

ABSTRACT

Drug Utilization Study in Tinnitus Patients (Study at the Otorhinolaryngology Unit of Dr. Soetomo Surabaya)

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Tinnitus is a hearing impairment in the form of sound sensations without any external stimulation. Sounds that can be heard when tinnitus occurs include ringing, buzzing, hissing, roaring, clicking sounds, and pulse. Tinnitus had different therapies adapted to the underlying cause so varied therapeutic modalities and the most used drug such as corticostreoid (methylprednisolone), antihistamine (betahistine), neurotropic (Vitamin B₁, B₆, B₁₂) and herbal medicine extract (*Ginkgo biloba*) aimed to obtain a synergistic effect. The study aimed to analyze drug profile and also to identify drug related problems include the potensial adverse drug effects in tinnitus patients. Method of this study was a retrospective study with descriptive analysis using patient medication records performed at the Otorhinolaryngology Unit of Dr. Soetomo Surabaya period January 2017 to December 2019. There were 88 patients included in this study. The result of the study showed that the most used drugs in this study are betahistine 27 patients, methylprednisolone 15 patients, neurotropic (Vit B₁, B₆, B₁₂) 81 patients and *Ginkgo biloba* extract 54 patients. In this study, the potential adverse drug effect, were Cushing syndrome, adrenal suppression and withdrawal syndrome, hyperglycemia, osteoporosis, gastrointestinal disorders, nausea, diarrhea, dizziness, headache, changes in blood pressure, palpitation and increased urination. Based on the description above, type, dosage, and frequency of drug for tinnitus are varied and had been appropriate with the existing literature.

Keywords: Tinnitus, Betahistine, Methylprednisolone, Mecobalamin, *Ginkgo biloba*