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اصول تنظیم قراردادها

آموزش مهارت های کاربردی در تدوین و چاپ مقاله
Lack of HIV infection among truck drivers in Iran using rapid HIV test

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Abstract

BACKGROUND: The aim of this study was to evaluate the prevalence of HIV infection in Iranian long distance truck drivers using rapid HIV test.

METHODS: The study included 400 consecutive participants in Bazargan city, north-west of Iran in the late 2008 and the early 2009.

RESULTS: No HIV infection was observed among these long distance truck drivers.

CONCLUSIONS: Although results of this study is plausible compared to other similar studies, repeated surveys are necessary to know the trend of HIV infection in truckers in Iran.

KEYWORDS: Human Immunodeficiency Virus, Truck, Automobile Driving.

Methods

In this study, 413 consecutive LDTDs (all men) were approached from November 2008 to January 2009. Of these, 400 participants consented to attend anonymously. This study was approved by institutional review board (IRB) of Tehran University of Medical Sciences (TUMS) and was done in Bazargan city located in north-west of Iran, at the border of Iran and Turkey. The truckers were traveling to Middle East and European countries and they were approached while waiting at the border. Basic demographic information (age and marital status) was recorded in data collection sheet. After obtaining verbal consent, 40 micro liter of blood was collected by sampler for rapid HIV test (KHB, Inc., Shanghai, China). The test
Results
Among the participated truckers, the mean age was 36 years (range: 22-64 years), and 324 (81%) were married. No HIV positive test was found among this sample of Iranian LDTDs in the Iran-Turkey border.

Discussion
In this study, no HIV positive test was found. Possible reasons for this result include: 1) there is truly very little HIV infection in Iranian LDTDs, ad 2) this sample represents lower risk LDTDs compared to samples of LDTDs in other countries. Although in this study positive test results was not found, other studies have shown some positive results (Table 1). A major limitation of this study is that no question was asked about risk behaviors among these participants. Despite this limitation, the current study provides the first estimate of HIV seroprevalence among LDTDs in Iran. Regarding similar studies in other countries (Table 1), periodical tests in this sentinel population along with necessary training in order to improve insight, knowledge and preventive measures about HIV/AIDS appear to be essential. Future studies are suggested to evaluate behavioral risk factors in truck drivers regarding paucity of data in this population in Iran. Finally, expanding similar studies at other borders which may attend more high risk LDTDs is suggested too.

Table 1. Prevalence of HIV infection among truck drivers in other studies

<table>
<thead>
<tr>
<th>Country</th>
<th>Sample size</th>
<th>Prevalence</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Africa</td>
<td>970</td>
<td>27%</td>
</tr>
<tr>
<td>Kenya</td>
<td>283</td>
<td>26%</td>
</tr>
<tr>
<td>India</td>
<td>2066</td>
<td>4.6%</td>
</tr>
<tr>
<td>Brazil</td>
<td>300</td>
<td>1.3%</td>
</tr>
<tr>
<td>Tongling, China</td>
<td>550</td>
<td>0%</td>
</tr>
</tbody>
</table>

Conclusions
Our data shows that HIV infection prevalence in LDTDs, as a low risk sentinel population, performed based on WHO protocols is less than 1%. This rate is lower than most other similar subpopulations studied. Repeatedly such surveys help to sketch better picture of HIV infection trend in Iranian truckers.

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Conflict of Interests
Authors have no conflict of interests.

Authors' Contributions
HJ carried out the design, and participated in proposal and manuscript preparation. SASA and PK participated in data gathering and proposal preparation. GREJ participated in data gathering and prepared the data analysis. MR and MH participated in manuscript preparation and worked as consultants. AS and MS participated in manuscript edition and worked as consultants. AHS participated in data gathering, prepared the manuscript and is the corresponding author. MM participated in manuscript edition and worked as a consultant. All authors have read and approved the content of the manuscript.

References


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