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Case Report

Isolated bilateral facial palsy due to chicken pox- An unique presentation

Abstract

A nineteen year old girl presented with lesions of chicken pox and inability to close both eyes properly for two days. She had difficulty in eating and smiling. Vesicular non pruritic rashes were visible in various stages of healing over face and body except palm and soles. She complained of bilateral headaches but no vomiting, or weakness in her limbs or alteration of her taste sensation. She was alert and cooperative with normal speech and memory. B/L lower motor neuron type of facial nerve palsy was found. Routine blood work up, serology for HIV and Lyme disease, chest x ray, CSF study and MRI brain were normal.

She was prescribed 60 mg of prednisolone and 4000 mg of acyclovir every day for 14days. She recovered completely from the neurodeficit within 14 days.

Case Report

A nineteen year old girl presented with lesions of chicken pox and inability to close both eyes properly for two days. She had difficulty in eating and smiling. On examination, there was no anemia, cyanosis, jaundice, edema or lymphadenopathy. Vesicular non pruritic lesions were visible in various stages of healing over face and body except palm and soles. She complained of bilateral headaches but no vomiting, or weakness in her limbs and no alteration of her taste sensation. She was not on any medications and had no prior illness apart from the onset of chicken pox 7 days ago. Her vital signs were normal.

The head, ears, nose, and throat were all normal. The neck was supple, with a midline trachea. She was alert and cooperative with normal speech and memory.

B/L lower motor neuron type of facial nerve palsy examination of the other systems was normal. Routine blood work up, serology for HIV and Lyme disease, chest x ray, CSF study and MRI brain were performed which were normal.

She was prescribed 60 mg of prednisone and 4000 mg of acyclovir every day for 7 days. However, she was asked to present in next outdoor visit and all medications were continued for 7 more days. She recovered completely from the neuro deficit within 14 days (Figures 1-4).

Discussion

Isolated bilateral facial nerve is a rare neurological

complication associated with varicella infection. Unilateral involvement reported only in 0.01-0.03% of the infections. Bilateral facial nerve palsy is a rare condition and hence presents



Figure 1: Inability to close both eyes properly. Lesions of chicken pox in various stages of healing.



Figure 2: Inability to smile due to bilateral facial nerve palsy.





Figure 3: Full recovery after 14 days to therapy.

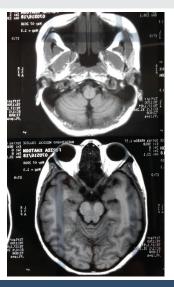


Figure 4: MRI brain normal.

a diagnostic challenge. Unlike the unilateral presentation, it is seldom secondary to Bell's palsy. The majority of patients with bilateral facial palsy have Guillain-Barre Syndrome (GBS), multiple idiopathic cranial neuropathies, Lyme disease, sarcoidosis, meningitis (neoplastic or infectious), brain stem encephalitis, benign intracranial hypertension, leukemia, Melkersson-Rosenthal syndrome (a rare neurological disorder characterized by facial palsy, granulomatous cheilitis, and fissured tongue), diabetes mellitus, human immunodeficiency virus (HIV) infection, syphilis, infectious mononucleosis, malformations as Mobius Syndrome, vasculitis, or bilateral neurofibromas. The possibility of intrapontine and prepontine tumor should also be considered [1–3]. Thus, it should be carefully investigated before establishing the diagnosis of Bell idiopathic palsy [4].

The most common infectious cause of bilateral FNP is Lyme disease, caused by spirochete Borrelia burgdorferi, whose carrier is a common tick [5]. Bilateral FNP can be seen in about 30–35% of patients with Lyme disease. Diagnosis is serologic, and IgM antibodies increase in the second week and tend to decrease with treatment, while IgG antibodies appear late with reaching its peak in the second or third month, and it can indefinitely remain positive [6,7]. Common ticks are found in northern Himalayan regions of India. Therefore tick borne lyme disease is not very uncommon supported by two articles published in two reputed journals of Dermatology [8,9].

Bilateral palsies usually reflect an underlying systemic pathology whereas unilateral peripheral facial palsies are usually idiopathic (presumably virally related). This one is a rare exception of this hypothesis where a patient with viral infection (chicken pox) presented with bilateral facial palsy in the absence of GBS or meningitis.

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