

Survey on the status of non-structural retrofitting of Kerman's teaching hospitals against natural disasters and proposing the model, (a mix method study)

Abstract:

Introduction: continuous services provision of a hospital before and after a disaster is one of the most prominent issues that all people, especially the authorities must take into huge consideration. Concerning the experiences of previous earthquakes, the role and importance of nonstructural components becomes increasingly clear in the uninterrupted services of hospitals. In this study, non-structural retrofitting status of Kerman teaching hospitals was evaluated against natural disasters. It also uses the findings of the qualitative study, the proposed Comprehensive Disaster Management and events as well as non-structural retrofit model is presented.

Methodology:

The present descriptive study was carried out cross sectional in the second half of ۱۳۹۴. the statistical population consisted of all Kerman teaching hospitals. The research instrument was World Health Organization/Pan American Health Organization (WHO/PAHO) standard checklist. Data analysis was carried out using descriptive statistics through SPSS ۱۹. In the qualitative phase, information from experts were collected by semi-structured interviews and the data were coded and analyzed by using MAXQDA software.

Findings:

One hospital had a low retrofitting level, ۳ hospitals had an average level and ۱ had a high level. In the examined hospitals in this study, the medical gas section had the lowest preparedness against the natural disasters, while the office, warehouse and furniture section had the highest resistance. Generally, the non-structural retrofitting status was ۵۰٪ in one hospital and was between ۶۵ and ۸۵٪ in other hospitals. Findings in the qualitative were classification into ۳ groups; the factors affecting the non-structural retrofitting and features of comprehensive management Disasters model.

Conclusions:

Generally, the retrofitting status of hospitals was not at the ideal condition, most hospitals were in average condition. Concerning the high risk of hospitals in the disasters, it is necessary that senior executives and managers of Kerman Province and Kerman University of Medical Sciences take some measures to retrofit these buildings and to reduce the risk of vulnerability. On the other hand a model that consistent with local conditions and needs of the area is required for disaster preparedness program.

Key words: retrofitting, non-structural components, teaching hospitals



Kerman University Of Medical Sciences

School of Management and Medical Informatics

In Partial Fulfillment of the Requirements for the Degree

Master Of Sciences of Health Care Management

Title:

**Survey on the status of non-structural retrofitting of Kerman's teaching hospitals
against natural disasters and proposing the model, (a mix method study)**

By:

Seyed Mobin Moradi

Supervisor:

Dr. Mahmood Nekoie Moghadam

Advisors:

Dr. Mohammadreza Amiresmaili