



Multiple Cranial Nerve Palsies and hearing loss in sarcoidosis: A Case Report

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Introduction

Sarcoidosis is an idiopathic inflammatory disorder characterized by noncaseating granulomas, which can affect any organ system. The lungs are most commonly affected but extrapulmonary sites may cause the initial and/or sole symptoms.

Observation

A 67-year-old female presented with Multiple Cranial Nerve Palsies and a 5-day history of acute onset hearing loss, inflammatory arthralgia of large joints, and fever.

Physical examination showed knee –arthritis. Audiometry revealed bilateral moderate sensorineural hearing loss at 60 dB. Laboratory tests showed: hypercalciuria at 10 mmol/24 H and aseptic leukocyturia. The infectious survey was negative.

Computed tomography showed hepatomegaly with fatty liver. Immunological tests, chest X-ray, Electrocardiogram, and echocardiography were normal. Cerebral MRI was normal. Minor salivary gland biopsy showed a granuloma.

Sarcoidosis was diagnosed.

Prednisone at doses of 50 mg/day was initiated showing a good response. The patient remained asymptomatic after 7 months.

Conclusion

If sudden hearing loss is associated with cranial neuropathy, an autoimmune and inflammatory workup is highly recommended.

A high dose of corticosteroids should be started as soon as the diagnosis is established to prevent permanent hearing loss.