

Abstract

Background and Objective: AIDS is one of the chronic and infectious diseases. If HIV / AIDS is not detected, it can lead to a lot of damage. The best way to control HIV disease is its early diagnosis, which is carried out by the HIV counseling and testing centers and mobile teams. Therefore, due to different interventions for the diagnosis of this disease, it is necessary to use economic evaluation studies to select the best intervention. Therefore, the present study aimed at the cost effectiveness of the process of identifying new Acquired Immune Deficiency Virus cases by Using Rapid HIV Diagnosis Tests in Chabahar.

Method: The present study is an economic evaluation that was carried out on a cross-sectional basis in a one-year time horizon. The population of the study consisted of all HIV counseling and testing centers and mobile teams in Chabahar city, which included 15 fixed centers and 12 mobile team counseling and testing centers for HIV Which were studied censually. In this study, costs from the perspective of the health system included direct and indirect costs and also the outcomes included the number of people identified with HIV positive and DALYs averted. Finally, by analyzing the sensitivity analysis of the uncertain parameters influence on the results of the model was evaluated.

Results: The findings indicated that the intervention of fixed centers and mobile teams identified 15 and 27 HIV positive individuals, respectively, and also the number of DALYs averted by these centers was 22.55 and 22.49, respectively. The total cost of fixed centers and mobile teams was equal to 2,522,550,706 rials and 296,793,703 rials, respectively. The incremental cost effectiveness ratio was 22,816,924 Rials, which revealed that mobile teams intervention is cost effective. The results of sensitivity analysis showed that the model is sensitive to the probability of negative test parameters in fixed center.

Conclusion: The result of the present study was that the intervention of mobile teams counseling and HIV testing than the intervention of fixed centers counseling and HIV testing was cost effective. This research is a good guide for policy makers in the health system to make the right decisions and allocate resources optimally.



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Title

**The cost effectiveness of the process of identifying new Acquired Immune
Deficiency Virus cases by Using Rapid HIV Diagnosis Tests**

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