

Supplementary Table S1. List of medicines used in the COVID-19 treatment according to Spanish guidelines [11,12].

Medicines Type	ATC Code	Medicine	Medicines Type	ATC Code	Medicine
Antibiotics	J01DD01	Cefotaxime	Anti SIRS Drugs	L01XE18	Ruxolitinib
	J01DD04	Ceftriaxone		L03AB05	Interferon alpha 2b
	J01DD16	Cefditoren		L03AB08	Interferon beta 1b
	J01DI02	Ceftaroline		L04AA37	Baricitinib
	J01FA09	Clarithromycin		L04AC03	Anakinra
	J01FA10	Azithromycin		L04AC07	Tocilizumab
	J01MA12	Levofloxacin		L04AC11	Siltuximab
	J01MA14	Moxifloxacin		L04AC14	Sarilumab
Antimalarials	J01XA02	Teicoplanine	Antivirals	J05AR10	Lopinavir and Ritonavir
	P01BA01	Chloroquine		J05AX95*	Remdesivir
	P01BA02	Hidroxychloroquine	Steroids	H02AB04	Methylprednisolone
				H02AB07	Prednisone

*Provisional ATC Code

Abbreviations: SIRS, systemic inflammatory response syndrome

Supplementary Table S2. Treatment and clinical outcomes evolution of in-hospital COVID-19 patients with acute respiratory distress syndrome in Castile and Leon (Spain) (March 1st - May 31st, 2020).

	N	1-14 March 26	15-31 March 529	1-14 April 265	15-30 April 123	1-14 May 56	15-31 May 26
Antibiotics		80.77 (65.62-95.92)	89.41 (86.79-92.04)	89.81 (86.17-93.45)	89.43 (84-94.86)	89.29 (81.18-97.39)	88.46 (76.18-100.74)
Ceftriaxone		46.15 (26.99-65.32)	67.67 (63.69-71.66)	68.3 (62.7-73.9)	65.04 (56.61-73.47)	78.57 (67.82-89.32)	65.38 (47.1-83.67)
Azithromycin		26.92 (9.87-43.97)	65.6 (61.55-69.64)	70.57 (65.08-76.05)	66.67 (58.34-75)	60.71 (47.92-73.51)	50 (30.78-69.22)
Lovofloxacin		50 (30.78-69.22)	23.06 (19.47-26.65)	18.87 (14.16-23.58)	21.95 (14.64-29.27)	17.86 (7.83-27.89)	26.92 (9.87-43.97)
Cefditoren		-	5.48 (3.54-7.42)	3.77 (1.48-6.07)	4.88 (1.07-8.68)	3.57 (0.29-5.43)	3.85 (0.55-8.24)
Clarithromycin		3.85 (0.55-8.24)	0.57 (0.07-1.03)	0.38 (0.06-0.94)	1.63 (0.61-2.86)	1.79 (0.68-3.25)	-
Teicoplanin		3.85 (0.55-8.24)	1.13 (0.23-2.04)	2.26 (0.47-4.06)	-	-	-
Cefotaxime		-	0.19 (0.08-0.36)	0.38 (0.06-0.94)	-	-	-
Moxifloxacin		-	-	0.75 (0.29-1.62)	-	-	-
Ceftaroline		-	-	-	-	-	-
Antimalarials		57.69 (38.7-76.68)	76.94 (73.35-80.53)	70.19 (64.68-75.7)	56.91 (48.16-65.66)	28.57 (16.74-40.4)	15.38 (1.52-29.25)
Hydroxychloroquine		46.15 (26.99-65.32)	70.7 (66.82-74.58)	68.3 (62.7-73.9)	56.1 (47.33-64.87)	26.79 (15.19-38.38)	11.54 (0.74-22.82)
Chloroquine		11.54 (0.74-22.82)	8.13 (5.8-10.46)	1.89 (0.25-3.52)	0.81 (0.07-2.24)	1.79 (0.68-3.25)	3.85 (0.55-8.24)
Steroids		50 (30.78-69.22)	49.15 (44.89-53.41)	63.77 (57.99-69.56)	65.85 (57.47-74.23)	64.29 (51.74-76.84)	53.85 (34.68-73.01)
Methylprednisolone		46.15 (26.99-65.32)	47.64 (43.38-51.89)	61.51 (55.65-67.37)	63.41 (54.9-71.93)	64.29 (51.74-76.84)	50 (30.78-69.22)
Prednisone		11.54 (0.74-22.82)	10.02 (7.46-12.58)	12.45 (8.48-16.43)	13.01 (7.06-18.95)	5.36 (0.54-10.25)	11.54 (0.74-22.82)
Antivirals		53.85 (34.68-73.01)	58.03 (53.83-62.24)	38.49 (32.63-44.35)	15.45 (9.06-21.83)	5.36 (0.54-10.25)	3.85 (0.55-8.24)
Lopinavir-Ritonavir		53.85 (34.68-73.01)	58.03 (53.83-62.24)	38.11 (32.27-43.96)	15.45 (9.06-21.83)	5.36 (0.54-10.25)	3.85 (0.55-8.24)
Remdesevir		0 (0-0)	0.38 (0.14-0.76)	0.38 (0.06-0.94)	-	-	-
Tocilizumab		19.23 (4.08-34.38)	20.6 (17.16-24.05)	20.75 (15.87-25.64)	11.38 (5.77-16.99)	-	3.85 (0.55-8.24)
Other Anti-SIRS		19.23 (4.08-34.38)	15.12 (12.07-18.18)	10.94 (7.18-14.7)	5.69 (1.6-9.79)	-	3.85 (0.55-8.24)
Interferon Beta		19.23 (4.08-34.38)	13.61 (10.69-16.53)	5.28 (2.59-7.98)	-	-	3.85 (0.55-8.24)
Anakinra		-	1.51 (0.47-2.55)	4.53 (2.02-7.03)	4.07 (0.58-7.55)	-	3.85 (0.55-8.24)
Baricitinib		-	0.19 (0.08-0.36)	1.13 (0.14-2.16)	1.63 (0.61-2.86)	-	-
Ruxolitinib		-	0.19 (0.08-0.36)	0.19 (0.08-0.36)	-	-	-
Hospital LoS (median + IQR)		18.5 (8-42)	11 (6-21)	12 (5-19)	10 (6-16)	8 (5-13.5)	5.5 (4-10)
ICU LoS (median + IQR)		23	15.50(9-26)	13 (8-22)	18 (8-22)	5.5 (1-10)	-
	N=1		N=71	N=19	N=4	N=4	N=0
Death (% 95 CI)		76.92 (60.73-93.12)	48.58 (44.32-52.84)	38.49 (32.63-44.35)	30.08 (21.98-38.19)	26.79 (15.19-38.38)	19.23 (4.08-34.38)
AKI (% 95 CI)		3.85 (0.55-8.24)	18.34 (15.04-21.63)	20.38 (15.53-25.23)	19.51 (12.51-26.52)	19.64 (9.24-30.05)	19.23 (4.08-34.38)
Fungal superinfection (% 95 CI)		15.38 (1.52-29.25)	5.48 (3.54-7.42)	3.77 (1.48-6.07)	8.94 (3.9-13.99)	1.79 (0.68-3.25)	-
Bacterial superinfection (% 95 CI)		3.85 (0.55-8.24)	3.21 (1.71-4.72)	6.04 (3.17-8.91)	2.44 (0.29-4.17)	10.71 (2.61-18.82)	7.69 (2.55-13.93)
SIRS (% 95 CI)		3.85 (0.55-8.24)	2.84 (1.42-4.25)	5.66 (2.88-8.44)	3.25 (0.12-6.39)	5.36 (0.54-10.25)	7.69 (2.55-13.93)
Carodiomyopathy (% 95 CI)		-	1.51 (0.47-2.55)	1.13 (0.14-2.16)	4.88 (1.07-8.68)	1.79 (0.68-3.25)	3.85 (0.55-8.24)
DIC (% 95 CI)		-	0.57 (0.07-1.03)	0.75 (0.29-1.62)	-	1.79 (0.68-3.25)	3.85 (0.55-8.24)

Abbreviations: 95 CI, confidence interval, LoS, length of stay, ICU, intensive care unit, AKI, acute kidney injury, SIRS, systemic inflammatory response syndrome, DIC, disseminated intravascular coagulation.