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Supplementary appendix

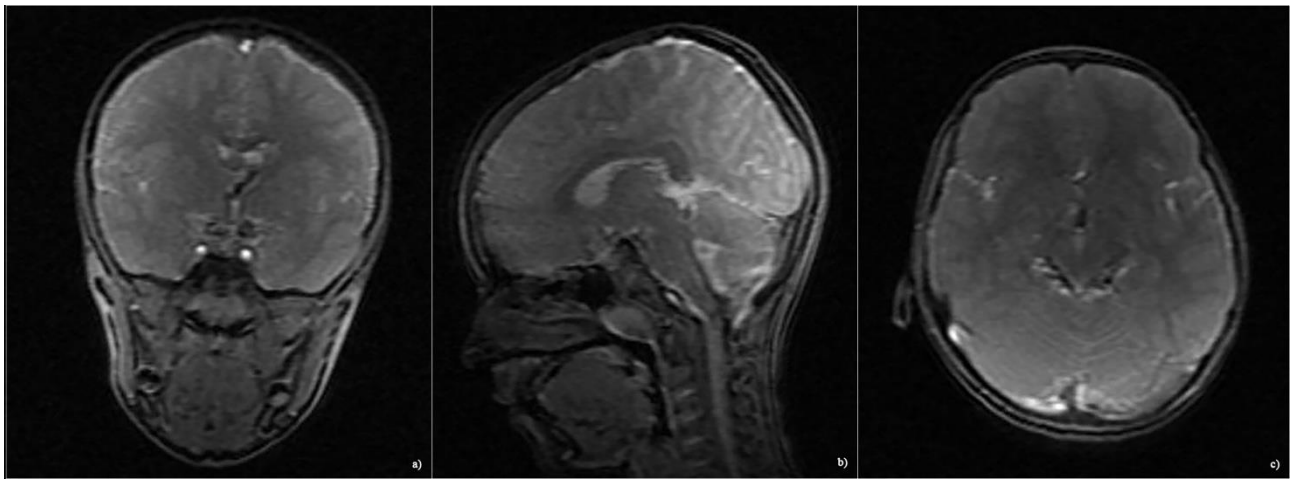
This appendix formed part of the original submission. We post it as supplied by the authors.

Supplement to: Pavone P, Ceccarelli M, Marino S, et al. SARS-CoV-2 related Paediatric Acute-onset Neuropsychiatric Syndrome. *Lancet Child Adolesc Health* 2021; published online May 4. https://doi.org/10.1016/S2352-4642(21)00135-8.

Table I – Test results

	Patient 1	Patient 2
Sex	M	M
Age (years)	12.1	13.3
WBC (cells/μL)	8,320	7,410
RBC (cells/μL)	4,980,000	4,720,000
CRP (mg/dL)	3.6	4.8
ASLO (IU/mL)	198	< 250
Anti-DNAse B (IU/mL)	101	< 200
ABGA (titer)	1:200	1:100
ENA (titer)	negative	negative
EMA (titer)	negative	negative
ANA (titer)	negative	negative
AMA (titer)	negative	negative
ASMA (titer)	negative	negative
Mycoplasma pneumoniae IgM	negative	negative
Mycoplasma pneumoniae IgG	negative	negative
Rubella virus IgM	negative	negative
Rubella virus IgG	negative	negative
EBNA-IgG	negative	negative
EA-IgM	negative	negative
VCA-IgM	negative	negative
VCA-IgG	negative	negative
CMV-IgM	negative	negative
CMV-IgG	negative	negative
Chlamydia pneumoniae IgM	negative	negative
Chlamydia pneumoniae IgG	negative	negative
Herpes simplex virus 1 and 2 IgM	negative	negative
Herpes simplex virus 1 and 2 IgG	negative	negative
Previous SARS-CoV-2 nasopharyngeal swab	positive	positive
SARS-CoV-2 nasopharyngeal swab during admission	positive	negative
EKG	normal	normal
EEG	normal	normal
Brain MRI	normal	normal
CY-BOCS	22	28

Patient 1 and patient 2 underwent several tests during admission. All of them, except ABGA resulted either negative or normal. CY-BOCS was 22 for patient 1, highlighting a moderate obsessive-compulsive disorder, while it was 28 for patient 2, highlighting a severe obsessive-compulsive disorder. Abbreviations: WBC, white blood cells; RBC, red blood cells; CRP, C reactive protein; ASLO, anti-streptolysin O; ABGA, anti-basal ganglia antibodies; ENA, anti-extractable nuclear antigens antibodies; EMA, anti-endomysium antibodies; ANA, anti-nuclear antigen antibodies; AMA, anti-mitochondrial antibodies; ASMA, anti-smooth muscle antibodies; IgM, immunoglobulin M; IgG, immunoglobulin G; EBNA, Epstein-Barr Nuclear Antigen; EA, Epstein-Barr Early Antigen; VCA, Epstein Barr Viral Capsid Antigen; CMV, Cytomegalovirus; SARS-CoV-2, Severe Acute Respiratory Syndrome Coronavirus 2; EKG, electrocardiogram; EEG, electroencephalogram; MRI, magnetic resonance imaging; CY-BOCS, Children's Yale-Brown Obsessive Compulsive Scale.



Patient 1 – Brain MRI: 3rd and 4th ventricles are eumorphic and on axis. There are no obvious signal modifications of either the brain stem or the cerebellar hemisphere. The supratentorial ventricular system is symmetric and on axis. The cerebral cortex appears with a normal volume, thickness and signal. There are no changes of the cerebral parenchima. There are no areas of increased restrictions during diffusion. Normal width of periencephalic CSF spaces of the ceiling and the basis. Abbreviations: MRI, Magnetic resonance imaging; CSF, cerebral-spinal fluid.

Patient 1 – EEG: The graphic recorded today did not show any pathologic change.

Patient 2 – EEG: Basal activity seems to be made up of a continuous rhythm included in a normal range of frequency (8-10 Hz). The intermittent light stimulation at low and high frequencies does not cause any change of the basal rhythm. Presence of artifacts caused by muscular contraction. In conclusion: the graphic recorded today did not show any pathologic change.