

COVID-19 mortality according to civilian records

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This supplementary material provides additional information to the findings reported in the body of the manuscript.

1 Mortality per state

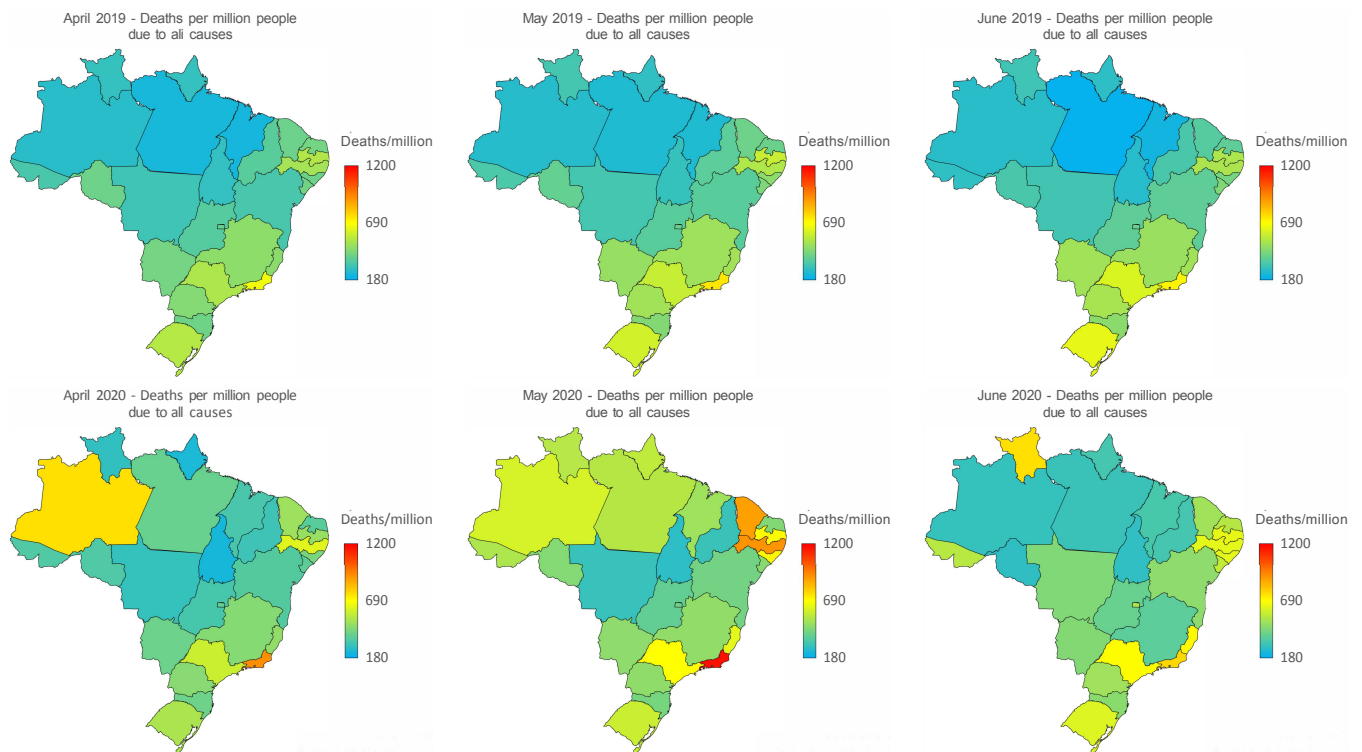


Figure 1. Monthly total number of deaths (per million people) in the Brazilian states in April, May and June of 2019 (top row) and 2020 (bottom row). Data gathered on July 30th, 2020 from¹.

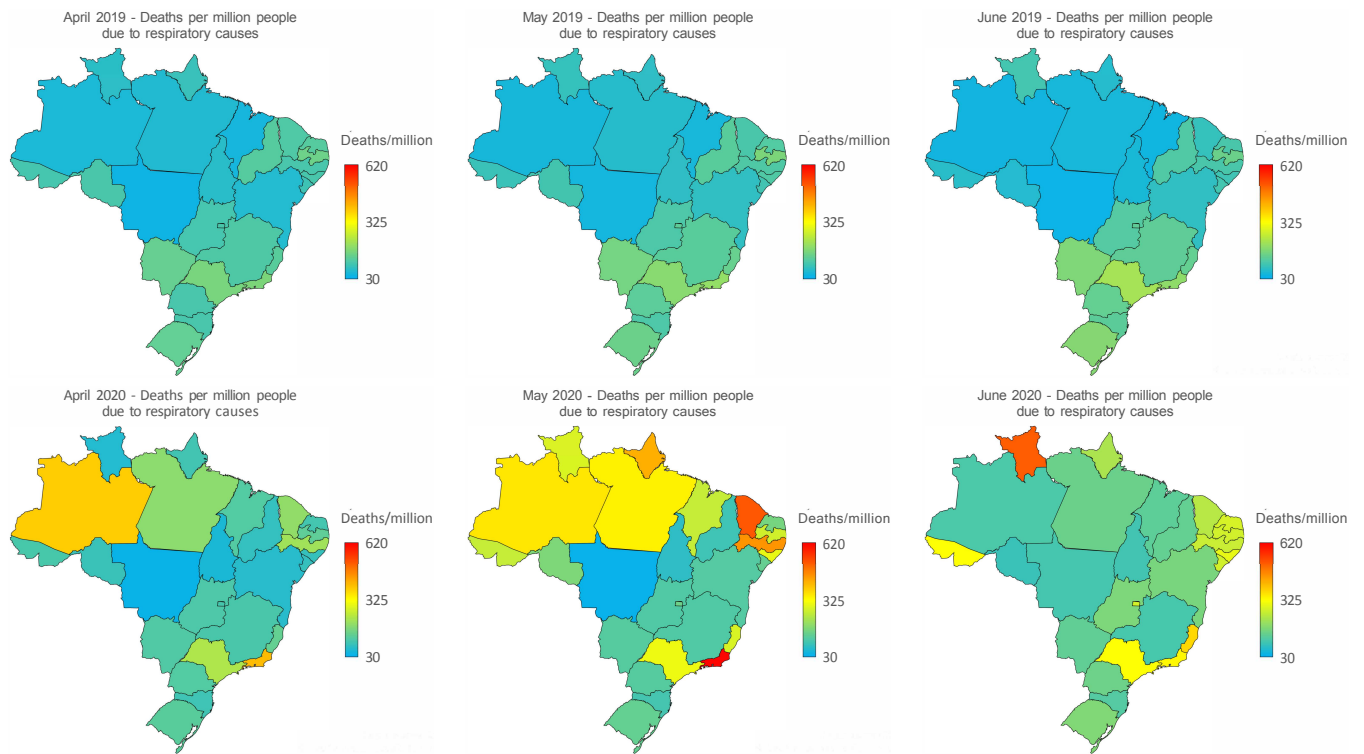


Figure 2. Monthly number of deaths (per million people) due to respiratory causes in the Brazilian states in April, May and June of 2019 (top row) and 2020 (bottom row). Data gathered on July 30th, 2020 from¹.

2 Tables with mortality information

Brazil				
	Month	2019	2020	Change [%]
Total	April	94024	105960	12.69
	May	102024	130380	27.79
	June	102069	113306	11.01
Respiratory	April	26440	37385	41.40
	May	29113	55764	91.54
	June	30447	47285	

Central-western region					
State	Type	Month	2019	2020	Change [%]
DF	Total	April	1168	1140	-2.40
		May	1176	1226	4.25
		June	1192	1585	32.97
	Respiratory	April	345	333	-3.48
		May	418	475	13.64
		June	419	831	98.33
GO	Total	April	2469	2280	-7.65
		May	2527	2639	4.43
		June	2597	2724	4.89
	Respiratory	April	783	833	6.39
		May	833	871	4.56
		June	889	1223	37.57
MS	Total	April	1149	1101	-4.18
		May	1336	1285	-3.82
		June	1402	1224	-12.70
	Respiratory	April	410	346	-15.61
		May	458	356	-22.27
		June	492	394	-19.92
MT	Total	April	1067	998	-6.47
		May	1103	1022	-7.34
		June	1089	1528	40.31
	Respiratory	April	162	139	-14.20
		May	183	131	-28.42
		June	151	386	155.63

Northern region					
State	Type	Month	2019	2020	Change [%]
AC	Total	April	290	301	3.79
		May	293	462	57.68
		June	242	484	100.00
	Respiratory	April	98	101	3.06
		May	86	227	163.95
		June	69	284	311.59
AM	Total	April	1090	3128	186.97
		May	1073	2512	134.11
		June	1093	1190	8.87
	Respiratory	April	257	1592	519.46
		May	235	1469	525.11
		June	211	489	131.75
AP	Total	April	242	200	-17.36
		May	235	475	102.13
		June	230	271	17.83
	Respiratory	April	82	90	9.76
		May	71	352	395.77
		June	62	193	211.29
PA	Total	April	1977	3316	67.73
		May	2098	4678	122.97
		June	1627	2550	56.73
	Respiratory	April	592	1637	176.52
		May	648	2933	352.62
		June	504	1318	161.51
RO	Total	April	707	601	-14.99
		May	675	787	16.59
		June	581	488	-16.01
	Respiratory	April	203	173	-14.78
		May	190	313	64.74
		June	128	174	35.94
RR	Total	April	173	171	-1.16
		May	190	328	72.63
		June	186	457	145.70
	Respiratory	April	49	43	-12.24
		May	56	171	205.36
		June	65	311	378.46
TO	Total	April	443	353	-20.32
		May	454	424	-6.61
		June	405	437	7.90
	Respiratory	April	122	97	-20.49
		May	132	132	0.00
		June	93	167	79.57

Table 1. The number of total and respiratory deaths in April, May, and June in Brazil as a whole and for the states from the Central-western and Northern regions for 2019 and 2020. The last column in each sub-table shows the percentage increases in total and respiratory cause deaths in a month in 2020 w.r.t the same month in 2019. Data gathered on July 30th, 2020 from¹.

Northeastern region

State	Type	Month	2019	2020	Change [%]
AL	Total	April	1330	1408	5.86
		May	1532	2356	53.79
		June	1382	2123	53.62
	Respiratory	April	379	313	-17.41
		May	413	1005	143.34
		June	347	997	187.32
BA	Total	April	4812	5184	7.73
		May	5355	6132	14.51
		June	5468	6893	26.06
	Respiratory	April	1045	1135	8.61
		May	1296	1895	46.22
		June	1293	2538	96.29
CE	Total	April	3614	4498	24.46
		May	3654	8028	119.70
		June	3202	4565	42.57
	Respiratory	April	1110	1808	62.88
		May	1064	4728	344.36
		June	846	2193	159.22
MA	Total	April	1586	2300	45.02
		May	1718	3515	104.60
		June	1531	2306	50.62
	Respiratory	April	395	895	126.58
		May	407	1823	347.91
		June	350	977	179.14
PB	Total	April	2160	1944	-10.00
		May	2332	2797	19.94
		June	2109	2588	22.71
	Respiratory	April	628	563	-10.35
		May	698	1085	55.44
		June	617	1090	76.66
PE	Total	April	4850	5993	23.57
		May	5101	8648	69.54
		June	4993	6088	21.93
	Respiratory	April	1083	2056	89.84
		May	1158	4287	270.21
		June	1099	2498	127.30
PI	Total	April	1179	993	-15.78
		May	1194	978	-18.09
		June	1082	1038	-4.07
	Respiratory	April	423	294	-30.50
		May	436	341	-21.79
		June	403	476	18.11
RN	Total	April	1435	1254	-12.61
		May	1379	1548	12.26
		June	1295	1905	47.10
	Respiratory	April	456	379	-16.89
		May	441	585	32.65
		June	407	974	139.31
SE	Total	April	936	846	-9.62
		May	993	1039	4.63
		June	1011	1307	29.28
	Respiratory	April	235	209	-11.06
		May	244	339	38.93
		June	251	625	149.00

Southeastern region

State	Type	Month	2019	2020	Change [%]
ES	Total	April	1840	1893	2.88
		May	2032	2564	26.18
		June	2026	2824	39.39
	Respiratory	April	534	592	10.86
		May	598	1129	88.80
		June	584	1490	155.14
MG	Total	April	9793	9436	-3.65
		May	10531	9950	-5.52
		June	10342	7690	-25.64
	Respiratory	April	2537	2442	-3.74
		May	2840	2604	-8.31
		June	2946	2369	-19.59
RJ	Total	April	11443	15808	38.15
		May	12727	20148	58.31
		June	12260	13250	8.08
	Respiratory	April	2994	6955	132.30
		May	3460	10634	207.34
		June	3377	5754	70.39
SP	Total	April	24159	26856	11.16
		May	26583	31870	19.89
		June	28280	31806	12.47
	Respiratory	April	7767	10648	37.09
		May	8587	13942	62.36
		June	10094	14782	46.44

Southern region

State	Type	Month	2019	2020	Change [%]
PR	Total	April	5054	5140	1.70
		May	5759	5335	-7.36
		June	5886	5689	-3.35
	Respiratory	April	1302	1442	10.75
		May	1558	1483	-4.81
		June	1668	1794	7.55
RS	Total	April	6177	5947	-3.72
		May	6815	6631	-2.70
		June	7277	7049	-3.13
	Respiratory	April	1640	1523	-7.13
		May	1747	1668	-4.52
		June	2101	2047	-2.57
SC	Total	April	2881	2871	-0.35
		May	3159	3003	-4.94
		June	3281	3247	-1.04
	Respiratory	April	809	747	-7.66
		May	856	786	-8.18
		June	981	911	-7.14

Table 1. [cont.] The number of total and respiratory deaths in April, May, and June in Brazil as a whole and for the states from the Northeastern, Southeastern and Southern regions for 2019 and 2020. The last column in each sub-table shows the percentage increases in total and respiratory cause deaths in a month in 2020 w.r.t the same month in 2019. Data gathered on July 30th, 2020 from¹.

Whole country							
Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
April	2019	94024	26440	0	8153	18166	121
	2020	105960	37385	9959	9103	15686	2637
May	2019	102024	29113	0	8741	20206	166
	2020	130380	55764	27567	9305	14416	4476
June	2019	102069	30447	0	8641	21649	157
	2020	113306	47285	25192	7639	12534	1920

Northern region								
State	Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
AC	April	2019	290	98	0	19	79	0
		2020	301	101	22	18	59	2
	May	2019	293	86	0	20	66	0
		2020	462	227	120	31	71	5
	June	2019	242	69	0	16	53	0
		2020	484	284	210	23	49	2
AM	April	2019	1090	257	0	57	197	3
		2020	3128	1592	492	200	571	329
	May	2019	1073	235	0	57	173	5
		2020	2512	1469	828	108	292	241
	June	2019	1093	211	0	54	156	1
		2020	1190	489	288	55	115	31
AP	April	2019	242	82	0	20	61	1
		2020	200	90	34	24	31	1
	May	2019	235	71	0	25	45	1
		2020	475	352	265	42	37	8
	June	2019	230	62	0	16	46	0
		2020	271	193	156	11	25	1
PA	April	2019	1977	592	0	207	381	4
		2020	3316	1637	555	327	567	188
	May	2019	2098	648	0	237	408	3
		2020	4678	2933	1803	298	379	453
	June	2019	1627	504	0	195	307	2
		2020	2550	1318	851	182	224	61
RO	April	2019	707	203	0	81	122	0
		2020	601	173	24	47	98	4
	May	2019	675	190	0	75	115	0
		2020	787	313	173	60	73	7
	June	2019	581	128	0	43	85	0
		2020	488	174	88	38	47	1
RR	April	2019	173	49	0	14	35	0
		2020	171	43	3	13	25	2
	May	2019	190	56	0	20	35	1
		2020	328	171	104	20	42	5
	June	2019	186	65	0	6	59	0
		2020	457	311	263	10	32	6
TO	April	2019	443	122	0	45	77	0
		2020	353	97	2	32	62	1
	May	2019	454	132	0	44	87	1
		2020	424	132	52	27	49	4
	June	2019	405	93	0	33	60	0
		2020	437	167	69	42	55	1

Table 2. This table desegregate the number of deaths (see Table 1) for each month and year among the different respiratory causes in Brazil and in the states of the Northern region. Data gathered on July 30th, 2020 from¹.

Northeastern region

State	Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
AL	April	2019	1330	379	0	150	228	1
		2020	1408	313	47	90	151	25
	May	2019	1532	413	0	148	262	3
		2020	2356	1005	552	150	206	97
	June	2019	1382	347	0	132	212	3
		2020	2123	997	663	130	150	54
BA	April	2019	4812	1045	0	523	511	11
		2020	5184	1135	116	493	498	28
	May	2019	5355	1296	0	648	637	11
		2020	6132	1895	805	541	498	51
	June	2019	5468	1293	0	602	676	15
		2020	6893	2538	1478	517	483	60
CE	April	2019	3614	1110	0	285	824	1
		2020	4498	1808	836	278	588	106
	May	2019	3654	1064	0	291	768	5
		2020	8028	4728	3722	285	485	236
	June	2019	3202	846	0	269	572	5
		2020	4565	2193	1607	184	331	71
MA	April	2019	1586	395	0	164	231	0
		2020	2300	895	233	250	265	147
	May	2019	1718	407	0	167	240	0
		2020	3515	1823	793	348	285	397
	June	2019	1531	350	0	140	209	1
		2020	2306	977	544	194	153	86
PB	April	2019	2160	628	0	211	417	0
		2020	1944	563	61	188	282	32
	May	2019	2332	698	0	228	467	3
		2020	2797	1085	496	194	305	90
	June	2019	2109	617	0	197	417	3
		2020	2588	1090	631	189	229	41
PE	April	2019	4850	1083	0	408	671	4
		2020	5993	2056	406	365	505	780
	May	2019	5101	1158	0	380	773	5
		2020	8648	4287	1878	408	431	1570
	June	2019	4993	1099	0	386	703	10
		2020	6088	2498	1272	302	316	608
PI	April	2019	1179	423	0	179	241	3
		2020	993	294	18	114	157	5
	May	2019	1194	436	0	173	261	2
		2020	978	341	99	111	120	11
	June	2019	1082	403	0	142	259	2
		2020	1038	476	250	109	107	10
RN	April	2019	1435	456	0	112	339	5
		2020	1254	379	35	108	218	18
	May	2019	1379	441	0	89	347	5
		2020	1548	585	231	126	184	44
	June	2019	1295	407	0	81	324	2
		2020	1905	974	659	93	166	56
SE	April	2019	936	235	0	85	146	4
		2020	846	209	10	57	136	6
	May	2019	993	244	0	70	174	0
		2020	1039	339	136	73	114	16
	June	2019	1011	251	0	91	160	0
		2020	1307	625	452	80	71	22

Table 2. [cont.] This table desegregate the number of deaths (see Table 1) for each month and year among the different respiratory causes in Brazil and in the states of the Northeastern region. Data gathered on July 30th, 2020 from¹.

Central-western region

State	Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
DF	April	2019	1168	345	0	82	261	2
		2020	1140	333	50	67	215	1
	May	2019	1176	418	0	111	301	6
		2020	1226	475	185	81	202	7
	June	2019	1192	419	0	100	318	1
		2020	1585	831	512	94	216	9
GO	April	2019	2469	783	0	239	541	3
		2020	2280	833	86	305	430	12
	May	2019	2527	833	0	257	573	3
		2020	2639	871	176	246	432	17
	June	2019	2597	889	0	268	615	6
		2020	2724	1223	536	222	439	26
MS	April	2019	1149	410	0	112	294	4
		2020	1101	346	11	108	221	6
	May	2019	1336	458	0	130	323	5
		2020	1285	356	19	105	225	7
	June	2019	1402	492	0	116	371	5
		2020	1224	394	66	105	217	6
MT	April	2019	1067	162	0	61	100	1
		2020	998	139	11	46	80	2
	May	2019	1103	183	0	73	110	0
		2020	1022	131	18	41	69	3
	June	2019	1089	151	0	62	84	5
		2020	1528	386	248	56	76	6

Southeastern region

State	Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
ES	April	2019	1840	534	0	126	405	3
		2020	1893	592	113	115	313	51
	May	2019	2032	598	0	107	487	4
		2020	2564	1129	587	129	350	63
	June	2019	2026	584	0	107	476	1
		2020	2824	1490	1010	116	298	66
MG	April	2019	9793	2537	0	879	1644	14
		2020	9436	2442	249	715	1384	94
	May	2019	10531	2840	0	902	1915	23
		2020	9950	2604	445	784	1294	81
	June	2019	10342	2946	0	972	1950	24
		2020	7690	2369	749	530	1019	71
RJ	April	2019	11443	2994	0	819	2166	9
		2020	15808	6955	2950	1173	2486	346
	May	2019	12727	3460	0	908	2536	16
		2020	20148	10634	6749	1054	2262	569
	June	2019	12260	3377	0	852	2521	4
		2020	13250	5754	3201	826	1530	197
SP	April	2019	24159	7767	0	2052	5684	31
		2020	26856	10648	3235	2862	4182	369
	May	2019	26583	8587	0	2275	6275	37
		2020	31870	13942	6537	2964	4018	423
	June	2019	28280	10094	0	2365	7698	31
		2020	31806	14782	7904	2468	4067	343

Table 2. [cont.] This table desegregate the number of deaths (see Table 1) for each month and year among the different respiratory causes in Brazil and in the states of the Central-western and Southeastern region. Data gathered on July 30th, 2020 from¹.

Southern region

State	Month	Year	Total	Respiratory	COVID-19	Resp. Insufficiency.	Pneumonia	SARI
PR	April	2019	5054	1302	0	414	880	8
		2020	5140	1442	191	393	821	37
	May	2019	5759	1558	0	435	1111	12
		2020	5335	1483	399	372	682	30
	June	2019	5886	1668	0	448	1202	18
		2020	5689	1794	754	340	662	38
RS	April	2019	6177	1640	0	567	1067	6
		2020	5947	1523	100	481	913	29
	May	2019	6815	1747	0	593	1147	7
		2020	6631	1668	258	468	911	31
	June	2019	7277	2101	0	636	1457	8
		2020	7049	2047	494	497	1024	32
SC	April	2019	2881	809	0	242	564	3
		2020	2871	747	69	234	428	16
	May	2019	3159	856	0	278	570	8
		2020	3003	786	137	239	400	10
	June	2019	3281	981	0	312	659	10
		2020	3247	911	237	226	433	15

Table 2. [cont.] This table desegregate the number of deaths (see Table 1) for each month and year among the different respiratory causes in Brazil and in the states of the Southern region. Data gathered on July 30th, 2020 from¹.

Northern region

State	Year	Cause	Age intervals												N.A.
			all	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	≥ 100	
AC	2019	Respiratory	31.64	33.55	17.24	18.33	20.00	18.02	25.93	33.84	36.05	39.86	40.14	47.62	6.45
		Septicemia	12.00	27.10	20.69	11.67	6.25	12.61	11.11	9.89	12.59	10.65	7.48	0.00	6.45
		Others	55.28	38.71	62.07	70.00	71.25	68.47	59.88	55.51	50.34	48.45	51.70	52.38	87.10
		Unknown	1.07	0.65	0.00	0.00	2.50	0.90	3.09	0.76	1.02	1.03	0.68	0.00	0.00
	2020	Respiratory	40.33	31.85	18.75	18.48	31.15	38.65	43.63	44.41	49.42	46.70	31.21	38.89	3.03
		Septicemia	9.19	29.30	8.33	7.61	5.74	8.59	7.34	9.78	9.28	5.16	5.73	0.00	0.00
		Others	64.78	38.22	72.92	72.83	60.66	51.53	48.26	44.41	40.37	47.56	62.42	61.11	96.97
AM	2019	Respiratory	22.06	22.36	18.75	14.47	16.77	17.76	16.77	18.67	25.42	25.13	33.47	20.78	36.67
		Septicemia	14.57	22.51	16.67	7.72	12.80	11.43	14.02	14.15	15.59	14.83	11.43	6.49	13.33
		Others	62.27	54.99	63.54	77.49	70.12	70.20	67.99	66.03	57.71	58.63	52.18	71.43	50.00
		Unknown	1.11	0.14	1.04	0.32	0.30	0.61	1.22	1.15	1.27	1.41	2.91	1.30	0.00
	2020	Respiratory	43.01	16.21	15.89	26.00	30.92	42.15	46.45	50.20	48.07	45.15	40.71	31.82	30.77
		Septicemia	9.41	27.71	17.76	11.00	11.59	7.85	8.80	8.15	7.10	8.61	7.67	3.03	0.00
		Others	71.88	55.92	66.36	62.67	57.00	49.04	44.08	40.62	44.03	45.09	48.38	59.09	69.23
AP	2019	Respiratory	29.39	30.88	26.67	12.12	27.54	14.77	24.68	23.81	30.62	41.75	40.59	54.55	29.27
		Septicemia	16.67	22.06	13.33	19.70	7.25	21.59	17.53	15.24	15.31	19.07	14.85	13.64	7.32
		Others	53.64	46.32	60.00	66.67	65.22	63.64	57.14	60.95	53.59	39.18	44.55	31.82	63.41
		Unknown	0.30	0.74	0.00	1.52	0.00	0.00	0.65	0.00	0.48	0.00	0.00	0.00	0.00
	2020	Respiratory	53.29	14.08	41.67	26.67	55.74	60.90	58.96	60.31	59.11	50.52	62.22	50.00	19.57
		Septicemia	15.25	28.17	0.00	10.00	14.75	6.77	8.96	7.00	4.12	5.73	4.44	0.00	28.26
		Others	41.74	57.75	58.33	61.67	27.87	32.33	32.08	32.68	36.77	43.75	33.33	50.00	52.17
PA	2019	Respiratory	29.84	30.43	23.86	16.23	21.99	24.57	26.67	27.37	31.16	35.64	39.11	34.10	25.45
		Septicemia	12.46	18.99	8.52	10.61	13.19	13.64	15.13	13.10	12.59	10.22	9.51	3.47	10.91
		Others	56.85	50.58	66.48	72.94	64.33	61.30	57.17	59.17	55.52	52.84	49.58	60.12	58.18
		Unknown	0.85	0.00	1.14	0.22	0.49	0.49	1.04	0.36	0.73	1.29	1.80	2.31	5.45
	2020	Respiratory	47.52	28.11	31.50	25.33	40.00	44.68	49.07	50.82	52.52	49.00	46.94	37.09	27.27
		Septicemia	8.83	20.03	14.00	7.64	10.00	7.71	7.22	9.14	7.18	7.64	7.01	6.62	3.03
		Others	61.50	51.35	54.50	66.81	49.58	47.06	42.99	39.73	39.77	42.88	44.81	54.30	68.18
RO	2019	Respiratory	25.71	20.34	22.22	17.00	15.04	20.43	20.42	22.93	27.66	35.12	37.32	45.00	0.81
		Septicemia	14.19	40.11	5.56	11.00	15.79	13.91	15.31	13.69	13.10	12.98	10.56	10.00	1.61
		Others	59.34	38.98	72.22	71.00	68.42	65.65	63.34	61.78	58.22	51.62	51.76	45.00	97.58
		Unknown	0.76	0.56	0.00	1.00	0.75	0.00	0.93	1.59	1.02	0.28	0.35	0.00	0.00
	2020	Respiratory	31.41	19.05	24.24	21.52	26.75	30.12	32.78	34.68	35.85	33.02	30.74	23.08	2.13
		Septicemia	14.55	39.46	18.18	11.39	7.01	10.04	9.03	12.75	14.01	11.42	11.28	0.00	0.00
		Others	54.17	40.14	57.58	67.09	64.97	59.07	58.19	52.10	49.86	55.40	56.81	76.92	94.68
RR	2019	Respiratory	27.23	27.52	18.75	12.68	12.50	25.33	22.43	22.31	36.63	42.14	37.04	37.50	3.45
		Septicemia	14.21	27.52	12.50	8.45	11.11	8.00	16.82	18.46	12.79	13.57	7.41	0.00	3.45
		Others	58.36	44.95	68.75	78.87	75.00	66.67	60.75	59.23	50.58	44.29	53.70	62.50	93.10
		Unknown	0.20	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00
	2020	Respiratory	43.80	29.59	24.24	22.06	39.80	36.43	39.60	49.32	52.79	54.50	44.44	45.45	13.33
		Septicemia	9.41	25.51	15.15	11.76	8.16	7.86	10.89	7.82	6.32	6.50	12.35	9.09	0.00
		Others	70.27	43.88	60.61	66.18	51.02	55.71	49.01	42.86	40.89	39.00	43.21	45.45	86.67
TO	2019	Respiratory	27.15	15.13	21.05	14.29	18.33	16.31	22.46	26.38	28.42	39.47	35.56	27.27	3.19
		Septicemia	10.77	37.82	5.26	12.70	11.67	9.22	9.75	8.99	12.39	9.11	7.11	2.27	0.00
		Others	60.85	45.38	73.68	69.84	65.83	72.34	66.95	63.77	58.55	51.42	55.56	68.18	92.55
		Unknown	1.22	1.68	0.00	3.17	4.17	2.13	0.85	0.87	0.64	0.00	1.78	2.27	4.26
	2020	Respiratory	30.79	13.04	10.00	17.02	23.08	30.25	31.17	28.68	32.58	38.10	38.39	27.27	1.47
		Septicemia	10.64	34.78	0.00	4.26	13.19	9.26	12.99	10.41	11.30	11.41	9.00	6.06	0.00
		Others	57.69	50.00	90.00	74.47	61.54	60.49	54.98	60.66	55.37	50.29	51.66	63.64	92.65
Unknown	0.88	2.17	0.00	4.26	2.20	0.00	0.87	0.25	0.75	0.19	0.95	3.03	5.88		

Table 3. Fraction of deaths (percentage) due to respiratory, septicemia, others and unknown causes at the states of the Northern Brazilian region. Each cell presents the percentage of deaths for the correspondent cause and in the correspondent age-interval in the first six months of year 2019 or 2020 for the correspondent state. Data gathered on July 30th, 2020 from¹.

Northeastern region

State	Year	Cause	Age intervals												N.A.
			all	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	≥ 100	
AL	2019	Respiratory	28.74	20.31	26.60	12.83	16.27	22.67	22.52	27.99	30.14	35.54	39.76	39.84	20.00
		Septicemia	13.93	20.75	14.89	10.62	13.56	14.17	14.65	15.26	13.87	12.82	10.02	11.38	0.00
		Others	56.68	58.50	57.45	74.78	68.81	62.75	62.35	56.16	55.27	51.00	49.62	48.78	80.00
		Unknown	0.66	0.44	1.06	1.77	1.36	0.40	0.48	0.59	0.72	0.64	0.61	0.00	0.00
	2020	Respiratory	35.46	18.55	16.22	15.62	25.81	31.27	34.96	40.61	40.13	36.71	38.12	29.03	0.00
		Septicemia	10.87	19.23	10.81	10.94	8.87	10.95	12.35	10.59	11.57	13.14	9.53	12.90	0.00
Others		66.91	61.99	71.17	73.44	64.52	57.20	52.26	48.45	47.96	49.57	51.13	58.06	100.00	
Unknown		0.49	0.23	1.80	0.00	0.81	0.58	0.43	0.35	0.33	0.58	1.21	0.00	0.00	
BA	2019	Respiratory	22.90	27.69	22.49	16.91	15.91	17.92	18.88	20.94	23.55	26.95	28.06	26.30	3.76
		Septicemia	13.84	22.06	13.88	10.41	14.80	12.44	12.74	14.55	14.64	14.80	12.74	8.85	1.29
		Others	63.06	50.04	63.64	72.12	68.78	69.25	68.06	64.41	61.59	58.14	59.06	64.71	94.60
		Unknown	0.20	0.21	0.00	0.56	0.50	0.39	0.32	0.11	0.22	0.10	0.14	0.13	0.35
	2020	Respiratory	26.89	23.42	21.61	21.74	24.92	25.57	25.23	27.66	28.65	28.93	30.08	23.02	6.20
		Septicemia	12.43	20.45	13.98	11.04	11.93	11.37	11.92	13.28	12.97	13.37	10.97	11.79	2.37
Others		67.07	55.89	63.56	67.22	62.99	62.97	62.32	58.82	58.14	57.40	58.61	65.01	91.32	
Unknown		0.28	0.23	0.85	0.00	0.16	0.09	0.53	0.23	0.24	0.30	0.34	0.18	0.11	
CE	2019	Respiratory	27.42	14.62	23.31	11.95	15.69	18.36	20.86	23.34	27.50	34.15	38.37	35.90	26.84
		Septicemia	12.37	15.73	12.88	8.81	10.70	13.14	12.62	13.88	13.51	12.14	9.95	6.92	9.56
		Others	59.95	69.47	63.19	78.20	73.46	68.12	66.32	62.60	58.73	53.53	51.30	56.92	63.60
		Unknown	0.26	0.19	0.61	1.05	0.15	0.39	0.20	0.18	0.26	0.18	0.39	0.26	0.00
	2020	Respiratory	42.32	14.43	16.97	16.67	29.80	37.76	40.31	45.53	47.02	47.86	43.49	37.38	33.90
		Septicemia	9.17	14.64	5.50	7.04	7.76	7.68	9.00	8.40	8.33	7.96	7.76	6.39	8.90
Others		66.10	70.50	76.15	76.01	61.94	54.19	50.36	45.62	44.44	43.94	48.55	55.59	56.78	
Unknown		0.31	0.43	1.38	0.29	0.51	0.38	0.33	0.45	0.21	0.25	0.19	0.64	0.42	
MA	2019	Respiratory	23.50	20.18	26.25	21.95	20.57	19.61	18.82	21.10	25.65	25.20	31.58	30.61	14.69
		Septicemia	9.76	17.88	17.50	8.29	12.20	8.59	11.29	9.65	8.43	9.53	7.02	5.44	5.59
		Others	66.01	60.53	56.25	67.32	66.51	71.15	69.48	68.29	65.09	65.00	61.17	61.90	77.62
		Unknown	0.73	1.42	0.00	2.44	0.72	0.65	0.41	0.96	0.83	0.27	0.23	2.04	2.10
	2020	Respiratory	37.67	19.14	23.08	28.98	33.99	32.77	37.68	40.59	39.55	39.87	39.66	29.29	39.20
		Septicemia	7.13	12.69	6.84	8.13	7.66	9.07	7.49	5.90	6.16	6.28	5.37	3.57	2.40
Others		75.17	67.31	69.23	60.78	57.17	56.92	54.20	52.91	53.91	52.98	54.57	67.14	58.40	
Unknown		0.69	0.86	0.85	2.12	1.18	1.25	0.62	0.60	0.37	0.87	0.40	0.00	0.00	
PB	2019	Respiratory	28.54	25.64	25.00	19.90	21.55	23.55	24.25	24.27	28.82	33.18	35.42	34.77	5.35
		Septicemia	14.89	25.84	21.74	15.82	15.47	15.66	13.25	14.71	15.65	15.03	13.82	8.61	0.82
		Others	56.07	48.32	52.17	62.24	62.71	59.94	61.92	60.51	55.11	51.40	50.06	56.62	93.83
		Unknown	0.50	0.20	1.09	2.04	0.28	0.85	0.58	0.50	0.42	0.38	0.70	0.00	0.00
	2020	Respiratory	33.08	22.77	22.22	27.44	31.23	32.04	31.66	31.45	34.31	37.22	37.00	28.24	4.78
		Septicemia	14.31	23.19	18.52	9.77	10.65	9.26	13.14	12.66	12.53	13.50	10.85	9.02	1.99
Others		55.90	53.19	59.26	61.40	56.42	55.94	54.49	55.28	52.66	48.73	51.89	61.57	92.83	
Unknown		0.74	0.85	0.00	1.40	1.69	2.75	0.72	0.62	0.50	0.55	0.26	1.18	0.40	
PE	2019	Respiratory	22.09	10.93	17.53	11.63	14.91	15.49	18.77	20.84	22.68	26.78	30.60	31.33	10.61
		Septicemia	23.08	18.85	11.16	14.18	16.00	17.94	19.66	24.46	25.22	26.73	24.50	21.58	16.72
		Others	54.25	69.33	69.32	71.63	67.18	65.85	60.91	54.20	51.74	46.13	44.69	46.47	72.03
		Unknown	0.58	0.89	1.99	2.55	1.91	0.72	0.66	0.49	0.37	0.35	0.22	0.62	0.64
	2020	Respiratory	34.18	12.92	24.64	17.65	27.94	28.59	33.91	36.34	38.13	37.56	35.13	31.96	17.45
		Septicemia	18.88	15.51	11.43	9.70	12.25	13.79	14.18	15.86	17.48	18.31	19.01	15.30	7.48
Others		59.41	70.06	61.07	70.49	59.07	56.52	50.69	47.03	43.63	43.53	45.01	52.28	71.65	
Unknown		0.91	1.51	2.86	2.16	0.74	1.10	1.22	0.78	0.77	0.61	0.85	0.46	3.43	
PI	2019	Respiratory	34.71	33.19	41.86	20.00	28.36	30.10	26.42	29.42	33.26	42.56	42.69	46.61	11.45
		Septicemia	12.61	27.16	11.63	17.89	12.44	15.05	13.21	13.51	14.02	10.36	9.16	7.63	8.43
		Others	52.16	38.79	46.51	60.00	57.71	54.34	59.91	56.65	52.50	46.58	47.45	45.76	79.52
		Unknown	0.51	0.86	0.00	2.11	1.49	0.51	0.46	0.42	0.23	0.50	0.70	0.00	0.60
	2020	Respiratory	34.52	29.71	21.88	30.63	27.96	27.97	32.21	33.01	37.67	36.23	40.92	34.25	9.09
		Septicemia	14.28	25.36	12.50	18.02	17.20	12.66	9.13	13.06	11.05	11.19	7.83	8.22	3.03
Others		47.29	44.93	65.62	49.55	53.76	59.37	58.49	53.61	50.82	51.90	50.66	56.16	86.87	
Unknown		0.49	0.00	0.00	1.80	1.08	0.00	0.16	0.32	0.47	0.68	0.59	1.37	1.01	
RN	2019	Respiratory	30.83	29.13	30.36	22.02	20.85	20.05	23.03	24.53	30.13	36.64	43.70	44.44	10.46
		Septicemia	15.82	22.44	10.71	7.74	13.62	16.29	13.70	16.29	16.80	18.04	14.54	11.11	6.54
		Others	52.43	44.88	58.93	64.29	62.13	62.16	61.82	58.55	52.75	45.01	41.51	43.83	79.74
		Unknown	0.92	3.54	0.00	5.95	3.40	1.50	1.45	0.63	0.32	0.31	0.26	0.62	3.27
	2020	Respiratory	35.48	22.33	28.00	20.57	32.18	25.93	31.11	32.83	37.63	42.07	42.63	40.29	6.57
		Septicemia	14.32	28.84	10.00	9.71	13.49	12.04	11.19	12.11	15.34	13.29	11.62	9.35	2.92
Others		56.12	48.84	60.00	68.57	53.63	60.74	56.62	54.30	46.70	44.43	45.05	50.36	88.32	
Unknown		0.62	0.00	2.00	1.14	0.69	1.30	1.08	0.76	0.34	0.22	0.71	0.00	2.19	
SE	2019	Respiratory	23.86	17.26	29.41	21.49	18.63	14.73	16.52	20.65	26.08	29.75	33.17	23.26	11.65
		Septicemia	18.19	27.38	21.57	14.88	16.18	17.28	16.35	19.42	20.31	16.94	15.62	14.73	8.74
		Others	57.19	54.76	49.02	63.64	64.71	67.14	65.76	58.93	52.88	52.62	50.89	62.02	77.67
		Unknown	0.76	0.60	0.00	0.00	0.49	0.85	1.36	1.00	0.73	0.69	0.32	0.00	1.94
	2020	Respiratory	32.00	19.85	32.08	33.90	30.70	29.32	27.70	31.01	33.62	37.23	37.41	33.33	10.19
		Septicemia	17.45	24.63	9.43	5.08	14.47	12.28	14.32	16.43	16.21	12.94	14.31	7.25	13.89
Others		54.45	54.78	54.72	60.17	51.32	57.89	57.16	51.79	49.57	49.20	47.41	53.62	73.15	
Unknown		0.93	0.74	3.77	0.85	3.51	0.50	0.81	0.77	0.60	0.62	0.86	5.80	2.78	

Table 3. [cont.] Fraction of deaths (percentage) due to respiratory, septicemia, others and unknown causes at the states of the Northeastern Brazilian region. Each cell presents the percentage of deaths for the correspondent cause and in the correspondent age-interval in the first six months of year 2019 or 2020 for the correspondent state. Data gathered on July 30th, 2020 from¹.

Central-western region

State	Year	Cause	Age intervals												N.A.
			all	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	≥ 100	
DF	2019	Respiratory	31.27	23.30	36.84	22.64	20.51	23.96	24.69	27.19	34.22	37.57	45.23	43.04	1.44
		Septicemia	17.79	25.57	7.02	15.09	15.81	15.62	17.63	17.61	18.56	20.71	15.61	8.86	0.00
		Others	49.96	48.87	54.39	58.49	59.40	58.13	56.17	54.56	47.07	41.50	38.73	48.10	94.96
		Unknown	0.99	2.27	1.75	3.77	4.27	2.29	1.51	0.64	0.15	0.21	0.43	0.00	3.60
	2020	Respiratory	36.43	21.97	16.42	18.31	24.71	29.32	33.79	36.44	39.03	45.43	48.46	44.44	0.72
		Septicemia	16.29	25.48	7.46	8.45	8.43	13.67	11.76	15.65	14.94	14.15	7.94	0.00	0.00
		Others	53.08	51.59	74.63	70.89	64.53	55.40	53.54	47.51	44.80	39.50	36.91	46.03	97.84
		Unknown	0.76	0.96	1.49	2.35	2.33	1.62	0.91	0.40	0.60	0.14	0.49	1.59	1.44
GO	2019	Respiratory	32.85	25.82	25.47	13.42	22.66	21.71	26.06	28.88	35.48	41.31	46.19	45.58	2.74
		Septicemia	12.78	22.55	10.38	7.99	9.74	11.97	11.75	12.24	13.82	13.80	11.85	6.12	3.42
		Others	53.90	51.29	64.15	77.32	66.40	65.85	61.42	58.48	50.28	44.53	41.61	47.62	93.84
		Unknown	0.47	0.34	0.00	1.28	1.19	0.47	0.77	0.40	0.42	0.36	0.35	0.68	0.00
	2020	Respiratory	36.57	22.37	20.00	22.01	31.15	28.71	30.79	35.44	39.83	43.63	46.58	45.14	1.41
		Septicemia	12.50	28.64	8.00	8.18	11.35	11.09	12.24	12.71	13.26	12.80	13.02	8.33	1.88
		Others	51.20	48.10	71.20	69.50	56.15	59.31	56.20	51.38	46.36	43.23	40.23	45.83	94.84
		Unknown	0.57	0.89	0.80	0.31	1.35	0.89	0.78	0.47	0.55	0.34	0.17	0.69	1.88
MS	2019	Respiratory	33.43	17.54	32.73	18.85	28.39	24.33	23.28	30.83	34.88	42.47	44.96	45.24	13.79
		Septicemia	12.51	15.95	9.09	11.48	15.25	11.44	10.66	13.41	12.96	12.05	11.91	10.71	0.00
		Others	53.48	66.06	56.36	68.85	55.51	63.02	65.20	55.44	51.70	45.04	42.41	42.86	86.21
		Unknown	0.58	0.46	1.82	0.82	0.85	1.22	0.86	0.33	0.46	0.44	0.71	1.19	0.00
	2020	Respiratory	31.27	15.69	21.88	21.05	23.08	28.66	26.11	30.88	32.62	37.48	40.22	38.18	4.00
		Septicemia	12.58	15.69	12.50	15.79	12.82	15.24	10.83	12.54	13.06	13.13	10.02	7.27	12.00
		Others	55.26	67.92	64.06	61.65	63.25	55.49	62.70	56.35	54.13	48.98	49.30	54.55	84.00
		Unknown	0.40	0.70	1.56	1.50	0.85	0.61	0.36	0.23	0.19	0.41	0.47	0.00	0.00
MT	2019	Respiratory	15.13	13.37	16.95	9.86	8.66	12.33	13.23	13.52	16.58	18.05	20.57	21.82	1.64
		Septicemia	6.48	11.70	6.78	4.23	9.09	4.85	5.82	4.45	6.88	7.36	6.78	5.45	1.64
		Others	78.10	74.09	76.27	85.92	82.25	82.82	80.42	81.94	76.31	74.34	72.21	72.73	93.44
		Unknown	0.29	0.84	0.00	0.00	0.00	0.00	0.53	0.09	0.23	0.26	0.44	0.00	3.28
	2020	Respiratory	15.50	7.18	16.25	7.04	10.18	13.08	13.40	16.14	17.27	19.43	17.94	24.32	12.09
		Septicemia	5.91	10.63	2.50	3.02	5.61	4.63	4.47	5.05	5.92	6.71	5.25	2.70	3.30
		Others	86.17	81.90	81.25	89.45	83.86	82.29	82.02	78.19	76.74	73.60	76.81	72.97	84.62
		Unknown	0.24	0.29	0.00	0.50	0.35	0.00	0.12	0.61	0.07	0.26	0.00	0.00	0.00

Table 3. [cont.] Fraction of deaths (percentage) due to respiratory, septicemia, others and unknown causes at the states of the Central-western Brazilian region. Each cell presents the percentage of deaths for the correspondent cause and in the correspondent age-interval in the first six months of year 2019 or 2019 for the correspondent state. Data gathered on July 30th, 2020 from¹.

Southeastern region

State	Year	Cause	Age intervals											N.A.	
			all	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99		≥ 100
ES	2019	Respiratory	28.10	22.25	21.21	14.71	16.80	19.56	20.28	23.38	27.84	36.42	40.82	51.50	4.46
		Septicemia	16.18	30.49	15.15	11.76	10.67	14.24	14.68	14.76	16.97	18.27	16.90	10.18	2.48
		Others	55.68	46.98	63.64	73.53	72.53	66.20	64.96	61.76	55.19	45.31	42.28	38.32	92.57
		Unknown	0.04	0.27	0.00	0.00	0.00	0.00	0.08	0.10	0.00	0.00	0.00	0.00	0.50
	2020	Respiratory	36.32	16.16	25.86	20.07	29.35	28.95	31.97	35.90	39.53	42.56	44.65	51.92	2.79
		Septicemia	14.30	24.70	13.79	10.21	13.09	11.72	12.99	13.14	14.82	15.55	14.47	9.62	0.00
		Others	56.21	59.15	60.34	69.72	57.56	59.21	55.05	50.92	45.65	41.89	40.88	38.46	96.81
		Unknown	0.02	0.00	0.00	0.00	0.00	0.12	0.00	0.04	0.00	0.00	0.00	0.00	0.40
MG	2019	Respiratory	26.67	20.30	17.33	15.76	17.48	19.83	19.02	22.30	26.36	32.62	38.40	38.32	3.67
		Septicemia	15.47	25.34	14.44	12.15	13.98	13.88	14.46	16.18	17.00	15.32	14.56	13.29	2.11
		Others	56.31	52.95	64.62	69.07	65.76	64.14	64.76	59.94	55.32	50.75	45.91	47.07	90.74
		Unknown	1.55	1.41	3.61	3.01	2.78	2.14	1.77	1.58	1.32	1.31	1.14	1.32	3.48
	2020	Respiratory	27.14	15.47	20.45	18.09	18.64	20.85	21.55	23.76	28.69	32.94	36.15	39.34	3.50
		Septicemia	15.97	23.86	15.02	11.31	12.18	13.55	13.70	15.13	16.11	15.30	14.05	9.09	1.91
		Others	54.79	59.56	62.62	67.96	66.59	63.28	62.96	59.83	53.89	50.58	48.68	49.83	90.15
		Unknown	1.48	1.11	1.92	2.64	2.59	2.31	1.79	1.28	1.31	1.17	1.12	1.75	4.45
RJ	2019	Respiratory	25.75	17.09	16.80	16.95	20.22	19.49	21.01	21.96	25.69	30.30	35.81	35.08	5.90
		Septicemia	18.15	25.32	13.95	12.83	13.82	14.27	15.99	16.62	18.49	20.28	20.56	15.36	4.78
		Others	56.04	57.55	69.25	70.22	65.79	66.12	62.97	61.38	55.77	49.39	43.61	49.55	88.52
		Unknown	0.05	0.04	0.00	0.00	0.17	0.11	0.03	0.04	0.06	0.04	0.02	0.00	0.80
	2020	Respiratory	38.64	12.25	21.21	24.05	34.95	37.14	37.86	39.24	41.40	41.85	41.45	33.28	8.63
		Septicemia	15.20	24.84	11.61	8.79	11.11	10.36	10.08	11.65	13.12	14.88	14.93	12.85	2.31
		Others	56.60	62.52	66.29	66.21	52.86	51.04	50.86	47.97	44.37	42.20	42.54	52.22	88.16
		Unknown	1.11	0.39	0.89	0.95	1.08	1.47	1.20	1.14	1.11	1.06	1.07	1.65	0.90
SP	2019	Respiratory	32.62	15.78	24.88	17.56	21.83	23.54	25.90	29.08	33.56	39.42	44.08	43.07	15.11
		Septicemia	14.52	21.50	12.31	10.38	11.18	12.81	12.73	14.23	15.27	15.37	14.48	13.16	6.33
		Others	52.41	61.90	61.32	70.86	66.18	62.67	60.90	56.20	50.90	44.91	41.20	43.39	75.92
		Unknown	0.45	0.81	1.49	1.20	0.81	0.99	0.47	0.49	0.27	0.29	0.23	0.39	2.64
	2020	Respiratory	38.40	14.73	23.67	22.48	30.63	34.15	34.68	38.11	40.94	43.56	43.62	42.33	11.14
		Septicemia	13.33	19.60	10.23	8.43	9.88	9.90	10.46	11.36	12.61	12.89	12.58	11.11	3.38
		Others	53.47	65.05	65.35	67.61	58.58	55.16	54.22	50.03	46.05	43.16	43.36	45.55	84.14
		Unknown	0.53	0.62	0.75	1.48	0.92	0.79	0.63	0.50	0.40	0.40	0.45	1.01	1.35

Southern region

State	Year	Cause	Age intervals											N.A.	
			all	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99		≥ 100
PR	2019	Respiratory	26.40	24.12	23.12	13.74	17.87	18.16	19.86	23.16	27.70	32.73	35.53	32.34	3.00
		Septicemia	14.67	24.56	14.45	9.88	10.32	14.10	13.86	14.83	16.32	14.73	13.85	11.90	1.74
		Others	58.42	51.22	62.43	76.21	71.59	67.32	65.56	61.41	55.56	52.03	49.94	53.90	95.10
		Unknown	0.51	0.11	0.00	0.17	0.22	0.42	0.71	0.60	0.42	0.51	0.68	1.86	0.16
	2020	Respiratory	27.78	22.93	18.56	14.31	18.68	18.82	23.12	25.50	30.10	33.55	35.72	30.19	5.39
		Septicemia	14.53	20.76	13.40	7.90	9.71	12.12	12.67	13.98	14.56	13.76	12.30	6.60	2.20
		Others	58.78	55.90	68.04	77.05	70.54	68.62	63.59	59.91	54.72	51.93	51.21	62.74	92.22
		Unknown	0.65	0.41	0.00	0.75	1.07	0.45	0.62	0.61	0.61	0.77	0.77	0.47	0.20
RS	2019	Respiratory	26.39	15.25	29.41	24.76	22.10	20.36	20.13	22.89	25.80	30.77	34.90	30.34	1.75
		Septicemia	15.22	27.48	21.57	20.20	15.16	14.82	14.99	14.17	15.91	15.34	13.95	10.19	1.17
		Others	57.72	56.77	49.02	53.75	61.61	63.77	63.89	62.33	57.65	53.24	50.67	59.22	96.20
		Unknown	0.67	0.50	0.00	1.30	1.13	1.05	0.99	0.62	0.63	0.64	0.48	0.24	0.88
	2020	Respiratory	26.05	13.49	25.81	27.72	21.88	21.23	22.87	23.62	25.79	29.83	32.55	30.53	1.38
		Septicemia	15.21	23.13	18.55	15.49	14.50	13.29	14.47	14.09	14.87	15.07	14.00	7.72	0.83
		Others	58.75	63.37	54.84	56.25	62.34	64.77	61.73	61.57	58.71	54.54	52.71	60.00	96.69
		Unknown	0.69	0.00	0.81	0.54	1.27	0.71	0.93	0.72	0.63	0.56	0.74	1.75	1.10
SC	2019	Respiratory	27.40	21.01	24.29	20.28	21.41	21.03	21.29	25.32	27.40	31.49	35.32	37.80	11.84
		Septicemia	14.42	27.47	24.29	15.57	12.98	13.94	12.99	13.59	14.26	15.05	13.58	7.93	5.26
		Others	57.65	51.35	51.43	63.68	64.69	64.34	65.20	60.76	57.80	52.77	50.64	54.27	81.58
		Unknown	0.53	0.18	0.00	0.47	0.91	0.69	0.52	0.33	0.55	0.68	0.46	0.00	1.32
	2020	Respiratory	26.38	19.26	31.46	17.78	23.19	19.98	21.59	23.25	27.99	30.92	32.61	22.55	14.29
		Septicemia	14.60	21.60	13.48	11.56	10.07	11.36	12.38	13.64	13.58	14.75	11.89	10.78	9.82
		Others	58.81	59.14	55.06	70.22	65.86	67.93	65.61	62.77	57.67	53.75	54.86	65.69	75.00
		Unknown	0.56	0.00	0.00	0.44	0.88	0.74	0.42	0.34	0.76	0.57	0.64	0.98	0.89

Table 3. [cont.] Fraction of deaths (percentage) due to respiratory, septicemia, others and unknown causes at the states of the Southeastern and Southern Brazilian regions. Each cell presents the percentage of deaths for the correspondent cause and in the correspondent age-interval in the first six months of year 2019 or 2020 for the correspondent state. Data gathered on July 30th, 2020 from¹.

References

1. Portal da Transparência - Registro Civil. <https://transparencia.registrocivil.org.br> (Accessed in 07/30/2020).