

## Generation of Medical Waste in Hospitals in Interior of São Paulo, Brazil

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**Abstract :** Introduction: The Medical Waste (MW) are responsible per 2% of total waste generated for a city and has merited attention due the risks that offers to the public health and environment, representing an important aspect in waste management. In Brazil, the Resolution 306/04 of the National Health Surveillance Agency classifies the MW into 5 groups as follows: Group A (GA) biological, Group B (GB) chemical, Group C (GC) radioactive waste, Group D (GD) common, and Group E (GE) sharps. Objective: This study aimed to determine the amount of waste generated in hospitals of Ribeirão Preto, São Paulo, Brazil. Material and Methods: This is a field research, exploratory, using quantitative variables. The survey was conducted in 11 hospitals in Ribeirão Preto, located in the State of São Paulo, Brazil. It is noted that the study sample included general hospitals, skilled, university, maternity, and psychiatric; public, private, and philanthropic; and large, medium, and small. To quantify the MW, the weighing of the waste was held for six days, following methodology adapted from PAHO. Data were analyzed using descriptive statistics, determining the average global generation of MW and for each group. This research was carried out after approval by the Ethics in Research of the University of São Paulo. Thus, in order to comply with the ethical principles of research, to present the results hospitals were numbered from 1 to 11. Results: The data revealed a greater generation of biological waste among teaching hospitals, which can be justified by the use of materials for the realization of techniques.

**Keywords :** environmental health, management of medical waste, medical waste, public health

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