Short Communication

Biomedical Waste Disposal Training and Assessment Android Application

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Biomedical waste has greatest risk to healthcare, sanitation workers, waste handlers, scavengers, those living in the vicinity of hospitals and the general community. Thus, biomedical waste management has emerged as an issue of major concern not only to clinics, hospitals, nursing home authorities but also to the environment.

The biomedical waste without proper sterilization carries the risk of contracting acquired immune deficiency syndrome (AIDS), Hepatitis B & C, severe acute respiratory syndrome (SARS), tetanus, psychosocial trauma etc.^[1]

There is a big network of Health Care Institutions in India. So it is very essential to properly collect, segregate, store, transport, treat and disposed off hospital waste like body parts, organs, tissues, blood and body fluids along with soiled linen, cotton, bandage and plaster casts from infected and contaminated areas in safe manner to prevent nosocomial or hospital acquired infection. Expired drugs, cytotoxic material and sharp biomedical waste add burden to problem.

Planning the waste management and recycling for all of the waste generated in the health care facilities is a crucial task which plays an exceptionally important role in the worldwide cleanliness, public health, conservation of resources and sustainability of the ecosystem. Recycling medical waste minimizes utilization of raw material and reduces the amount of the waste materials that must be disposed in a landfill.

Biomedical waste management starts from the place of its generation. Segregation of waste plays a major role for improved biomedical waste management. It is important to reduce the volume of infectious waste otherwise the quantum of waste will go beyond the control of management.^[2]

Lack of segregation practices, results in mixing of hospital wastes with general waste making the whole waste stream hazardous. Inappropriate segregation ultimately results in an incorrect method of waste disposal which leads to increase risk of air, water and soil pollution. In same manner improper incineration leads to emissions of ash. Illegal trading of used syringes, injection needles and medical tools can also be prevented by proper management strategies. Awareness about hazards of biomedical waste and its proper disposal is required for a safe and healthy future. [3,4]

There are specific Standards and Objective element in NABH Chapters to take care of Knowledge, attitude and Practices of Biomedical Waste management amongst health care workers. As experience says it requires constant training and reminder to develop culture of proper BMW Segregation and Management thereafter. In bigger institute it is difficult to give frequent training looking at scope of work at HCO.

In the era of technology all healthcare worker starting from sweeper to super specialist are under influence of smartphone. Most of them are 24x7 with their cell phone. Taking advatage of Mobile addiction(!) we have develop biomedical waste disposal application according latest amendment of Biomedical Waste Management Rules till 2019 to give hands on training with frequent exposure to simulated biomedical waste segregation exercise

Description of Application: After installation of biomedical waste disposal application form play store(https://play.google.com/store/apps/details?id=u.biomedicalwaste). you will receive two option. 1.Training: which has image with instrution and link of Youtube Video explaining which biomedical waste disposal need to be segregate in which colour bin. 2. Test: It has Three level, It has 30/40/50 Biomedical Waste image respectively and if you correctly segretate 25/35/45 biomedical waste you will receive certificate with date, your name stating your score and level in which you have taken test.

We hope this application will be useful to all HCO, We Welcome feedback regarding application on cjshah79@yahoo.co.in

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REFERENCE

 Bhagawati G, Nandwani S, Singhal S (2015) Awareness and practices regarding bio-medical waste management among health care workers in a tertiary care hospital in Delhi. Indian J Med Microbiol 33(4): 580-582.

- 2. Mishra K, Sharma A, Sarita, Ayub S (2016) A study: Biomedical waste management in India. IOSR-JESTFT 10(5): 64-67.
- Arora M (2013) Hospital waste: Management & handling. IJOART 2(11): 238-245.
- David JJ, Shanbag P (2016) Awareness and practices regarding biomedical waste management among health-care workers in a tertiary care hospital in Delhi: Comment. Indian J Med Microbiol 34(3): 391-392.