

Supplementary data

Title: Evaluation of strategies to fight COVID-19: The French paradigm

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Supplementary data S1

Deaths from all causes among people living in the Sud region	2018	2019	2020
January	5207	5137	4781
% excess	-8,2	-6,9	
February	4361	4732	4256
% excess	-2,4	-10,1	
March	4707	4480	4852
% excess	3,1	8,3	
April	4040	4047	4725
% excess	17,0	16,8	
May	3945	3977	3956
% excess	0,3	-0,5	
June	3767	3846	3893
% excess	3,3	1,2	
July	3958	4060	3982
% excess	0,6	-1,9	
August	4191	3988	4052
% excess	-3,3	1,6	
TOTAL Jan-Aug	34176	34267	34497
Excess deaths/2020	321	230	
% excess	0,9	0,7	

Deaths from all causes among people living in Grand-Est	2018	2019	2020
January	5164	5165	4986
% excess	-3,4	-3,5	
February	4608	4846	4583
% excess	-0,5	-5,4	
March	5641	4772	7057
% excess	25,1	47,9	
April	4445	4288	7081
% excess	59,3	65,1	
May	4078	4269	4282
% excess	5,0	0,3	
June	3818	4030	4033
% excess	5,6	0,1	
July	4346	4182	4028
% excess	-7,3	-3,7	
August	4094	4102	4294
% excess	4,9	4,7	
TOTAL Jan-Aug	36194	35654	40344
Excess deaths/2020	4150	4690	
% excess	11,5	13,2	

Deaths from all causes among people living in Ile-de-France	2018	2019	2020
January	7366	7642	7163
% excess	-2,8	-6,3	
February	6442	6879	6277
% excess	-2,6	-8,8	
March	7291	6388	9746
% excess	33,7	52,6	
April	6117	6030	14221
% excess	132,5	135,8	
May	6032	6008	6569
% excess	8,9	9,3	
June	5584	5826	5747
% excess	2,9	-1,4	
July	6052	6051	5629
% excess	-7,0	-7,0	
August	5502	5732	6000
% excess	9,1	4,7	
TOTAL Jan-Aug	50386	50556	61352
Excess deaths/2020	10966	10796	
% excess	21,8	21,4	

Deaths from all causes among people living in New-Aquitaine	2018	2019	2020
January	6188	6552	6115
% excess	-1,2	-6,7	
February	5726	5947	5492
% excess	-4,1	-7,7	
March	6463	5703	5978
% excess	-7,5	4,8	
April	5442	5271	5304
% excess	-2,5	0,6	
May	5128	5321	5018
% excess	-2,1	-5,7	
June	4964	4970	4864
% excess	-2,0	-2,1	
July	5120	5085	5100
% excess	-0,4	0,3	
August	4986	4942	4971
% excess	-0,3	0,6	
TOTAL Jan-Aug	44017	43791	42842
Excess deaths/2020	-1175	-949	
% excess	-2,7	-2,2	

Supplementary data S2

Deaths from all causes in public or private hospitals among people living in the Sud region	2 018	2 019	2 020
January	2 679	2 666	2 486
% excess	-7	-7	
February	2 203	2 420	2 197
% excess	0	-9	
March	2 392	2 327	2 080
% excess	-13	-11	
April	2 078	2 156	2 070
% excess	0	-4	
May	2 106	2 032	1 865
% excess	-11	-8	
June	2 009	2 029	1 924
% excess	-4	-5	
July	2 079	2 106	1 995
% excess	-4	-5	
August	2 149	2 048	2 039
% excess	-5	0	
TOTAL Jan-Aug	17 695	17 784	16 656
Excess deaths/2020	-1 039	-1 128	
% excess	-5,9	-6,3	

Deaths from all causes in public or private hospitals among people living in Grand-Est	2 018	2 019	2 020
January	3 016	2 899	2 822
% excess	-6	-3	
February	2 685	2 799	2 580
% excess	-4	-8	
March	3 195	2 741	3 928
% excess	23	43	
April	2 538	2 459	3 632
% excess	43	48	
May	2 363	2 464	2 269
% excess	-4	-8	
June	2 298	2 368	2 235
% excess	-3	-6	
July	2 580	2 427	2 208
% excess	-14	-9	
August	2 424	2 377	2 442
% excess	1	3	
TOTAL Jan-Sep 7	21 099	20 534	22 116
Excess deaths/2020	1 017	1 582	

Deaths from all causes in public or private hospitals among people living in Ile-de-France	2 018	2 019	2 020
January	4 421	4 642	4 344
% excess	-2	-6	
February	3 923	4 135	3 859
% excess	-2	-7	
March	4 356	3 899	5 624
% excess	29	44	
April	3 701	3 766	7 388
% excess	100	96	
May	3 757	3 621	3 787
% excess	1	5	
June	3 518	3 643	3 418
% excess	-3	-6	
July	3 744	3 750	3 397
% excess	-9	-9	
August	3 370	3 589	3 595
% excess	7	0	
TOTAL Jan-Aug	30 790	31 045	35 412
Excess deaths/2020	4 622	4 367	
% excess	15,0	14,1	

Deaths from all causes in public or private hospitals among people living in New-Aquitaine	2 018	2 019	2 020
January	3 169	3 277	3 141
% excess	-1	-4	
February	2 942	2 946	2 823
% excess	-4	-4	
March	3 253	2 855	2 944
% excess	-9	3	
April	2 749	2 643	2 461
% excess	-10	-7	
May	2 660	2 810	2 451
% excess	-8	-13	
June	2 532	2 650	2 469
% excess	-2	-7	
July	2 641	2 608	2 545
% excess	-4	-2	
August	2 539	2 477	2 588
% excess	2	4	
TOTAL Jan-Aug	22 485	22 266	21 422
Excess deaths/2020	-1 063	-844	

% excess 4,8 7,7
Supplementary data S3

Deaths from all causes in hospice or among dependent elderly residents in retirement homes in the Sud region	2018	2019	2020
January	630	587	593
% excess	-5,9	1,0	
February	513	621	468
% excess	-8,8	-24,6	
March	605	520	612
% excess	1,2	17,7	
April	466	464	701
% excess	50,4	51,1	
May	443	507	433
% excess	-2,3	-14,6	
June	397	469	456
% excess	14,9	-2,8	
July	448	458	453
% excess	1,1	-1,1	
August	479	509	455
% excess	-5,0	-10,6	
TOTAL Jan-Aug	3981	4135	4171
Excess deaths/2020	190	36	
% excess	4,8	0,9	

Deaths from all causes in hospice or among dependent elderly residents in retirement homes in Grand-Est	2018	2019	2020
January	679	718	695
% excess	2,4	-3,2	
February	640	680	671
% excess	4,8	-1,3	
March	896	693	1144
% excess	27,7	65,1	
April	659	587	1466
% excess	122,5	149,7	
May	597	539	687
% excess	15,1	27,5	
June	486	500	605
% excess	24,5	21,0	
July	562	582	632
% excess	12,5	8,6	
August	559	563	641
% excess	14,7	13,9	
TOTAL Jan-Aug	5078	4862	6541
Excess deaths/2020	1463	1679	

% excess -4,7 -3,8

Deaths from all causes in hospice or among dependent elderly residents in retirement homes in Ile-de-France	2018	2019	2020
January	786	771	693
% excess	-11,8	-10,1	
February	680	711	625
% excess	-8,1	-12,1	
March	860	635	1210
% excess	40,7	90,6	
April	645	573	2695
% excess	317,8	370,3	
May	597	625	728
% excess	21,9	16,5	
June	517	539	589
% excess	13,9	9,3	
July	576	551	553
% excess	-4,0	0,4	
August	535	547	596
% excess	11,4	9,0	
TOTAL Jan-Aug	5196	4952	7689
Excess deaths/2020	2493	2737	
% excess	48,0	55,3	

Deaths from all causes in hospice or among dependent elderly residents in retirement homes in New-Aquitaine	2018	2019	2020
January	989	1010	961
% excess	-2,8	-4,9	
February	889	935	829
% excess	-6,7	-11,3	
March	1056	863	944
% excess	-10,6	9,4	
April	852	813	940
% excess	10,3	15,6	
May	773	747	781
% excess	1,0	4,6	
June	790	653	799
% excess	1,1	22,4	
July	757	700	836
% excess	10,4	19,4	
August	753	752	766
% excess	1,7	1,9	
TOTAL Jan-Aug	6859	6473	6856
Excess deaths/2020	-3	383	

% excess 28,8 34,5

% excess 0,0 5,9

Supplementary data S4

Deaths from all causes at home among people living in the Sud region	2018	2019	2020
January	1500	1459	1320
% excess	-12,0	-9,5	
February	1245	1345	1206
% excess	-3,1	-10,3	
March	1313	1291	1348
% excess	2,7	4,4	
April	1161	1117	1504
% excess	29,5	34,6	
May	1109	1122	1307
% excess	17,9	16,5	
June	1075	1066	1209
% excess	12,5	13,4	
July	1096	1156	1211
% excess	10,5	4,8	
August 24th	1222	1103	1213
% excess	-0,7	10,0	
TOTAL Jan-Aug	9721	9659	10318
Excess deaths/2020	597	659	
% excess	6,1	6,8	

Deaths from all causes at home among people living in Grand-Est	2018	2019	2020
January	1176	1220	1115
% excess	-5,2	-8,6	
February	1043	1070	1006
% excess	-3,5	-6,0	
March	1245	1044	1542
% excess	23,9	47,7	
April	1027	988	1560
% excess	51,9	57,9	
May	871	950	1016
% excess	16,6	6,9	
June	795	907	958
% excess	20,5	5,6	
July	941	893	920
% excess	-2,2	3,0	
August 24th	881	904	945
% excess	7,3	4,5	
TOTAL Jan-Sep 7	7979	7976	9062
Excess of deaths/2020	1083	1086	
% excess	13,6	13,6	

Deaths from all causes at home among people living in Ile-de-France	2018	2019	2020
January	1626	1675	1604
% excess	-1,4	-4,2	
February	1388	1517	1342
% excess	-3,3	-11,5	
March	1564	1410	2256
% excess	44,2	60,0	
April	1319	1312	3220
% excess	144,1	145,4	
May	1233	1341	1554
% excess	26,0	15,9	
June	1106	1212	1308
% excess	18,3	7,9	
July	1259	1244	1209
% excess	-4,0	-2,8	
August 24th	1179	1132	1300
% excess	10,3	14,8	
TOTAL Jan-Aug	10674	10843	13793
Excess deaths/2020	3119	2950	
% excess	29,2	27,2	

Deaths from all causes at home among people living in New-Aquitaine	2018	2019	2020
January	1536	1634	1470
% excess	-4,3	-10,0	
February	1485	1532	1319
% excess	-11,2	-13,9	
March	1644	1394	1603
% excess	-2,5	15,0	
April	1364	1271	1470
% excess	7,8	15,7	
May	1245	1254	1380
% excess	10,8	10,0	
June	1228	1180	1229
% excess	0,1	4,2	
July	1240	1209	1319
% excess	6,4	9,1	
August 24th	1189	1212	1241
% excess	4,4	2,4	
TOTAL Jan-Sep 7	10931	10686	11031
Excess of deaths/2020	100	345	
% excess	0,9	3,2	

Supplementary table S1 – Age classes of COVID-19-associated fatalities at IHU Méditerranée Infection, at AP-HM, in French regions and in France overall.

	0-9 N (%)	9-19 N (%)	20-29 N (%)	30-39 N (%)	40-49 N (%)	50-59 N (%)	60-69 N (%)	70-79 N (%)	80-89 N (%)	90 and more N (%)	TOTAL
IHU Méditerranée Infection	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2.3)	2 (4.7)	14 (32.6)	18 (41.9)	8 (18.6)	43
AP-HM total	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (3.1)	12 (9.2)	33 (25.4)	49 (37.7)	32 (24.6)	130
Auvergne – Rhône-Alpes	0 (0)	0 (0)	1 (0.1)	4 (0.2)	12 (0.7)	44 (2.6)	130 (7.8)	340 (20.4)	705 (42.4)	428 (25.7)	1,664
Bourgogne-Franche-Comté	0 (0)	0 (0)	0 (0)	3 (0.3)	6 (0.6)	25 (2.5)	86 (8.5)	207 (20.5)	448 (44.3)	236 (23.3)	1,011
Bretagne	0 (0)	0 (0)	0 (0)	0 (0)	1 (0.4)	8 (3.2)	28 (11.1)	52 (20.6)	93 (36.9)	70 (27.8)	252
Centre – Val de Loire	0 (0)	0 (0)	1 (0.2)	2 (0.4)	3 (0.6)	13 (2.6)	37 (7.3)	86 (16.9)	200 (39.4)	166 (32.7)	508
Corse	0 (0)	0 (0)	0 (0)	0 (0)	1 (1.7)	1 (1.7)	2 (3.4)	16 (27.7)	25 (43.1)	13 (22.4)	58
Grand-Est	1 (0.03)	0 (0)	2 (0.1)	16 (0.5)	35 (1.0)	98 (2.9)	366 (10.7)	851 (24.8)	1,391 (40.6)	669 (19.5)	3,429
Hauts-de-France	0 (0)	0 (0)	1 (0.1)	4 (0.2)	12 (0.7)	70 (4.0)	231 (13.3)	378 (21.7)	688 (39.6)	354 (20.4)	1,738
Ile-de-France	2 (0.03)	3 (0.04)	12 (0.2)	49 (0.7)	132 (1.9)	503 (7.1)	1,039 (14.7)	1,665 (23.5)	2,272 (32.0)	1,412 (19.9)	7,089
Normandie	0 (0)	0 (0)	0 (0)	2 (0.5)	10 (2.4)	16 (3.8)	56 (13.3)	93 (22.1)	163 (38.8)	80 (19.0)	420
New-Aquitaine	0 (0)	0 (0)	2 (0.5)	2 (0.5)	2 (0.5)	13 (3.3)	38 (9.5)	90 (22.6)	152 (38.2)	99 (24.9)	398
Occitanie	0 (0)	0 (0)	1 (0.1)	1 (0.1)	3 (0.3)	17 (1.9)	58 (6.4)	102 (11.3)	191 (21.1)	124 (13.7)	497
Sud	0 (0)	0 (0)	1 (0.1)	1 (0.1)	4 (0.4)	35 (3.9)	75 (8.3)	188 (20.8)	378 (41.8)	222 (24.6)	904
Pays de la Loire	0 (0)	0 (0)	0 (0)	0 (0)	4 (0.9)	13 (2.9)	46 (10.4)	80 (18.1)	182 (41.3)	116 (26.3)	441
France	3 (0.02)	3 (0.02)	21 (0.1)	84 (0.5)	229 (1.2)	861 (4.7)	2,203 (11.9)	4,165 (22.6)	6,902 (37.4)	3,991 (21.6)	18,462

Supplementary table S2 – COVID-19-associated fatalities in patients under 60 years of age.

	< 60 years N (%)	≥ 60 years N (%)	TOTAL
IHU Méditerranée Infection	1 (2.3)	42 (97.7)	43
AP-HM total	4 (3.1)	126 (96.9)	130
Auvergne – Rhône-Alpes	61 (3.7)	1,603 (96.3)	1,664
Bourgogne-Franche-Comté	34 (3.4)	977 (96.6)	1,011
Bretagne	9 (3.6)	243 (96.4)	252
Centre – Val de Loire	19 (3.7)	489 (96.3)	508
Corse	2 (3.4)	56 (96.6)	58
Grand-Est	152 (4.4)	3,277 (95.6)	3,429
Hauts-de-France	87 (5.0)	1,651 (95.0)	1,738
Ile-de-France	701 (9.9)	6,388 (90.1)	7,089
Normandie	28 (6.7)	392 (93.3)	420
New-Aquitaine	19 (4.8)	379 (95.2)	398
Occitanie	22 (4.4)	475 (95.6)	497
Sud	41 (4.5)	863 (95.5)	904
Pays de la Loire	17 (3.9)	424 (96.1)	441
France	1,201 (6.5)	17,261 (93.5)	18,462