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Study of Space Layout in Portable Hospital Based on Triage in Crisis-Case Study in Iran

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Abstract:

Based on The Center for Research on the Epidemiology of Disasters (CRED) information, Iran is ranked 14th for disasters worldwide. Furthermore, its location on earthquake belt and worn out structures, limits the effective performance of hospitals in disasters which necessities mobile systems to compensate health services in the affected area. In the present study, the importance of field hospitals in different disasters is evaluated using scientific library and internet databases. Finally, based on different triage models, a spatial-motion diagram for field hospitals has been redesigned.

Keyword: EBD, Coordination design with disaster, Mobile hospital, Health architecture

Introduction

More than 95% of disaster mortality is occurring in developing countries and the consequences are 20 times larger compared to developed countries. Based on The Center for Research on the Epidemiology of Disasters (CRED), Iran ranked as 61st regarding the risk of natural disasters ("The Center for Research on the Epidemiology of Disasters ", 2017). Likewise, figure 1 puts Iran at highest risk of earthquake category. Assessment the performance of Kerman province hospitals during and after Bam earthquake, which is considered the deadliest disaster of contemporary era in Iran, clearly shows that necessary construction measures has not been considered which caused several problems such as: