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Assessment of Biomedical Waste in West, Central, North Zones of Hyderabad

Keesagani Aakanksha[1], G. Karthik Reddy[2], Diddi Adarsh[3], A. Manideep Reddy[4], Dr. R. Premsudha[5], G. Tirupathi[6]
UG Students, Department of Civil Engineering[1,2,3],4
Professor, Department of Civil Engineering[5]
Assistant Professor, Department of Civil Engineering[6]
TKR College of Engineering and Technology, Hyderabad, India

Abstract: *Waste disposal is especially important when it comes to medical supplies, as some waste can be contaminated with diseases and dangerous pathogens. Not all biomedical waste is treated the same way and different disposal companies use different methods such as autoclaving, incineration, chemicals and microwaves. Improper disposal of medical waste causes environmental pollution, unpleasant odours, the growth and reproduction of insects, rodents and nematodes, and injuries from blood-contaminated sharp objects, typhoid fever, cholera, hepatitis, etc. can lead to disease transmission. Thisstudy will reveal the current processes and environmental impacts of biomedical waste management by examining the quantity and quality of biomedical waste (BMW) generated by pharmacies, laboratories and multiple speciality hospitals.*

Keywords: Biomedical waste, health care waste, Clinical waste

REFERENCES

[1]. Singh, Amrita & Singh, Jaspal & Singh, A & Singh, Dr. (2014). Biomedical Waste Management And Their Possible Health Risks With Controlling Measures in bareilly city, up, India. Octa Journal of Environmental Research. Vol 2 9(4): pp 296-302.

[2]. Dixit AM, Bansal P, Jain P, Bajpai PK, Rath RS, Kharya P. Assessment of Biomedical Waste Management in Health Facilities of Uttar Pradesh: An Observational Study. Cureus. 2021 Dec 2;13(12): e20098. doi: 10.7759/cureus.20098. PMID: 34993039; PMCID: PMC8720173.

[3]. Mr Saikiran Ravi Chindam, Study On Hospital Solid Waste Management In India, -- Palarch's Journal of Archaeology of Egypt/Egyptology 18(1). ISSN 1567-214x

[4]. Dr. Biswapriya Jena, Dr. Sangha Mitra Patnaik, Dr. Nabnita Patnaik. Impact Of Improper Biomedical Waste Disposal On Human Health And Environment During COVID- 19 PANDEMIC. European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 08, Issue 03, pp 4137-4143, 2021.

[5]. Srivastava, Dr Jyoti. (2013). Knowledge Regarding Biomedical Waste Management among the Staff Nurses. Vol 5. pp 1714-1717.

[6]. Roy P, Mohanty AK, Wagner A, Sharif S, Khalil H, Misra M. Impacts of COVID-19 Outbreak on the Municipal Solid Waste Management: Now and beyond the Pandemic. ACS Environmental Au. 2021 Aug 20: acsenvironau.1c00005. doi: 10.1021/acsenvironau.1c00005. PMCID: PMC8525346.

[7]. Rajak R, Mahto RK, Prasad J, Chattopadhyay A. Assessment of bio-medical waste before and during the emergency of novel Coronavirus disease pandemic in India: A gap analysis. Waste Manag Res. 2022 Apr;40(4):470-481. doi: 10.1177/0734242X211021473. Epub 2021 May 27. PMID: 34044644.

[8]. Gowda A S, R., B., R., Satish Wantamutte, S., & Kumar P, V. (2020). Biomedical waste managementcurrent practices and future prospective in urban area. International Journal of Engineering Applied Sciences and Technology, 2020 Vol. 5, Issue 8, ISSN No. 2455-2143, Pages 229-231.

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[9]. Gadicherla, Suman & Thapsey, Hemanth & Krishnappa, Lalitha & Somanna, Shivaraj. (2016). Evaluation of biomedical waste management practices in select health care facilities of Karnataka. International Journal of Community Medicine and Public Health. Vol 3 issues 10 /pp 2394-6040.

[10]. NS, Saritha & B M, Veeregowda & G, Leena & Chakraborty, Sandip & Tiwari, Ruchi Dhama, Kuldeep & Singh, Shoor. (2014). Biomedical Waste Management. Advances in Animal and Veterinary Sciences. Vol 2(2). Pp 67-72.

[11]. Ramkrishna Mondal, Siddharth Mishra, Jawahar S. K. Pillai, Mukunda C. Sahoo. COVID-19 Pandemic and biomedical waste management practices in the healthcare system. Journal of Family Medicine and Primary Care. Volume 11: Issue 2 pp 439-446.

[12]. Acharya, Dr & Gokhale, Dr & Joshi, Deepa. (2014). Impact of Biomedical Waste on City Environment: Case Study of Pune, India. IOSR Journal of Applied Chemistry. Vol 6 issue 6. pp 21-27.

[13]. Javid Manzoor & Manoj Sharma (2019): Impact of Biomedical Waste on Environment and Human Health, Environmental Claims Journal, DOI: 10.1080/10406026.2019.1619265

[14]. Kumar, Ramesh & Abinaya, Venkata & Venkatesan, Alaga & Natrajan, Mohan. (2019). Bio-medical waste disposal in India: From paper to practice, what has been affected. Indian Journal of Health Sciences and Biomedical Research. Vol 12, issues 3, pp 202-210.

[15]. Rai, Dhananjai & Patel, Naveen & Srivastava, Amitabh. (2018). Assessment of Biomedical Waste Disposal and Management in Three Hospitals of Rishikesh, India. Vol 6. Issues 10, pp 2611-2616.

[16]. Narendra Singh, Oladele A. Ogunseitan & Yuanyuan Tang (2022) Medical waste: Current challenges and future opportunities for sustainable management, Critical Reviews in Environmental Science and Technology, 52:11, 2000-2022.