ABSTRACT

DRUG UTILIZATION STUDY IN SUDDEN HEARING LOSS
(Study at Audiologic Ward of Dr. Soetomo Hospital Surabaya)

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Sudden deafness or sudden hearing loss (SHL) is an otologic emergency, because hearing function is needed within the communication process. This condition requires some proper handling, but the management therapy still varies.

Objective of this study was to analyze the type, dose, duration, route of administration, the tapering off dose pattern and the potential drug related problems (DRPs) of corticosteroid on cases of SHL therapy. This was an observational retrospective study with descriptive analysis method at the period of January 1st 2012 until December 31st 2015 (N=81). This research has been reviewed by Dr. Soetomo Surabaya’s Ethic Committee.

The main therapy in SHL is corticosteroid. Oral prednisone and oral methylprednisolone were the common used corticosteroid. Methylprednisolone used at the dose of 24-48 mg/day for 3-7 days and the tapering off dosage every 3 days afterward with the reduction of 8 mg/3 days until the dosage of 8 mg/day. Prednisone used at dose of 15-108 mg/day for 7 days and the tapering off dosage every 7 days afterward with the reduction of 5 mg/week until the dose of 5 mg/day. Drug related problems (DRPs) were the potential side effects of corticosteroid and the potential interactions of corticosteroid with other medicine.

Key word : Sudden Hearing Loss (SHL), Corticosteroid, Tapering Off Corticosteroid, Drug Related Problems (DRPs), Potential Side Effect, Potential Drug Interaction