Title: Comparison of two teaching methods in traffic rules education in pre-school age children

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Abstract: Objectives and aims: Children are one of the most susceptible groups involved in traffic accident injuries. It is the most common cause of hospital admission and death in the age group of 5 to 9 years, and second cause of death in school age children after cancer disorders. To overcome this problem education of pre-school children may be an effective plan, and this study was designed to evaluate such an effect.

Materials and methods: this study was carried out on 579 students of 33 kindergardens of Kashan during 1388, using two methods of narration, and poster presentation of the events in streets. Then all of the children were evaluated and scored by the use of coloring, and marking the right pictures, or connecting the relevant pictures with each other. ANOVA, Chi square, and t-tests were used for the analysis of the findings. P< 0.01 was considered as significant.

Results: from 759 children, 407 (53.5%) were female and 302 (46.5%) male. Four hundred and two (53%) were in poster presentation and 357 (47%) in narration group. The obtained scores in poster group (53.5±9.1) was significantly higher than the narration group (51.1±10.5), (P= 0.001). Mean total score in girls was 53.5±8.2, and in boys 51.1±11.2, P= 0.001. In poster group mean score for girls was 54.3±8.3, and 52.5±9.8 for boys, P= 0.007. In narration group mean score for girls was 52.5±8.3, and for boys it was 49.4±12.5, P= 0.007. Parents' education level was significantly effective in the scores, so that there was difference between those fathers with education level below high school diploma and above it, and in mothers' with master level and high school diploma and below high school level, P= 0.009, and 0.001, respectively.

Conclusion: teaching traffic rules in pre-school age group particularly with the use of auditory and visual methods which are more attractive to this age group, may be effective in reducing traffic accidents.

Key Words: Traffic accident; Education; Kindergarten; Narration; Poster presentation

Presentation: Poster