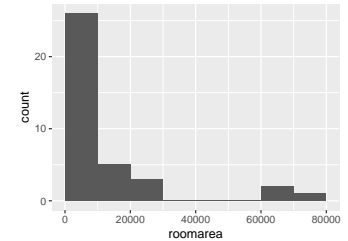
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	29
Median	10.33
1st and 3rd quartiles	8.53; 11.25
Min. and max.	7.53; 14.25



roomarea

Room area (ft cub)

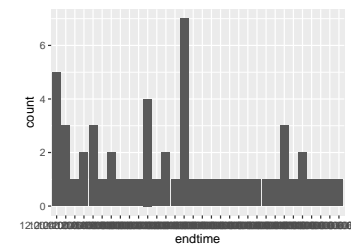
Feature	Result
Variable type	numeric
Number of missing obs.	18 (32.73 %)
Number of unique values	37
Median	4663.04
1st and 3rd quartiles	2901.23; 11748.59
Min. and max.	288.49; 73852.51



endtime

End time

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	32
Mode	"13:30:00.000+06:00"

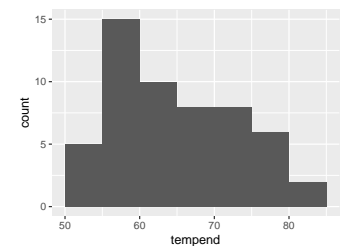


- Observed factor levels: "", "12:00:00.000+06:00", "12:04:00.000+06:00", "12:10:00.000+06:00", "12:30:00.000+06:00", "12:46:00.000+06:00", "12:47:00.000+06:00", "12:51:00.000+06:00", "12:54:00.000+06:00", "12:57:00.000+06:00", "13:00:00.000+06:00", "13:06:00.000+06:00", "13:22:00.000+06:00", "13:23:00.000+06:00", "13:30:00.000+06:00", "13:34:00.000+06:00", "13:45:00.000+06:00", "13:50:00.000+06:00", "13:56:00.000+06:00", "13:58:00.000+06:00", "14:03:00.000+06:00", "14:05:00.000+06:00", "14:11:00.000+06:00", "14:20:00.000+06:00", "14:25:00.000+06:00", "14:30:00.000+06:00", "14:33:00.000+06:00", "14:34:00.000+06:00", "14:47:00.000+06:00", "15:14:00.000+06:00", "15:30:00.000+06:00", "15:46:00.000+06:00".

tempend

Ambient temperature at end (C)

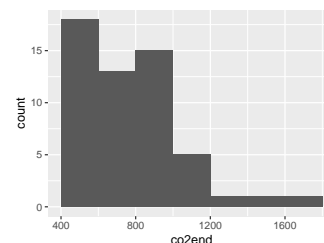
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	47
Median	63.25
1st and 3rd quartiles	57.35; 70.75
Min. and max.	50.1; 81.6



co2end

CO2 level at end of collection (ppm)

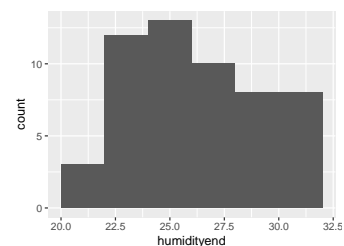
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	53
Median	746.5
1st and 3rd quartiles	555; 885
Min. and max.	404; 1604



humidityend

Ambient humidity at end

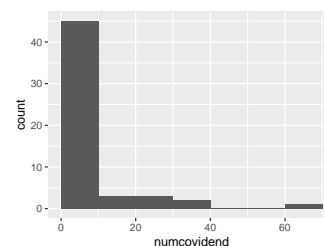
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	40
Median	25.9
1st and 3rd quartiles	24; 29.37
Min. and max.	21.4; 32



numcovidend

Number of COVID patients (endpoint)

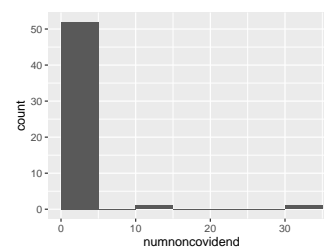
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	19
Median	3
1st and 3rd quartiles	1; 6.75
Min. and max.	0; 62



numnoncovidend

Number of non-COVID patients (endpoint)

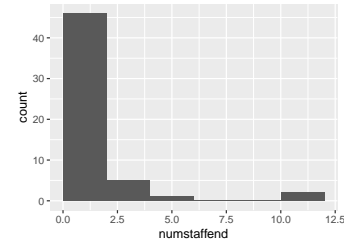
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	6
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 31



numstaffend

Number of staff (endpoint)

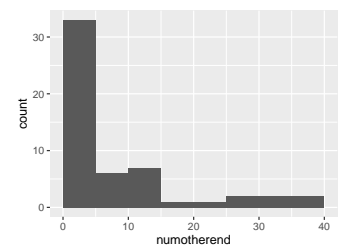
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	7
Median	0
1st and 3rd quartiles	0; 1.75
Min. and max.	0; 11



numotherend

Number of people other than patients or staff (endpoint)

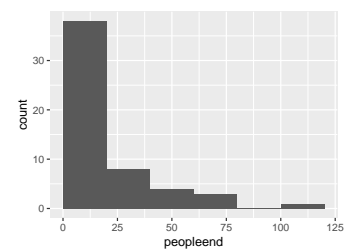
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	21
Median	3
1st and 3rd quartiles	0; 11.75
Min. and max.	0; 40



peopleend

People_end

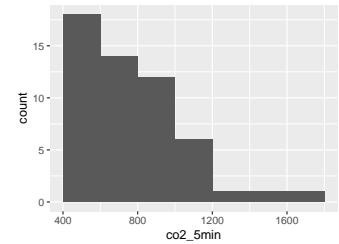
Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	30
Median	7.5
1st and 3rd quartiles	2.25; 22
Min. and max.	0; 103



co2_5min

CO2 level at 5 minutes (ppm)

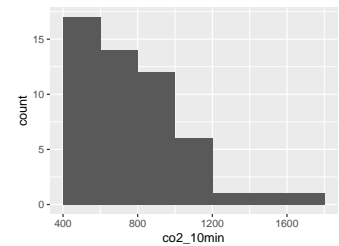
Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	52
Median	710
1st and 3rd quartiles	570; 909
Min. and max.	403; 1654



co2_10min

CO2 level at 10 minutes (ppm)

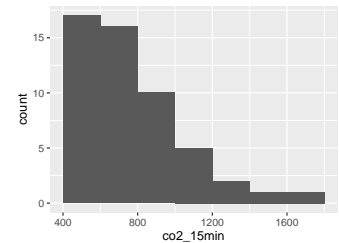
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	50
Median	711
1st and 3rd quartiles	558.25; 918.25
Min. and max.	408; 1619



co2_15min

CO2 level at 15 minutes (ppm)

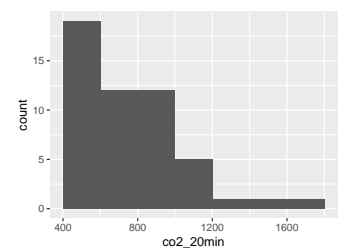
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	49
Median	716
1st and 3rd quartiles	564; 901.5
Min. and max.	406; 1607



co2_20min

CO2 level at 20 minutes (ppm)

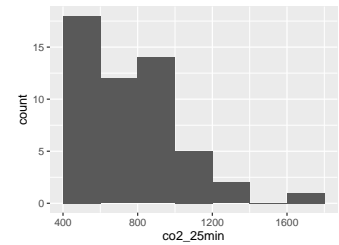
Feature	Result
Variable type	numeric
Number of missing obs.	4 (7.27 %)
Number of unique values	51
Median	722
1st and 3rd quartiles	547.5; 918.5
Min. and max.	405; 1611



co2_25min

CO2 level at 25 minutes (ppm)

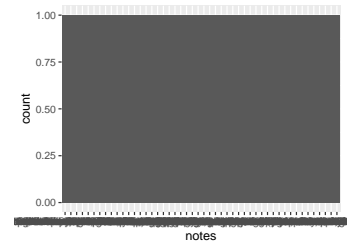
Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	51
Median	746
1st and 3rd quartiles	561.25; 911
Min. and max.	409; 1607



notes

Notes:

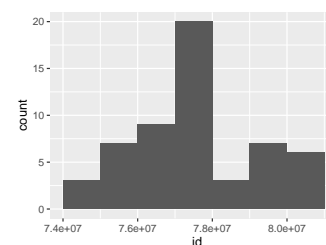
Feature	Result
Variable type	character
Number of missing obs.	7 (12.73 %)
Number of unique values	48
Mode	"12th floors, Room 1202"



- Observed factor levels: "12th floors, Room 1202", "13th floor, room 1301", "2 patients fed with intranasal canal.", "Bathroom of previous room. CO2 meter malfunctioned", "Cabin 15 (8th floor, new)", "Cabin 18 (new location), room has 8' 10" x 9' 1" washroom", "Cabin 29 (8th floor), 9' 2" x 3' 6" washroom included", "Cabin 46, suspected COVIDZ but not confirmed, 9' 2" x 3' 2" washroom included.", "Children's OPD, highly dynamic flux of people, doctor's rooms partially sectioned off (top parts open)", "CO2 higher than usual value at same point. Room 323.", "Continuous flux of people", "COVID Med OPS, 2nd building", "Flux of people", "Isolation ward 601 unit V", "Isolation ward 601 unit VI", "Isolation ward 601, unit II Room 02", "Isolation ward 607", "Left side of 5th floor, other side recorded, room showed large variation in CO2", "Male ward @ 8th floor, another unit. Should we count number of ppl with oxygen masks who remove them", "Male ward @ 8th floor, unit 2", "Medicine OPD, Can't distinguish patients from visitors, constant flux", "Midpoint and door data not collected", "Midpoint and door data not taken", "Non rectangular room. All nasal cannula are high flow. Central AC.", "Partitioned room", "People left in the middle for lunch, recently turned on fan hence CO2 decrease, large continuous ventilation shafts 39.75 x 2.67 feet. Rectangular room, 6th floor 'non acute child ward'", "Rectangular room", "Rectangular room with 6' x 5' 5" washroom", "Rectangular room with 7' 2" x 6' 6" washroom", "Rectangular room with a 8' 10" x 6' washroom", "Rectangular room, 'non acute female ward'", "Respiratory med OPD, line of patients outside at the door but not entering.", "Right side of 5th floor, room with large variation in CO2, other side recorded too", "Room 1110", "Room 1205", "Room 1208", "Room 1307. Rectangular room with a 9.75 x 6.5 feet washroom", "Room 1309. Rectangular with a 9.75 x 6.5 feet washroom.", "Room 513, internal washroom of 6.75 by 6 squared feet.", "Room 518", "Room 519", "Room was a post op, turned into COVID ICU. 6th floor.", "Small partitioned booth for Cardiology OPD. Ground floor open area, flux of people. Considered top of partitions as windows.", "Small room, closed door opened intermittently, some CO2 measurements couldn't be taken", "Sudden gust of wind in the middle of the experiment as it started raining", "Top left portion was blank, not homogeneous distribution of people", "Washroom of previous COVID ICU sampled (51_MM_R2), constant flux of people", "Washroom of previous room, opens up to 4 small stalls, biosampler on doorstep, constant flux of people".

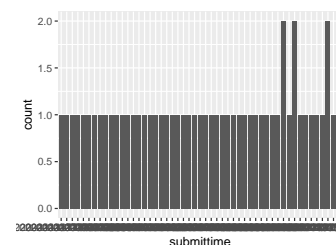
_id

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	55
Median	77675222
1st and 3rd quartiles	76978218.5; 78831553.5
Min. and max.	74480967; 80463536



submittime

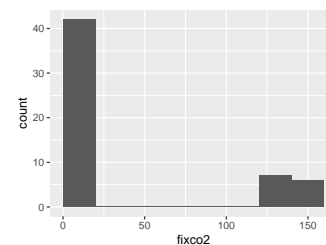
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	51
Mode	"2020-12-16T16:01:10"



- Observed factor levels: "2020-11-16T13:05:39", "2020-11-17T15:17:33", "2020-11-17T15:17:45", "2020-11-20T16:35:11", "2020-11-20T16:35:16", "2020-11-20T18:06:40", "2020-11-20T18:06:41", "2020-11-23T11:17:19", "2020-11-23T11:17:29", "2020-11-23T11:17:37", "2020-11-25T19:04:31", "2020-11-25T20:14:44", "2020-11-25T20:14:45", "2020-12-01T16:32:05", "2020-12-01T16:32:07", "2020-12-01T16:32:08", "2020-12-01T16:32:09", "2020-12-01T16:32:11", "2020-12-01T16:32:13", "2020-12-02T21:28:07", "2020-12-03T16:21:00", "2020-12-03T16:21:05", "2020-12-03T16:21:06", "2020-12-07T18:03:31", "2020-12-07T18:03:33", "2020-12-07T18:03:34", "2020-12-07T18:03:35", "2020-12-07T18:03:44", "2020-12-07T18:03:45", "2020-12-07T18:03:46", "2020-12-07T18:03:47", "2020-12-09T13:51:32", "2020-12-09T13:51:33", "2020-12-09T13:51:35", "2020-12-09T13:51:38", "2020-12-09T13:51:40", "2020-12-09T13:51:41", "2020-12-09T13:51:44", "2020-12-09T13:51:46", "2020-12-16T16:01:07", "2020-12-16T16:01:10", "2020-12-23T21:13:23", "2020-12-23T21:13:24", "2020-12-23T21:13:27", "2020-12-23T21:13:28", "2020-12-23T21:13:30", "2020-12-23T21:13:32", "2020-12-30T18:56:22", "2020-12-30T18:56:23", "2020-12-30T18:56:24", "2020-12-30T18:56:25".

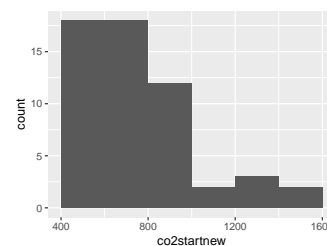
fixco2

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 146



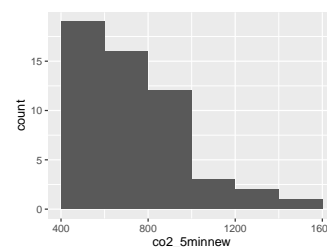
co2startnew

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	54
Median	732
1st and 3rd quartiles	562.5; 911.5
Min. and max.	421; 1586



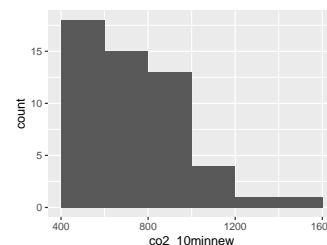
co2_5minnew

Feature	Result
Variable type	numeric
Number of missing obs.	2 (3.64 %)
Number of unique values	50
Median	696
1st and 3rd quartiles	565; 886
Min. and max.	403; 1509



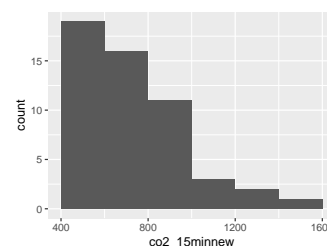
co2_10minnew

Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	50
Median	696.5
1st and 3rd quartiles	549; 868.75
Min. and max.	408; 1474



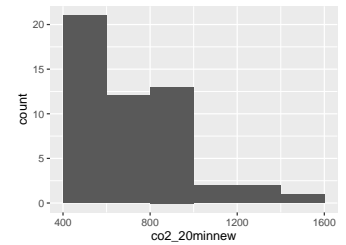
co2_15minnew

Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	48
Median	664.5
1st and 3rd quartiles	551.75; 869.25
Min. and max.	406; 1462



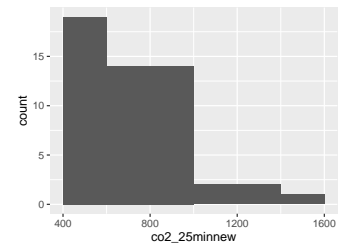
co2_20minnew

Feature	Result
Variable type	numeric
Number of missing obs.	4 (7.27 %)
Number of unique values	51
Median	653
1st and 3rd quartiles	523; 867.5
Min. and max.	405; 1466



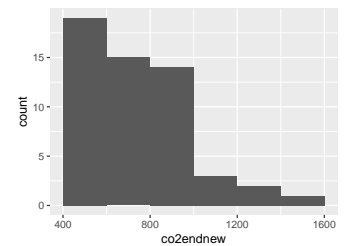
co2_25minnew

Feature	Result
Variable type	numeric
Number of missing obs.	3 (5.45 %)
Number of unique values	51
Median	718
1st and 3rd quartiles	533.5; 866
Min. and max.	409; 1462



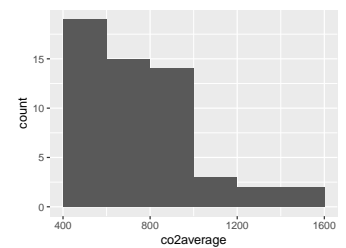
co2endnew

Feature	Result
Variable type	numeric
Number of missing obs.	1 (1.82 %)
Number of unique values	54
Median	695
1st and 3rd quartiles	539.5; 855.75
Min. and max.	404; 1459



co2average

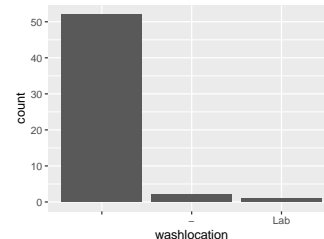
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	55
Median	715.71
1st and 3rd quartiles	545.71; 868.93
Min. and max.	409.57; 1488.29



washlocation

Wash location

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	" "



- Observed factor levels: " ", "-", "Lab".

sampletype

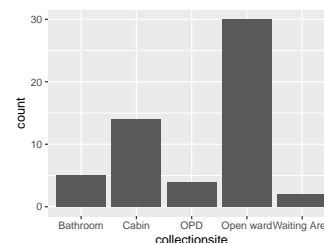
Sample type (Test/neg control)

- The variable only takes one (non-missing) value: "TEST". The variable contains 0 % missing observations.

collectionsite

Collection site

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	5
Mode	"Open ward"

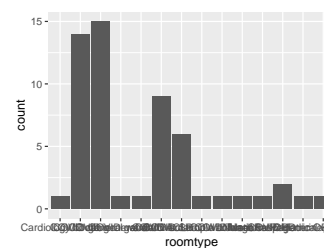


- Observed factor levels: "Bathroom", "Cabin", "OPD", "Open ward", "Waiting Area".

roomtype

Room type

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	14
Mode	"COVID general ward"

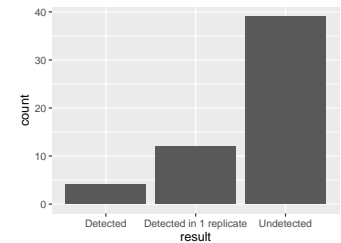


- Observed factor levels: "Cardiology booth", "COVID cabin", "COVID general ward", "COVID general ward A", "COVID general ward B", "COVID ICU", "COVID isolation ward", "COVID Sample collection", "COVID Triage", "COVID ward hallway", "Medicine OPD", "Non-COVID general ward", "Pediatric OPD", "Resp Medicine, doctor's cabin".

result

SARS-CoV-2 (Detected/undetected)

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	"Undetected"

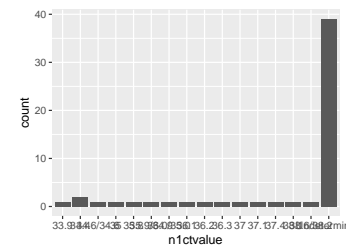


- Observed factor levels: "Detected", "Detected in 1 replicate", "Undetected".

n1ctvalue

N1-Ct value

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	16
Mode	"Undetermined"

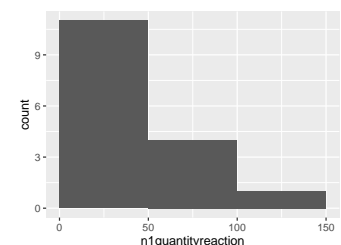


- Observed factor levels: "33.9", "34.4", "34.6/34.6", "35", "35.8", "35.9/34.9", "36.0/35.0", "36.1", "36.2", "36.3", "37", "37.1", "37.4", "38.1", "38.6/38.2", "Undetermined".

n1quantityreaction

N1-quantity/reaction

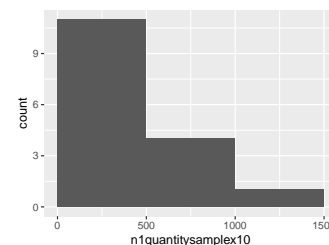
Feature	Result
Variable type	numeric
Number of missing obs.	39 (70.91 %)
Number of unique values	16
Median	29.7
1st and 3rd quartiles	2.6; 51.1
Min. and max.	1; 147.6



n1quantitysamplex10

N1-quantity/sampleX10

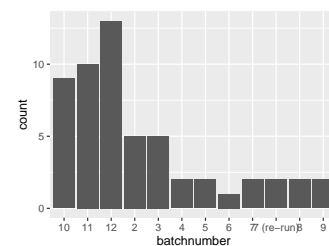
Feature	Result
Variable type	numeric
Number of missing obs.	39 (70.91 %)
Number of unique values	16
Median	296.75
1st and 3rd quartiles	25.98; 511
Min. and max.	9.54; 1476



batchnumber

Batch number

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	12
Mode	"12"

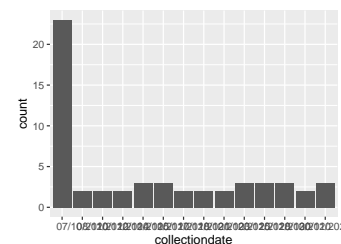


- Observed factor levels: "10", "11", "12", "2", "3", "4", "5", "6", "7", "7 (re-run)", "8", "9".

collectiondate

Collection date

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	14
Mode	" "



- Observed factor levels: " ", "07/10/2020", "08/11/2020", "10/11/2020", "12/10/2020", "14/10/2020", "15/11/2020", "17/11/2020", "18/10/2020", "21/10/2020", "23/11/2020", "25/11/2020", "28/10/2020", "30/11/2020".

rnadate

RNA extraction Date

- The variable only takes one value: "NA".

comments

Comments:

- The variable only takes one (non-missing) value: "". The variable contains 0 % missing observations.

Report generation information:

- Created by: Caitlin Hemlock (username: caitlinhemlock).
- Report creation time: Wed Jan 06 2021 09:42:41
- Report was run from directory: /Users/caitlinhemlock
- dataMaid v1.4.0 [Pkg: 2019-12-10 from CRAN (R 4.0.2)]
- R version 4.0.2 (2020-06-22).
- Platform: x86_64-apple-darwin17.0 (64-bit)(macOS Catalina 10.15.6).
- Function call: `dataMaid::makeDataReport(data = test, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "~/Dropbox/COVID aerosols/codebook/COVID_aerosols_codebook.Rmd", replace = T, checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, codebook = TRUE, reportTitle = "COVID Aerosols - Merged Data Codebook")`