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Opsoclonus Myoclonus Ataxia Syndrome (OMAS) in the setting of COVID-19 infection

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A middle-aged male presented with imbalance and involuntary jerky movements of the body, 3 weeks after initial recovery from COVID-19 lung infection, diagnosed by positive HRCT thorax [CO-RADS 5] and RT-PCR from nasal swab. He had opsoclonus, cortical myoclonus and symmetric cerebellar ataxia of speech, limbs, trunk and gait on examination¹ [see video1]. His MRI Brain with contrast, CSF examination, HIV, VDRL, autoimmune and paraneoplastic panel [including Anti-GAD, ANA, ANCA, Anti Hu, Anti Yo, Anti Ri, Anti Amphiphysin, Anti PNAM2-Ma2/Ta antibodies], metabolic functions [hemogram, haematocrit, glucose, thyroid, renal, hepatic functions, electrolytes, serum and urine osmolality] and repeat nasal COVID-19 RT-PCR were normal. He recovered after treatment consisting of intravenous methylprednisolone [1gm/day], sodium valproate [20mg/kg/day], clonazepam [2mg/day] and levetiracetam [2gm/day] in a week [see video2]. Our case adds to the increasing list of novel neurologic manifestations occurring in the setting of COVID-19.^{2,3}

Full Forms:

COVID 19—Corona Virus Disease 19

CO-RADS- COVID Reporting and Data System

HRCT –High resolution Computerized tomography

RT PCR—Reverse Transcriptase Polymerase chain reaction

MRI—Magnetic Resonance Imaging

CSF-Cerebrospinal fluid

HIV- Human Immunodeficiency Virus

VDRL- Venereal Disease Research Laboratory

Appendix 1: Authors

Name	Location	Contributions
Priyank Bharatkumar Shah, MD, DM	Privya Clinic, Ahmedabad, Gujarat, India	Drafting/revision of the manuscript for content, including medical writing for content; Major role in the acquisition of data; Study concept or design; Analysis or interpretation of data
Soaham Dilip Desai, MD, DM	Shree Krishna Hospital and Pramukhswami Medical College, Karamsad, Anand, Gujarat, India	Drafting/revision of the manuscript for content, including medical writing for content; Study concept or design; Analysis or interpretation of data

Video 1-<http://links.lww.com/WNL/B243>

Video 2-<http://links.lww.com/WNL/B244>

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