

Table 1 - Quantitative

variables	Corticoid	n	Mean ± standard deviation	Median (IQR)	Mann & Whitney p	Student's t test p
Age (years)	Dexa	194	50.8 ± 12.8	51 (42 - 57)	---	0.309
	Methyl	131	49.3 ± 12.8	47 (40 - 57)		
VG D0	Dexa	194	40.0 ± 5.3	40.6 (36.8 - 43.7)	---	0.029
	Methyl	131	41.2 ± 4.3	41.7 (38.7 - 44.2)		
Hb DI	Dexa	194	13.7 ± 1.8	13.9 (12.5 - 15)	---	0.051
	Methyl	131	14.1 ± 1.5	14.4 (13.3 - 15)		
Leuc DI	Dexa	194	9445 ± 4298	8850 (6500 - 12000)	0.015	---
	Methyl	131	11147 ± 7024	10100 (7000 - 13800)		
Bast DI	Dexa	194	7.9 ± 3.7	7 (5 - 11)	0.029	---
	Methyl	131	8.7 ± 3.4	8 (6 - 11)		
PCR DI	Dexa	194	95.8 ± 67.2	93.2 (32.9 - 137.3)	0.729	---
	Methyl	131	97.9 ± 66.1	93.4 (45.2 - 139.2)		
VG DF	Dexa	194	39.8 ± 5.5	40.3 (36.7 - 43.5)	---	0.008
	Methyl	131	41.3 ± 4.4	41.5 (38.7 - 44.1)		
Hb DF	Dexa	194	13.5 ± 1.7	13.8 (12.4 - 14.8)	---	0.013
	Methyl	131	14.0 ± 1.5	14 (13 - 15)		
Leuc DF	Dexa	194	9129 ± 3831	8300 (6500 - 11000)	0.405	---
	Methyl	131	9235 ± 3323	8700 (6800 - 11600)		
Bast DF	Dexa	194	7.1 ± 3.2	6 (5 - 10)	0.149	---
	Methyl	131	7.6 ± 3.1	7 (5 - 9)		
PCR DF	Dexa	194	52.6 ± 53.0	29.8 (15.1 - 80)	0.451	---
	Methyl	131	51.1 ± 57.3	26.3 (11.5 - 72.7)		

Legend. IIQ: interquartile range (Quartile 1 – Quartile 3). DI: date of admission. DF: end date. GV: packed cell volume. Hb: hemoglobin. Leuc: leukocytes. Bast: rods. CRP: C-Reactive Protein. Dexa: dexamethasone. Methyl: methylprednisolone.

* Non-parametric Mann-Whitney test, used to analyze Leuc, Bast and PCR variables.

** Student's t test for independent samples, used to analyze the variables Age, VG and Hb.

Table 2 - Categorical

variables	Variable	Classification	Dexamethasone	Methylprednisolone	p*
Gender	Female		83 (42.8%)	53 (40.5%)	0.731
	Male		111 (57.2%)	78 (59.5%)	
DM	No		184 (94.8%)	120 (91.6%)	0.258
	Yes		10 (5.2%)	11 (8.4%)	
Smoking	No		191 (98.5%)	130 (99.2%)	0.651
	Yes		3 (1.5%)	1 (0.8%)	
SAH	No		161 (83%)	111 (84.7%)	0.760
	Yes		33 (17%)	20 (15.3%)	
COPD	No		191 (98.5%)	127 (96.9%)	0.446
	Yes		3 (1.5%)	4 (3.1%)	

Caption. DM: diabetes mellitus. SAH: systemic arterial hypertension. COPD: chronic obstructive pulmonary disease.

* Fischer's exact test.

Table 3 - Assessment of the association between the type of corticosteroid and death within 28 days

Variable	Classification	n total	Death within 28 days		OR (95%CI)
			No	Yes	
Age (years)	(mean ± SD)		49.7 ± 12.7	56.3 ± 13.4	1.04 (1.01 - 1.07)
Gender	(ref)	136	127 (93.4%)	9 (6.6%)	
	Male	189	175 (92.6%)	14 (7.4 %)	1.13 (0.47 - 2.69)
DM	No (ref)	304	281 (92.4%)	23 (7.6%)	
	Yes	21	21 (100%)	0 (0%)	-
Tab	No (ref)	321	298 (92.8%)	23 (7.2%)	
	Yes	4	4 (100%)	0 (0%)	-
SAH	No (ref)	272	251 (92.3%)	21 (7.7%)	
	Yes	53	51 (96.2%)	2 (3.8%)	0.47 (0.11 - 2.06)
COPD	No (ref)	318	296 (93.1%)	22 (6.9%)	
	Yes	7	6 (85.7%)	1 (14.3%)	2.24 (0.26 - 19.5)
VG DI	(mean ± SD)		40.5 ± 4.9	39.6 ± 5.9	0.97 (0.89 - 1.04)
Hb DI	(mean ± SD)		13.9 ± 1.6	13.4 ± 2.3	0.87 (0.69 - 1.09)
Leuc DI	(median, IQ)		9600 (6700 - 12400)	8200 (6100 - 14700)	1.01 (0.95 - 1.08)*
Bast DI	(median, IQ)		7 (5 - 11)	7 (6 - 12)	1.04 (0.93 - 1.17)
PCR DI	(median, IQR)		91.6 (35.8 - 136)	125.1 (61.2 - 153)	1.004 (0.998 - 1.010)
VG FD	(mean ± SD)		40.5 ± 5.2	38.7 ± 5.1	0.94 (0.88 - 1.01)
Hb DF	(mean ± SD)		13.8 ± 1.6	13 ± 1.8	0.77 (0.61 - 0.99)
Leuc DF	(median, IIQ)		8600 (6700 - 11100)	8700 (6400 - 14000)	1.06 (0.96 - 1.18)*
Bast DF	(median, IIQ)		7 (5 - 10)	8 (5 - 9)	1, 00 (0.87 - 1.14)
PCR DF	(median, IQR)		26.2 (12.4 - 71.7)	133.4 (50 - 185)	1.017 (1.010 - 1.023)
Corticoid	Dexa (ref)	194	178 (91.8%)	16 (8.2%)	
	Methyl	131	124 (94.7%)	7 (5.3%)	0.63 (0.25 - 1.57)

Legend. IIQ: interquartile range (Quartile 1 – Quartile 3). DM: diabetes mellitus. SAH: systemic arterial hypertension. COPD: chronic obstructive pulmonary disease. DI: date of admission. DF: end date. GV: packed cell volume. Hb: hemoglobin. Leuc: leukocytes. Bast: rods. CRP: C-Reactive Protein. Dexa: dexamethasone. Methyl: methylprednisolone.

* OR corresponding to every 1000 more leukocyte units.

Table 4 - Assessment of the association between the type of corticosteroid and the need for ICU

Variable	Classif	n total	Need for ICU		OR (95%CI)
			No	Yes	
Age (years)	(mean ± SD)		50.2 ± 13.0	50.0 ± 9.7	0.99 (0.97 - 1.03)
Gender	(ref)	136	125 (91.9%)	11 (8.1%)	0.91 (0.40 - 2.07)
	Male	189	175 (92.6%)	14 (7.4%)	
DM	No (ref)	304	281 (92.4%)	23 (7.6%)	1.29 (0.28 - 5.87)
	Yes	21	19 (90.5%)	2 (9.5%)	
Tab	No (ref)	321	296 (92.2%)	25 (7.8%)	-
	Yes	4	4 (100%)	0 (0%)	
SAH	No (ref)	272	251 (92.3%)	21 (7.7%)	0.98 (0.32 - 2.97)
	Yes	53	49 (92.5%)	4 (7.5%)	
COPD	No (ref)	318	293 (92.1%)	25 (7.9%)	-
	Yes	7	7 (100%)	0 (0%)	
VG DI	(mean ± SD)		40.4 ± 4.9	40.9 ± 5.6	1.02 (0.94 - 1.12)
Hb DI	(mean ± SD)		13.8 ± 1.6	13.9 ± 2.1	1.04 (0.81 - 1.33)
Leuc DI	(median, IQ)		9350 (6700 - 12400)	10400 (7200 - 14200)	1.03 (0.98 - 1.09)*
Bast DI	(median, IQ)		7 (5 - 11)	8 (7 - 10)	1.06 (0.95 - 1.18)
PCR DI	(median, IQR)		90.7 (34.5 - 135.6)	125.1 (85 - 153.8)	1.006 (1.001 - 1.012)
VG FD	(mean ± SD)		40.5 ± 5.2	39± 4.6	0.96 (0.89 - 1.03)
Hb DF	(mean ± SD)		13.8 ± 1.7	13.2 ± 1.7	0.84 (0.66 - 1.06)
Leuc DF	(median, IQ)		8550 (6600 - 11100)	8800 (7500 - 11400)	1.08 (0.98 - 1.19)*
Bast DF	(median, IQ)		7 (5 - 10)	6 (5 - 8)	0.93 (0.81 - 1.06)
PCR DF	(median, IQ)		25.9 (12.4 - 71.2)	101.3 (68.4 - 163.6)	1.016 (1.010 - 1.023)
Corticoid	Dexa (ref)	194	178 (91.8%)	16 (8.2%)	0.82 (0.35 - 1.92)
	Methyl	131	122 (93.1%)	9 (6.9%)	

Legend . IIQ: interquartile range (Quartile 1 – Quartile 3). DM: diabetes mellitus. SAH: systemic arterial hypertension. COPD: chronic obstructive pulmonary disease. DI: date of admission. DF: end date. GV: packed cell volume. Hb: hemoglobin. Leuc: leukocytes. Bast: rods. CRP: C-Reactive Protein. Dexa: dexamethasone. Methyl: methylprednisolone.

* OR corresponding to every 1000 more leukocyte units.

Table 5 - Assessment of the association between the type of corticosteroid and the need for MV

Variable	Classif	n total	Need for MV		p*	OR (95%CI)
			No	Yes		
Age (years)	(mean ± SD)		50.1 ± 12.9	51, 5 ± 8.2	0.767	1.01 (0.96 - 1.06)
Gender	(ref)	136	133 (97.8%)	3 (2.2%)	0.801	1.20 (0.28 - 5.13)
	Male	189	184 (97.4%)	5 (2%)		
DM	No (ref)	304	296 (97.4%)	8 (2.6%)	1**	-
	Yes	21	21 (100%)	0 (0%)		
Tab	No (ref)	321	313 (97.5%)	8 (2.5%)	1**	-
	Yes	4	4 (100%)	0 (0%)		
SAH	No (ref)	272	264 (97.1%)	8 (2.9%)	0.362*	-
	Yes	53	53 (100%)	0 (0%)		
COPD	No (ref)	318	310 (97.5%)	8 (2.5%)	1**	
	Yes	7	7 (100%)	0 (0%)		
VG D0	(mean ± SD)		40.5 ± 4.9	38.3 ± 7.3	0.204	0.93 (0.83 - 1.04)
Hb D0	(mean ± SD)		13.9 ± 1.6	13 ± 2.9	0.149	0.77 (0.54 - 1.10)
Leuc D0	(median, IQ)		9400 (6700 - 12400)	10450 (6300 - 13200)	0.850	1.01 (0.91 - 1.13)***
Bast D0	(median, IQR)		7 (5 - 11)	10 (9 - 13)	0.049	1.20 (1.00 - 1.43)
PCR D0	(median, IQR)		93.2 (37.5 - 135.8)	124.6 (82.3 - 162)	0.205	1.006 (0.997 - 1.016)
VG D4	(mean ± D P)		40.5 ± 5.1	36.1 ± 4.4	0.026	0.90 (0.82 - 0.99)
Hb D4	(mean ± SD)		13.7 ± 1.6	12.3 ± 1.7	0.020	0.63 (0.43 - 0.93)
Leuc D4	(median, IQ)		8600 (6700 - 11200)	8150 (3950 - 9400)	0.185	0.84 (0.65 - 1.09)***
Bast D4	(median, IQ)		7 (5 - 10)	8 (6 - 9)	0.765	1.03 (0.83 - 1.28)
D4 PCR	(median, IQ)		27.8 (12.7 - 73)	135.9 (69.9 - 222)	<0.001	1.018 (1.009 - 1.027)
Corticoid	Dexa (ref)	194	188 (96.9%)	6 (3.1%)	0.381	0.49 (0.10 - 2.44)
	Methyl	131	129 (98.5%)	2 (1.5%)		

Legend. IIQ: interquartile range (Quartile 1 – Quartile 3). DM: diabetes mellitus. SAH: systemic arterial hypertension. COPD: chronic obstructive pulmonary disease. DI: date of admission. DF: end date. GV: packed cell volume. Hb: hemoglobin. Leuc: leukocytes. Bast: rods. CRP: C-Reactive Protein. Dexa: dexamethasone. Methyl: methylprednisolone.

* Wald logistic regression model.

** Fischer's exact test.

*** OR corresponding to each 1000 more leukocyte units.

Table 6 - Deaths in 28 days in patients who required ICU or MV.

Variable	Classif	n total	Death in 28 days		p*
			No	Yes	
Need for ICU	No (ref)	300	293 (97.7%)	7 (2.3%)	<0.001
	Yes	25	9 (36%)	16 (64%)	
MV	No (ref)	317	301 (95%)	16 (5%)	<0.001
	Yes	8	1 (12.5%)	7 (87.5%)	

* Logistic Regression Model and Wald test, p<0.05

Table 7 - ICU time considering the cases that required ICU

Variable	n	Mean \pm standard deviation	Median (IQR)
ICU time (days)	25	22.0 \pm 18.5	18 (9 – 31.5)

IQR: interquartile range

Table 8 - Assessment of the association between quantitative variables and ICU time

Variables	n	Spearman correlation coefficient	P
ICU time x Age	25	-0.11	0.598
ICU time x VG DI	25	-0.19	0.356
ICU time x Hb DI	25	- 0.20	0.337
ICU time x Leuc DI	25	-0.15	0.470
ICU time x Bast DI	25	-0.27	0.196
ICU time x PCR DI	25	-0.32	0.124
ICU time x VG DF	25	-0, 20	0.330
ICU time x Hb DF	25	-0.28	0.174
ICU time x Leuc DF	25	0.09	0.651
ICU time x Bast DF	25	-0.21	0.314
ICU time x PCR DF	25	0.09	0.679

Legend The. DI: date of admission. DF: end date. GV: packed cell volume. Hb: hemoglobin. Leuk: leukocytes. Bast: rods. CRP: C-Reactive Protein.

Spearman's correlation coefficient is a measure of association between two quantitative variables and ranges from -1 to +1. A positive coefficient indicates a direct correlation between the variables. Negative coefficients indicate an inverse correlation. Correlation coefficients close to zero indicate a weak association and coefficients closer to -1 or +1 indicate a strong association between the two variables.