

Recovery Following Rehabilitation In Post COVID19 Associated Demyelination - A case report

Antony Judy M¹, Nidhi Rawat², Jimi Jose³



Introduction

- COVID -19 is caused by novel corona virus SARS-CoV-2
- More than 1/3rd of patients develop neurological manifestations¹
- Demyelination is seen as a complication in severe COVID¹

Case Report

- o A 47 year old , known Diabetes mellitus, Hypertension, Chronic Kidney Disease tested positive for COVID prior to surgery for bilateral cataract
- Three days later, he had loss of consciousness, dysphagia, global aphasia and weakness of all four limbs.
- Initial CT Brain was Normal.
- He was managed conservatively.
- \circ He was admitted in our department after 1 $\frac{1}{2}$ months. Covid test was negative
- Functional status: He is bed- bound: He is taking feeds through Ryle's tube and dependent for all activities of daily living.

Department of Physical Medicine and Rehabilitation, St John's Medical College Hospital, Bangalore, India				
Introduction	Investigations			Discussion
aused by novel corona virus of patients develop neurological		Pre dialysis	Post dialysis	 Luca Zenin et al ¹, Agabio D Anahita Zoghia et al ³ have demyelinating lesions in bra
	S. Sodium	154	134	
	S. Urea	209.1	69.5	
	S. Creatinine	2.62	1.20	• However, none of the case

 MRI Brain- T1 hypointense lesions involving bilateral centrum, semiovale with diffusion restriction



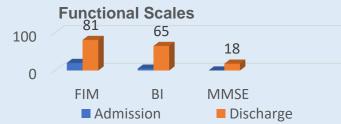


Management

- Medical management: Steroids, Memantine and Donepezil
- **Rehabilitation**: Physiotherapy, Occupational therapy and Speech & swallow

Functional status at discharge

• At discharge: He is walking with walker



Discussion

- Luca Zenin et al ¹, Agabio Diogenes et al ² Anahita Zoghia et al ³ have reported post-Covid demyelinating lesions in brain and spinal cord.
- However, none of the case reports reported their functional outcomes
- Our patient reported significant improvement in functional status following rehabilitation

Conclusion

- Demyelination is a common post-Covid sequelae
- Most of these cases present with severe functional limitations
- They are likely to benefit from an early comprehensive rehabilitation program.

References

- 1. Event of the central nervous system following COVID-19Luca SARS-CoV-2 can induce brain and spine demyelinating lesions
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- 3. 3. Anahita Zoghia A case of possible atypical demyelinating