INTRODUCTION

Dizziness is a common symptom in medical practice, and may be associated with over 300 diseases. Although most cases of dizziness are related to vestibular system dysfunction, some result from involvement of other parts of the body. Recent studies have shown that there is an association between auditory/vestibular symptoms and autonomous nervous system dysfunction, suggesting that this may be a cause of certain vestibular diseases.1,2

CASE REPORT

CLBP, a female patient aged 47 years presented with non-rotating dizziness, a loss of balance lasting from 3 to 5 minutes for the past three years. Dizziness disappeared spontaneously upon lying down. Other accompanying symptoms included nausea, vomiting, darkened vision, cold sweating, tinnitus and dysautonomia, and reported that 58% of patients had provoked the otological and vestibular investigation prior to therapy.

Figure 1. Pure tone and voice audiometries of the patient prior to therapy.

DISCUSSION

Recent studies correlating vestibular conditions with autonomous nervous system disorders have been published. The current prevalence of this condition is low, although there is the likelihood that it is underdiagnosed. Staab et al. reviewed 1,400 cases of patients with dizziness and reported that the prevalence of effort-induced dizziness was 0.6%, provoked by malfunction of the autonomous nervous system.3

Pappas assessed 113 cases of patients diagnosed with vestibular disorders and dysautonomia, and reported that 58 cases had been previously treated as having Ménière’s disease. Of these patients, 9% had improved, symptoms were unchanged in 34%, and auditory/vestibular symptoms worsened in 57%. After therapy for dysautonomia was started, 86% of cases improved and 14% were unchanged; no cases worsened.4

These findings underline the importance of physicians being attentive to clinical features that do not progress satisfactorily; the investigation may be insufficient, with consequences in the treatment.

The case report illustrates the probable correlation between vestibular disorders and dysautonomia. No other likely cause for the patient’s symptoms, except for the neurocardiogenic syncope, was found. Dietary deficiencies may increase vestibular dysfunction, but clinical improvement after therapy for dysautonomia suggests that this condition had provoked the otological and vestibular findings, as has been reported by other authors.1,2

FINAL COMMENTS

Further studies are needed to clarify the connection between dysautonomia and vestibular disorders, especially its physiology and pathology. There is enough evidence to suggest that dysautonomia is an important cause of dizziness, and possibly other otoneurological conditions.

REFERENCES


Keywords: autonomic dysfunction, dizziness, vertigo, vestibular disease.