



**“Gheorghe Asachi” Technical University of Iasi, Romania**



---

## **DISCHARGE FACTORS OF BIOMEDICAL WASTE OF HOSPITALS IN TAIWAN**

**Jim Juimin Lin<sup>1\*</sup>, Mei-Chuan Huang<sup>2</sup>**

<sup>1</sup>*Department of Safety, Health, and Environmental Engineering, National Kaohsiung First University of Science and Technology,  
Nanzih, Kaohsiung, Taiwan 811, ROC*

<sup>2</sup>*Institute 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*

---

---

\* Author to whom all correspondence should be addressed: e-mail: [envelin@nkfust.edu.tw](mailto:envelin@nkfust.edu.tw); Phone: +886 76011000 ext 2312; Fax: +886 76011061