Oral presentations Theme 3: Health and Wellbeing

OP26

Knowledge and attitude regarding garbage disposal and associated factors among Grade 9 and 10 students in Jaffna Educational Division

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Background and objective: Improper garbage disposal remains a challenge in Jaffna. This study aims to assess knowledge and attitudes towards garbage disposal and associated individual and school-related factors among Grade 9 and 10 students in Jaffna Educational Division.

Methods: A descriptive cross-sectional study was conducted among 854 students selected by stratified cluster sampling. Data were collected by a self-administered questionnaire during school hours. A knowledge score was computed based on 35 items with cutoffs (>=80% good, 50-79% average, <50% poor). Attitudes were scored as favourable, unfavourable or neutral based on a Likert scale (mean score >0 favourable, <0 unfavourable, 0 neutral). Data were analyzed on SPSS. Frequencies, percentages, and the chi-square test were used in the statistical analysis.

Results: In total, 831 students participated (response rate 97%). About a quarter (24%, n=202) had poor knowledge and 12% (n=101) had unfavorable attitudes. Over a third (40%) were not aware of disposal methods, 30% did not feel responsible for garbage disposal and 23% felt waste segregation was a nuisance. Being female (p<0.001), younger (p=001), parental education level being O/L or above (p<0.01), having a monthly household income of >Rs.50,000 (p<0.001), being given instructions on garbage disposal by teachers (p=0.021), presence of school environmental clubs (p=0.001), were associated with good knowledge. Being given instructions by teachers (p<0.001), presence of school environs by teachers (p<0.005) and presence of colour-coded bins in school (p=0.031), were associated with favourable attitudes.

Conclusion: School-based health promotion interventions, specifically those led by students, may help to improve knowledge and attitudes on garbage disposal of the school-going population.

Keywords: Garbage Disposal, Knowledge, Attitude, Secondary Schools, Jaffna