Identifying and Prioritizing Barriers to Health Tourism
Using the Analytical Hierarchy Process

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Received November 6, 2016; Accepted January 18, 2017; Online Published February 19, 2017

Abstract
Introduction: Iran offers many advantages for health tourism, e.g., low costs, high quality healthcare, qualified doctors, and abundant natural attractions, but there are also obstacles to the development of health tourism in Iran. This study aimed to identify and prioritize the barriers to health tourism in hospitals affiliated with Tehran University of Medical Sciences.

Methods: This cross-sectional study was conducted in the first 6 months of 2016. Six main components were identified based on experts’ opinions; then, based on these components, a questionnaire for pairwise comparison was produced and completed by the same experts. The analytical hierarchy process (AHP) model was used to prioritize the identified factors.

Results: Results showed that among the barriers to health tourism in the investigated hospitals, the most important obstacle is the unfamiliarity of medical staff with foreign languages with a weight of 0.268. Lack of manpower and inappropriate physical were ranked second and third in priority with weights of 0.214 and 0.157, respectively.

Conclusion: Considering the available capacities and potentials, effective and impressive steps can be taken to economically develop the medical tourism industry in Iran.

Keywords: Health tourism, AHP technique, Iran


Introduction
Medical tourism as a branch of health tourism represents a growing industry that creates opportunities for patients to obtain medical services by traveling beyond their national borders.1 Due to the rises in costs and competition in the healthcare sector,2 the tourism industry has become one of the largest industries in the world, and an intense rivalry exists among many countries to attract tourists.3 According to the World Bank, the third largest investment arena in the world is related to health tourism.4 Globally in 2007, revenues from health tourism exceeded $60 billion,5 and this number rose to $100 billion in 2009.6 Developing countries are good health tourism destinations because of lower costs for medical services.7 Long queues for treatment, especially in Canada, Britain, and Australia,8 and a lack of health insurance for some services like cosmetic surgery create a willingness in people to travel to developing countries for medical services.9 Countries such as India, Thailand, and Singapore have a bright future in the field of health tourism. The lower cost of treatment in these countries can make them among the first countries in tourism.11 Among developing countries, Iran is one of the active centers for health tourism in the Middle East.12 Because of Iran’s advantages for health tourists such as low costs, the high quality of healthcare, qualified doctors, and abundant natural attractions, the country can take advantage of health tourism.13 However, there are obstacles to the development of health tourism in Iran. Previous studies have determined the factors that constitute the most important barriers to health tourism, and they include laws and regulations, government support, the local community’s costs and health requirements,14 a lack of space and proper medical facilities,15 a shortage of skilled human resources in some medical disciplines, a lack of ISO and JCI credentials to attract foreign patients, reluctance to market healthcare at the university level,16 a lack of medical specialists and markets, the lack of an information technology infrastructure, and a lack of advertising in medical tourism.16 University hospitals are the biggest units affiliated with the
Health tourism is one of the main reasons Arab Muslims travel to Iran. More than 70% of patients who come to Iran originate from countries such as Saudi Arabia, Iraq, and some other countries. In this study, the compliance rate was 0.7, which represents the reliability of the findings. Results showed that among the barriers to health tourism in the investigated hospitals, the most important obstacle was unfamiliarity of medical staff with foreign languages with a weight of 0.268. Lack of manpower and inappropriate physical space were ranked second and third on the priority list with weights of 0.214 and 0.157, respectively.

Discussion
Health tourism is a growing and important issue in Iran, although the infrastructure needed to develop this type of tourism is insufficient. There are many challenges and obstacles in this field. The present study used the analytical hierarchy method, which gave highly accurate results, to identify barriers to health tourism in hospitals affiliated with Tehran University of Medical Sciences. Among the barriers identified, the most important ones were the unfamiliarity of medical staff with foreign languages (0.268), a lack of manpower (0.214), and inappropriate physical space (0.157). The lack of foreign language skills in nurses and hospital staff, especially English and Arabic, had a high value for patient absorption.

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Azerbaijan, Pakistan, and Oman. Having English and Arabic translators could be useful in resolving this barrier, and this issue has been emphasized. A lack of manpower was identified as the second obstacle in the studied hospitals. Offering appropriate healthcare services requires sophisticated and sufficient manpower, and this must be solved quickly; a shortage of manpower can lead to a decline in the quality of health services. Manpower shortages and a lack of specialized capabilities among medical staff are known weak points in the expansion of Iran's health tourism.

One other issue in medical tourism is designing the hospital space. The construction of hospital hotels and the creation of an appropriate atmosphere for people who accompany the patients are wise actions in developing health tourism and suggest a comprehensive viewpoint of health tourism. The lack of an appropriate website for advertising on the Internet is another obstacle identified in this study. In addition to information regarding doctors, medical expenses, and the durations of treatments that hospitals should have registered in their systems, it is necessary to provide potential patients with a comprehensive database containing authentic agency and hospital information which can help the health tourist.

Conclusion
Considering the available capacities and potentials in Iran, effective and impressive steps can be taken to economically develop the tourism industry, such as increasing investments and collaboration between universities and other relevant organizations.

Authors’ Contributions
All authors significantly contributed towards this study.

Conflict of Interest Disclosures
The authors have no conflicts of interest.

Ethical Approval
Not applicable.

Funding/Support
The authors received no specific funding for this work.

Acknowledgments
The authors thank all persons who participated in this study.

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