سيويليكا - ناشر تخصصى مقالات كنفرانس ها و ژورنال ها گواهی ثبت مقاله در سيويليكا CIVILICA.com

عنوان مقاله:

Assessing the Rate of Recyclable Plastic Wastes and Recycling Economic Value in Hospitals of Yazd in Y.YY

محل انتشار:

فصلنامه بهداشت محيط و توسعه پايدار, دوره 9, شماره 1 (سال: 1402)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

Introduction: Special and infectious wastes are the most significant wastes generated in hospitals, health centers, and similar facilities. Reducing and recycling such wastes at the source pose significant challenges to waste management. Therefore, this study assesses the components of healthcare waste in terms of their recyclability, emphasizing different types of plastic. Materials and Methods: Data collection involved sampling normal and infectious waste in selected hospitals over three months using monthly checklists. The total waste generated in these hospitals was analyzed on a daily basis. Moreover, the average microbial load of infectious waste was determined through microbial strip tests and biological tests following patient companion. Tests were performed with the acceptable performance of safe hospital devices with the destruction of microorganisms. Results: Average waste composition in the selected hospitals included εΔ-ν·% general waste and $\tau \cdot -\tau \Delta$ % infectious waste. The most common generated infectious waste was polyethylene (PE) sets ($\lambda \cdot \cdot \cdot kg/month$), while the predominant general waste was nylon bags for polyethylene terephthalate (PETE) packaging ($\Delta \tau \cdot kg/month$). Hospital \(\tau \) had the highest per capita production of recyclable waste, generating \(\tau, \tau \cdot \cdot kg\) and \(\tau, \tau \cdot kg\) of normal and infectious waste per month, respectively. The total revenue generated from selling normal and infectious plastic waste was \(\tau, \tau \cdot \tau \cdot kg\) of normal and infectious: The mixing of waste can be prevented by properly segregating normal and infectious waste and adequate staff training. Given the escalating disposal costs of health-care waste (HCW) and the shrinking space in landfills, efforts to minimize waste generation are crucial for effective recycling and reuse processes

كلمات كليدى:

.Equipment Reuse, Medical Waste Disposal, Economic, Recycle, Hospital

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