Laryngeal Involvement in Systemic Lupus Erythematosus
Soukaina Oumlil¹, Jaouad Yousfi¹*, Mouna Zahlane¹, Lamiaa Essadouni¹

¹Department of Internal Medicine, University Hospital of Mohammed VI, Marrakesh, Morocco

Introduction
Laryngeal involvement in systemic lupus erythematosus (SLE), first described by Scarpetti DG [1] in 1959, is rare and often asymptomatic. It occurs mostly during SLE flares, with a usually favorable outcome, and is only exceptionally severe with life-threatening laryngeal obstruction.

Observation
A 18-year-old female patient was diagnosed with SLE revealed by pericardial tamponade. In addition, the patient presented with bilateral inflammatory arthralgia, malar rash and photosensitivity. Initial workup revealed lymphopenia and a biological inflammatory syndrome. Antinuclear antibodies were positive at 1/1280 with a homogeneous fluorescence and positive anti-dsDNA at 300 IU. Urine protein test was positive at 4.2g/day revealing a class IV lupus nephritis. Four months later, the patient presented with a sudden onset dysphonia. Laryngoscopy showed paralysis of the left vocal cord. The patient was treated with systemic corticosteroid with a favorable evolution.

Discussion
SLE is an autoimmune disease characterized by skin, joint, hematological and visceral involvement. Otorhinolaryngologic (ENT) manifestations during SLE are very rare, and include cervical polyadenopathies, laryngeal involvement, facial paralysis, trigeminal neuralgia and other less frequent and non-specific abnormalities [2].

Laryngeal involvement is rare in SLE. It usually occurs during a flare with visceral involvement. But cases of inactive lupus with ENT involvement have been reported.

This could be due to the immune complex deposition in the laryngeal mucosa or muscle(s) or recurrent laryngeal neuropathy revealed by either a vasculitis involving vasa nervorum, neuritis or dilated pulmonary artery [3, 4]. In our case, vocal cord paralysis is thought to be caused by recurrent laryngeal neuropathy due to vasa nervorum involvement.

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The clinical manifestations are quite varied, with the main signs being dysphonia, dyspnea, pain on swallowing or speaking. However, most cases are asymptomatic. Tsunoda et al., [5] reported one case where SLE was revealed with dysphonia, while Korbet et al., [6] described a case of dysphonia, foreign body sensation and respiratory difficulties that occurred during SLE. Martin et al., [7] performed tracheotomy in 2 of their 4 patients with acute respiratory distress syndrome. Burgess and Render [8] reported a case in which the patient had a hoarse voice and dysphagia due to SLE-associated laryngopharyngitis.

Clinical examination usually reveals inflammation with occasional necrosis, laryngeal paralysis, cricoarytenoid arthritis [9, 10], mild ulceration of the laryngeal mucosa, laryngeal edema involving the vocal cords and the arytenoid mucosa. In a series of 97 cases, vocal cord paralysis and laryngeal edema were the two main clinical manifestations of this entity (28% and 11% of cases) [11].

Our patient presented with an isolated dysphonia. The endoscopic examination had shown paralysis of the left vocal cord without mucosal thickening.

Systemic glucocorticoids have been the mainstay of treatment in SLE with laryngeal involvement, however some cases went on to develop obstructive respiratory distress warranting emergency interventions such as tracheotomy and intubation [12].

**CONCLUSION**

Although laryngeal involvement is rare, foreign body sensation, dysphonia, or respiratory distress in patients with SLE should be suggestive of laryngeal involvement. Similarly, SLE should be considered in any young woman presenting with laryngeal involvement with inconclusive investigation results.

**REFERENCES**


