Abstract: Introduction: Leishmania is one of the diseases with priority for controlling and fighting, not only for disturbing appearance and appearing scar in some areas like face and hand but also for having high expenses of incoming medicines and treatment. Training and promoting the level of knowledge of people for personal maintenance in endemic region are one of the most important strategies for coetaneous Leishmania. Shahid Babaie airbase is one of the most important centers of Leishmania in Isfahan province because of proximity to hyper endemic regions of Leishmania and also for urbanizing in this region and residency of migrant militaries and their families. The aim of this study was to examine the effect of health education based on health belief model HBM, BAZNEF, PRECED in promoting preventive behaviors of Coetaneous leishmaniasis.

Method: In this quasi-experimenta study, the inhabitants from Shahid Babaie airbase in Isfahan were participated and sampling method was census of all guidance and high school students and their mothers. Three educational sessions and a questionnaire was designed based on the HBM, BAZNEF, PRECED model, which was completed before training and 2 months after training by interview. A checklist is prepared and at the end they are completed by educational persons, hygienic stuff in the region and teachers with training programs checklist divided to three levels (good, intermediate, well) for analyzing data. Data was analyzed using SPSS 15 software and paired T-test.

Result: About 450 students and 200 mothers participated in this study. There were significant differences between all scores of model components and knowledge before and after educational intervention. There was a significant correlation between sex and the knowledge score and whole component of model. Female students' got higher scores than males. Those students and mother who infected before with Coetaneous leishmaniasis was gotten higher scores in whole variable of model but the knowledge score was not different with those who weren't infected. Evaluation score was considering well.

Key word: education, preventive behavior, coetaneous leishmaniasis

Presentation: Poster