Appendix 1

Table 1: Demographic characteristics and clinical presentation characteristics of the patients admitted for acute coronary syndrome between the years 2016, 2017, 2018 and 2019. IQR – interquartile range, MACE – major adverse cardiac events.

	2016 (N=1106)	2017 (N=871)	2018 (N=697)	2019 (N=952)	2020 (N=642)	*p*-value
Age (years)	66 ± 13	65 ± 13	66 ± 13	66 ± 13	65 ± 13	0.258
Sex (male) (N/%)	825 (74.6%)	620 (71.2%)	530 (76.0%)	708 (74.4%)	499 (77.7)	0.051
Smoking (N/%)	305 (33.7%)	246 (34.5%)	203 (36.7%)	242 (32.1%)	189 (37.1%)	0.301
Arterial hypertension (N/%)	703 (66.2%)	579 (69.5%)	442 (65.1%)	620 (67.6%)	396 (65.3%)	0.324
Diabetes mellitus (N/%)	330 (30.8%)	263 (31.4%)	216 (31.9%)	277 (31.9%)	160 (26.4%)	0.172
Dyslipidaemia (N/%)	587 (56.8%)	464 (56.4%)	359 (52.8%)	507 (55.3%)	318 (52.6%)	0.298
Familiar cardiovascular history (N/%)	74 (7.8%)	51 (6.1%)	29 (4.4%)	22 (2.4%)	26 (4.5%)	<0.001
Angina (N/%)	233 (24.0%)	159 (22.6%)	125 (21.0%)	188 (24.6%)	100 (21.6%)	0.459
Previous ACS (N/%)	165 (16.8%)	125 (17.9%)	88 (14.6%)	132 (16.5%)	87 (18.8%)	0.384
Valvular heart disease (N/%)	40 (4.1%)	19 (2.7%)	14 (2.3%)	18 (2.2%)	13 (2.8%)	0.131
Previous heart failure (N/%)	38 (3.9%)	29 (4.1%)	73 (12.1%)	50 (6.2%)	32 (6.9%)	<0.001
Peripheral arterial disease (N/%)	61 (6.1%)	35 (4.9%)	20 (3.3%)	32 (4.0%)	19 (4.1%)	0.075
Chronic kidney disease (N/%)	39 (4.7%)	41 (6.5%)	33 (5.5%)	63 (7.9%)	29 (6.3%)	0.109
Cancer (N/%)	57 (6.9%)	28 (4.5%)	32 (5.3%)	35 (4.4%)	25 (5.0%)	0.162
Chronic obstructive pulmonary disease (N/%)	43 (4.3%)	39 (5.5%)	37 (6.1%)	28 (3.5%)	29 (6.3%)	0.072
Dementia (N/%)	17 (2.2%)	12 (2.2%)	11 (1.8%)	12 (1.5%)	7 (1.5%)	0.803
Previous bleeding (N/%)	23 (2.4%)	9 (1.4%)	6 (1.0%)	16 (2.0%)	8 (1.8%)	0.290
Chest pain (N/%)	932 (91.4%)	713 (93.4%)	550 (93.4%)	695 (92.5%)	462 (94.5%)	0.198
Hospital transport Cath lab (N/%)	155 (14.7%)	130 (16.5%)	115 (17.1%)	211 (22.8%)	111 (19.1%)	<0.001
Emergency room (N/%)	605 (57.4%)	443 (56.3%)	393 (58.3%)	542 (58.5%)	310 (53.4%)	0.316
ST-elevation myocardial infarction (N/%)	558 (50.5%)	479 (55.0%)	366 (52.5%)	511 (53.7%)	331 (51.6%)	0.311
Non-ST-elevation myocardial infarction (N/%)	521 (47.1%)	377 (43.3%)	310 (44.5%)	415 (43.6%)	296 (46.1%)	0.383
Killip-Kimball class >I	156 (15.7%)	101 (14.4%)	100 (16.9%)	133 (16.9%)	72 (15.5%)	0.679

Multivessel disease (N/%)	337 (44.0%)	211 (35.9%)	165 (34.0%)	192 (34.5%)	181 (38.4%)	<0.001
Pre-hospital emergency medical service (N/%)	146 (19.6%)	139 (21.9%)	186 (31.4%)	253 (30.7%)	176 (35.1%)	<0.001
Transfer to another hospital (N/%)	271 (25.7%)	189 (24.0%)	155 (23.0%)	143 (15.4%)	152 (26.2%)	<0.001
Non-percutaneous coronary intervention capable hospital (N/%)	393 (37.7%)	277 (36.1%)	178 (26.6%)	242 (26.7%)	183 (31.7%)	<0.001
Time from the onset of symptoms to first medical contact (min) (median, IQR)	152 (80, 324)	185 (96, 396)	173 (96, 328)	188 (92, 409)	171 (93, 352)	0.008
Time from the first medical contact to hospital admission (min) (median, IQR)	153 (53, 394)	147 (63, 384)	159 (60, 400)	152 (60, 381)	175 (60, 388)	0.937
Time from the onset of symptoms to reperfusion (min) (median, IQR)	261 (163, 390)	280 (197, 475)	300 (198, 450)	251 (180, 374)	285 (210, 443)	0.067
Time from the first medical contact to reperfusion (min) (median, IQR)	105 (61, 175)	122 (67, 189)	115 (40, 200)	105 (60, 168)	106 (57, 172)	0.657
Time from door to reperfusion (min) (median, IQR)	66 (27, 156)	47 (17, 145)	51 (22, 133)	64 (30, 117)	60 (30, 160)	0.103
Left ventricular ejection function (%)	51 ± 11	52 ± 12	51 ± 11	50 ± 10	51 ± 10	0.188
Angiography performance (N/%)	946 (85.6%)	715 (84.0%)	537 (78.9%)	573 (60.3%)	494 (77.1%)	<0.001
Radial access (N/%)	595 (73.9%)	379 (75.5%)	295 (87.5%)	880 (92.5%)	570 (88.9%)	<0.001
Percutaneous coronary intervention (N/%)	756 (68.9%)	573 (67.7%)	426 (62.8%)	485 (51.2%)	430 (67.3%)	<0.001
Coronary artery bypass grafting (N/%)	56 (7.1%)	40 (7.8%)	30 (9.0%)	25 (7.6%)	14 (4.3%)	0.205
MACE Mortality (N/%)	44 (4.0%)	31 (4.1%)	28 (4.2%)	39 (4.1%)	27 (4.3%)	0.998
Reinfarction (N/%)	7 (0.7%)	4 (0.6%)	6 (1.1%)	5 (0.5%)	1 (0.2%)	0.556
Heart failure (N/%)	171 (17.8%)	79 (12.2%)	64 (11.4%)	80 (8.4%)	57 (9.0%)	<0.001
	48 (4.6%)	33 (4.1%)	30 (4.8%)	26 (2.8%)	14 (2.2%)	0.028

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Cardiogenic shock (N/%)	39 (4.1%)	22 (3.4%)	19 (3.4%)	40 (4.2%)	37 (5.8%)	0.281
New onset atrial fibrillation (N/%)	3 (0.3%)	4 (0.6%)	4 (0.7%)	2 (0.2%)	0 (0.0%)	0.287
Mechanical complication (N/%)	20 (2.1%)	18 (2.8%)	7 (1.2%)	13 (1.4%)	22 (3.5%)	0.035
Complete atrioventricular block (N/%)	15 (1.6%)	11 (1.7%)	5 (0.9%)	4 (0.4%)	12 (1.9%)	0.058
Sustained ventricular tachycardia (N/%)	30 (3.1%)	17 (2.6%)	18 (3.2%)	27 (2.9%)	25 (4.0%)	0.782
Cardiac arrest (N/%)	5 (0.5%)	4 (0.6%)	2 (0.4%)	6 (0.6%)	4 (0.8%)	0.890
Stroke (N/%)	6 (0.6%)	2 (0.3%)	1 (0.2%)	4 (0.4%)	8 (1.3%)	0.112
Major haemorrhagic events (N/%)						

Table 2: Demographic characteristics and clinical presentation characteristics of the patients admitted for acute coronary syndrome between the first wave of SARS-CoV-19 (March to June 2020) and the second and third waves of SARS-CoV-19 infection (November and December 2020 and January and February 2021). IQR – interquartile range, MACE – major adverse cardiac events.
*** Some variables had missing information regarding the second and third waves, and because of this reason some of relative frequencies calculations did not included all the patients.

	First wave (N=642)	Second and third waves (N=612)	*p*-value
Age (years)	65 ± 13	66 ± 13	0.527
Sex (male) (N/%)	499 (77.7%)	444 (72.5%)	0.034
Smoking (N%)	189 (37.1%)	179 (40.9%)	0.240
Arterial hypertension (N/%)	396 (65.3%)	374 (67.5%)	0.436
Diabetes mellitus (N/%)	160 (26.4%)	169 (32.3%)	0.032
Dyslipidaemia (N/%)	318 (52.6%)	305 (55.3%)	0.359
Familiar cardiovascular history (N/%)	26 (4.5%)	29 (5.4%)	0.508
Angina (N/%)	100 (21.6%)	62 (18.0%)	0.210
Previous ACS (N/%)	87 (18.8%)	59 (17.2%)	0.540
Valvular heart disease (N/%)	13 (2.8%)	4 (1.2%)	0.108
Previous heart failure (N/%)	32 (6.9%)	22 (6.4%)	0.772
Peripheral arterial disease (N/%)	19 (4.1%)	18 (5.0%)	0.448
Chronic kidney disease (N/%)	29 (6.3%)	20 (5.9%)	0.816
Cancer (N/%)	25 (5.0%)	12 (3.5%)	0.316
Chronic obstructive pulmonary disease (N/%)	29 (6.3%)	24 (7.1%)	0.657
Dementia (N/%)	7 (1.5%)	2 (0.6%)	0.315
Previous bleeding (N/%)	8 (1.8%)	5 (1.5%)	0.762
Chest pain (N/%)	462 (94.5%)	349 (90.6%)	0.030
Hospital transport			
Cath lab (N/%)	111 (19.1%)	75 (16.1%)	0.211
Emergency room (N/%)	310 (53.4%)	289 (62.2%)	0.004
ST-elevation myocardial infarction (N/%)	331 (51.6%)	328 (53.6%)	0.470

Non-ST-elevation myocardial infarction (N/%)	296 (46.1%)	270 (44.1%)	0.479
Killip-Kimball class >I	72 (15.5%)	53 (15.2%)	0.931
Multivessel disease (N/%)	181 (38.4%)	140 (33.7%)	0.150
Transfer to another hospital (N/%)	152 (26.2%)	91 (19.6%)	0.012
Non-percutaneous coronary intervention capable hospital (N/%)	183 (31.7%)	146 (31.8%)	0.960
Time from the onset of symptoms to first medical contact (min) (median, IQR)	171 (93, 352)	149 (81, 361)	0.190
Time from the first medical contact to hospital admission (min) (median, IQR)	175 (60, 388)	193 (64, 484)	0.346
Time from the onset of symptoms to reperfusion (min) (median, IQR)	285 (210, 443)	295 (191, 415)	0.634
Time from the first medical contact to reperfusion (min) (median, IQR)	106 (57, 172)	139 (74, 205)	0.112
Time from door to reperfusion (min) (median, IQR)	60 (30, 160)	66 (23, 150)	0.766
Left ventricular ejection function (%)	51 ± 10	51 ± 12	0.586
Angiography performance (N/%)	494 (77.1%)	433 (71.2%)	0.018
Radial access (N/%)	570 (88.9%)	227 (94.6%)	0.014
Percutaneous coronary intervention (N/%)	430 (67.3%)	347 (57.0%)	<0.001
Coronary artery bypass grafting (N/%)	14 (4.3%)	19 (7.7%)	0.090
MACE			
Mortality (N/%)	27 (4.3%)	21 (3.7%)	0.644
Reinfarction (N/%)	1 (0.2%)	2 (0.5%)	0.591
Heart failure (N/%)	57 (9.0%)	45 (11.5%)	0.224
Cardiogenic shock (N/%)	14 (2.2%)	16 (3.1%)	0.351
New onset atrial fibrillation (N/%)	37 (5.8%)	15 (4.0%)	0.220
Mechanical complication (N/%)	0 (0.0%)	0 (0.0%)	Not available
Complete atrioventricular block (N/%)	22 (3.5%)	15 (3.8%)	0.830
Sustained ventricular tachycardia (N/%)	12 (1.9%)	4 (1.0%)	0.298
Cardiac arrest (N/%)	25 (4.0%)	11 (2.8%)	0.346
Stroke (N/%)	4 (0.8%)	4 (1.0%)	1.000
Major haemorrhagic events (N/%)	8 (1.3%)	2 (0.5%)	0.303

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