

SUPPLEMENTAL MATERIAL

European Multicenter Study of Endovascular Thrombectomy in COVID-19 patients (ET-COVID-19)

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Supplemental Material

Supplemental Table I. Diagnosis and symptoms of COVID-19 infection

	N	Values
Symptoms at the arrival		
Asymptomatic	93	32 (34.4)
Fever	93	31 (33.3)
Body temperature (degree Celsius) (median, IQR)	93	38 (37.8-38.6)
Dry Cough	93	40 (43)
Dyspnea	93	31 (33.3)
Diagnostic modality		
RT-PCR confirmed diagnosis	93	93 (100)
Diagnosis confirmed at the first RT-PCR	93	75 (80.6)
Diagnosis confirmed at the second PCR (first RT-PCR negative)	93	18 (19.3)
Chest CT features		
No lesions	93	9 (9.7)
Typical COVID-19 lesions (ground-glass opacities)	93	70 (75.3)
Other chest CT lesions	93	14 (15)

RT-PCR = Reverse transcription polymerase chain reaction

Supplemental Table II. Biological data of COVID-19 patients who underwent MT (recorded within 48 hours from admission)

	N	Values
Biological data (within 48 hours from admission) [normal values]		
Red blood cell count, $10^{12}/L$, mean $\pm$ SD [$4.2-5.9 \times 10^{12}$ cells/L]	88	4.4 $\pm$ 0.7
White blood cell count, $10^9/L$ [$4.0-10 \times 10^9/L$]	92	9.0 (6.9 to 12.2)
Platelet count, $10^9/L$, mean $\pm$ SD [$150-350 \times 10^9/L$]	91	279 $\pm$ 115
Hemoglobin, g/dL, mean $\pm$ SD	91	12.9 $\pm$ 1.6
Male	61	13 $\pm$ 1.7
Female	30	12.4 $\pm$ 1.1
[Male 14-18 g/dL; Female 12-16 g/dL]		
Hematocrit, %, mean $\pm$ SD	88	38.8 $\pm$ 5.1
Male	58	38.5 $\pm$ 7.2
Female	30	37.8 $\pm$ 5
[Male: 41%-51%; Female: 36%-47%]		
Neutrophil count, $/mm^3$ [$1500 - 8000 / mm^3$]	86	7115 (4962 to 9200)
Lymphocyte count, $/mm^3$ [$1000 - 4000 / mm^3$]	86	1180 (800 to 1900)
Potassium, mmol/L, mean $\pm$ SD [$3.5-5.0$ mmol/L]	88	4.0 $\pm$ 0.5
Sodium, mmol/L, mean $\pm$ SD [$136-145$ mmol/L]	90	139 $\pm$ 4
Creatinine, $\mu mol/L$ [$61.9-115 \mu mol/L$]	90	74 (61 to 96)
Lactate dehydrogenase, IU/L [$60-100$ IU/L]	45	347 (224 to 450)
Alaine, IU/L [$0-35$ IU/L]	60	31 (20 to 50)
Aspartate, IU/L [$0-35$ IU/L]	57	30 (23 to 52)
C reactive protein, mg/L (<10mg/L)	82	15.4 (4 to 40)
D-dimer, ng/mL (<250ng/mL)	57	2440 (920 to 5250)
Prothrombin time, seconds, mean $\pm$ SD (11 – 13 seconds)	34	13.7 $\pm$ 2.1
Activated partial thromboplastin time, seconds, mean $\pm$ SD [25-35 seconds]	49	30.6 $\pm$ 5.3
Fibrinogen, g/L, mean $\pm$ SD [$1.5-3.5$ g/L]	72	4.0 $\pm$ 2.2

Values are number (%) or median (IQR) unless otherwise as indicated.

IU=International Units; SD= Standard Deviation ;

Supplemental Table III. Treatment and intraprocedural physical examination characteristics of the COVID-19 patients treated by thrombectomy (N=93)

	N	Values
Treatment characteristics		
Imaging modality	93	
CT		65 (69.9)
MRI		28 (30.1)
Intravenous thrombolysis prior thrombectomy	93	36 (38.7)
General anesthesia	93	37 (39.8)
Thrombectomy strategy	93	
Contact Aspiration		34 (36.6)
Stent retriever		7 (7.5)
SOLUMBRA		47 (50.5)
Intraoperative recanalization before MT		4 (4.3)
Failed catheterization		1 (1.1)
Symptom onset to groin puncture, minutes	85	240 (180 to 330)
Symptom onset to successful recanalization	74	295 (242 to 392)
Symptom onset to imaging	84	136 (91 to 190)
Imaging to groin puncture	84	108 (61 to 140)
Physical Examination during thrombectomy (average values)		
Heart rate (mean, SD)	66	84.4 ± 21.5
Respiratory rate (median, IQR)	36	21.5 ± 12.9
Systolic BP, mmHg (mean, SD)	74	117 ± 35
Diastolic BP, mmHg (mean, SD)	61	80 ± 13
Mean arterial BP, mmHg (mean, SD)	77	115 ± 28
Glycemia, mg/dl (median, IQR)	77	119 (104 to 162)

Values are number (%) or median (IQR) unless otherwise as indicated. Abbreviations: BP=blood pressure; CT=computed tomography, MRI=magnetic resonance imaging; IQR=interquartile range, SD=standard deviation

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