

inflammation can damaged effect on the nerve fiber. Aim was to assess the relationship between the inflammatory markers TNF- $\alpha$ , CRP and electroneurophysiological (ENMG) parameters depending on the duration of DPN.

#### Methods

76 patients with DM2 were evaluated (target HbA1c level <8%). The mean age was  $62.6 \pm 0.7$  years, the duration of DM2 was  $6.8 \pm 0.5$  years. There were two groups depending on the duration of the PDN: 1 ( $n = 34$ ) - less than 2 years, 2 ( $n = 34$ ) - more than 2 years. We used the American Nicolet Viking IV for a quantitative assessment of the speed of conduction along the nerve. TNF- $\alpha$  and CRP was carried out using immunological methods.

#### Results

There was a speed decrease of the motor and sensory peripheral nerves. The conduction was significantly lower in group 2 ( $p < 0.05$ ), with more severe damage to the motor fibers. Correlation analysis showed a direct relationship between CRP and nerve conduction velocity ( $p < 0.05$ ) in both the 1 and 2 groups. Similar changes were revealed between TNF- $\alpha$  and the sensorimotor dysfunction according to ENMG, a direct relationship was noted between TNF- $\alpha$  and the speed of conduction along the nerve ( $p < 0.05$ ) both in the 1 and 2 group.

#### Conclusions

The high level of inflammation markers TNF- $\alpha$ , CRP in patients with DM2 and a long history of DPN confirms the hypothesis of a possible contribution of nonspecific inflammation to the development of neuropathy.

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## 119964

### COVID-19 Pandemic: The response of the American academy of neurology

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#### Background and aims

The Covid-19 pandemic is the most disruptive force the world has experienced in over 100 years. This presentation will discuss the process the American Academy of Neurology employed in making decisions during the unprecedented changes and uncertainties which arose from the pandemic, the programs which were initiated, and the resulting successes experienced by the organization, the membership, and patients suffering from neurologic disease.

#### Methods

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#### Results

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#### Conclusions

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## 119965

### An interesting case of cerebral AVM

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#### Background and aims

Vascular malformations in brain can present with varied symptoms like focal or generalised seizure, severe headache, focal neurological deficits and sudden loss of consciousness. Approximately one-third to one-half of patients with newly diagnosed previously unruptured brain Arteriovenous Malformations(AVM) present with seizures. One percent of unprovoked first seizures are caused by brain AVMs.

#### Methods

A 52 years old post-menopausal female with emotionally grief condition and prolonged crying due to loss of a family member came with complaints of sudden focal seizure without aura or automatism involving right upper limb and lower limb with deviation of head towards right side, tonic in nature, lasting for 2 minutes with impaired awareness without any postictal weakness or confusion, with no previous history of seizures or any comorbidities.

#### Results

MRI Brain showed cluster of multiple T2 flow voids in left frontal region measuring  $5.2 \times 5.3$  cm without surrounding edema & mass effect suggestive of Arterio-Venous Malformation in left frontal lobe (Spetzler-Martin grading 2) (Bag of black worms appearance).

#### Conclusions

The mass effect of the brain AVM nidus or associated venous pouches may be responsible for triggering seizure activity. First focal seizure whether its provoked or unprovoked, irrespective of age, sex and systemic comorbid condition and previous normal neurological status, necessitates detailed and urgent neuro-imaging to rule out major life threatening causes of any etiology like vascular, neoplastic, infective, inflammatory, immune mediated, CSF flow disorders and congenital anomalies in brain.

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## 119966

### A study of using baria zasal therapy as a treatment method of concussion

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#### Background and aims

In Traditional Mongolian medicine the baria zasal therapy has been inherited for hundreds of years due to the Mongolian lifestyle and nomadic culture. TMM's Baria zasal therapy hasn't lost its value even the modern medicine, developing rapidly nowadays and still using as a main treatment of concussion. To study the factors in choosing the baria zasal treatment in concussions.

#### Methods

A total of 400 hundred people was surveyed in our study and asked what would they do if their child had a concussion. The questionnaire also included the demographics and religions of the respondents.



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