

AZD-1222

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Acute demyelinating motor polyneuropathy (Guillain-Barre syndrome): case report

A 59-year-old man developed acute demyelinating motor polyneuropathy (Guillain-Barre syndrome) after receiving AZD-1222 vaccine against COVID-19.

The man acutely developed four limb distal paraesthesia and postural instability 10 days after receiving AZD-1222 [ChAdOx1 nCoV19 (ABW1277); *dosage and route not stated*] vaccine against COVID-19. After 15 days of vaccination, he underwent a neurological examination. He had a medical history of hypertension and hyperuricaemia. The physical examination revealed gait ataxia, global areflexia, and distal paraesthesia both at the lower and upper limbs. Subsequently, EMG showed motor polyradiculoneuropathy with temporal dispersion of the tibial nerve Compound Muscle Action Potential (cMAP) bilaterally, with F reflex absent in all districts. These findings were suggestive of acute demyelinating motor polyneuropathy (Guillain-Barre syndrome). Hence, he was admitted for further investigations. In the following 24 hours, he showed clinical worsening, due to cranial nerves involvement with bilateral facial palsy (House-Brackmann grade V). Lumbar puncture was performed, and CSF analysis revealed elevated proteins.

The man was treated with immune globulin. In addition, he was initiated on physiotherapy. On day 5, his symptoms slowly improved. After 10 days, repeat EMG examination revealed worsening of the electrophysiological findings, with diffuse and evident signs of motor nerve demyelination (upper and lower limbs, and cranial district). It was concluded that there was a temporal correlation between administration of AZD-1222 vaccination and development of acute demyelinating motor polyneuropathy (Guillain-Barre syndrome).

Nasuelli NA, et al. A case of acute demyelinating polyradiculoneuropathy with bilateral facial palsy after ChAdOx1 nCoV-19 vaccine. *Neurological Sciences* 42: 4747-4749, No. 11, Nov 2021. Available from: URL: <https://link.springer.com/article/10.1007%2Fs10072-021-05467-w>

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