



## **Viewpoint on Waste Management for Developing Methods of Educational**

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### **Dear Editor-in-Chief**

There is warning about ignoring the environment, in particular solid waste and the problem recently has been taken into consideration by the world (1). Since the generation process has a principal role in waste management, the generators place should not be ignored (2). Fast population growth, industrial development, technological advance, and human desire to increase material consumption and following more waste production have led to a massive social and economic crisis in human societies (3).

Given waste management importance and considering that Arak, central Iran has become one of the industrial hubs in the country due to the primary industrials and that is the 15th most populous city of the country (4). Hence, the present study is to assess the citizen's attitude toward the waste management to develop the appropriate educational methods

The present study method is cross-sectional-analytical and its community consists of 1215 households, 1739 school students, 149 teachers, 667 office staffs, 275 business people, and the cluster sampling was conducted across the city of Arak in 1391. To assess the community knowledge, attitude, performance and effective resources of in-

formation on proper waste management according to them, questionnaires were prepared. At the end, data were analyzed using statistical tests.

Finding showed that the mothers' mean score for knowledge is  $5.8 \pm 2.3$  (out of 8) and has been evaluated higher than average. Their attitude mean scores are  $26.1 \pm 7.8$  (out of 25) which indicates a positive attitude. Illiterate mother's means and standard deviations for knowledge is  $3.8 \pm 1.1$ , elementary educational level  $3.7 \pm 1.2$ , junior high school  $4.5 \pm 2.3$ , high school  $5.6 \pm 2.1$  and tertiary education  $7.4 \pm 2.7$  that there is a significant difference between them ( $P = 0.045$ ). In this study 70 percent of all three municipal districts believe re-using waste and 89.9% of them are in favor of collecting the segregated and sorted waste that their difference is significant ( $P=0.01$ ). The students mean score for knowledge and attitudes are  $4.1 \pm 1.9$  and  $20.63 \pm 5.9$  respectively. The majority of students (487 students, 32%) state the impact of online education on them very low. The business people and office staffs mean scores for knowledge about the waste management are  $4.5 \pm 2.1$ ,  $6.7 \pm 1.9$  and the difference between them is significant ( $P = 0.041$ ) and their mean score for

attitude are  $18 \pm 5.6$  and  $26.12 \pm 7.1$  that their difference is significant ( $P = 0.025$ ).

Waste is a serious environmental problem for both developed and developing countries. In recent years most developed countries has already set out to improve waste management operations (5). As the individual knowledge about the subject is good, the reasons of their low performance should be taken in to consideration. Due To the large amount of waste generated in schools, offices and businesses, providing in- person education through neighborhood health centers and their staff along with education through mass media is necessary.

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