DISCHARGE FACTORS OF BIOMEDICAL WASTE OF HOSPITALS IN TAIWAN

Jim Juimin Lin¹*, Mei-Chuan Huang²

¹Department of Safety, Health, and Environmental Engineering, National Kaohsiung First University of Science and Technology, Nanzih, Kaohsiung, Taiwan 811, ROC
²Institute of Engineering Science and Technology, National Kaohsiung First University of Science and Technology, Nanzih, Kaohsiung, Taiwan 811, ROC

Abstract

This investigation consists of an analysis of data collected by the Industrial Waste Control Center Report System. Biomedical waste accounted for 20.90-25.54% of all hospital waste in Taiwan from 2005 to 2011. The waste discharge factors were 2.31 and 3.26 kg/bed/day at bed occupancy rates of 80% and 60%, the biomedical waste discharge factors were 0.50 and 0.83 kg/bed/day, respectively. These discharge factors can be used to determine whether the amount of solid waste reported by a hospital is reasonable and safe, given biomedical waste treatment resources.

Key words: biomedical waste, discharge factors, waste management

Received: August, 2011; Revised final: June, 2012; Accepted: June, 2012