

Investigation of Information Security Incident Management Based on International Standard ISO/IEC 27002 in Educational Hospitals in 2014

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Abstract : Introduction: The Information security incident management guidelines was been developed to help hospitals to meet their information security event and incident management requirements. The purpose of this Study was to investigate on Information Security Incident Management in Isfahan's educational hospitals in accordance to ISO/IEC 27002 standards. Methods: This was a cross-sectional study to investigate on Information Security Incident Management of educational hospitals in 2014. Based on ISO/IEC 27002 standards, two checklists were applied to check the compliance with standards on Reporting Information Security Events and Weakness and Management of Information Security Incidents and Improvements. One inspector was trained to carry out the assessments in the hospitals. The data was analyzed by SPSS. Findings: In general the score of compliance Information Security Incident Management requirements in two steps; Reporting Information Security Events and Weakness and Management of Information Security Incidents and Improvements was %60. There was the significant difference in various compliance levels among the hospitals ($p\text{-value} < 0.001$). Conclusions: According to ISO/IEC 27002 standards, none of the hospitals were completely complied with to present the best possible Information Security Incident Management. One of the most important aspects to consider when developing the information security incident management policy is to define the roles and responsibilities of the information security incident response team.

Keywords : information security incident management, information security management, standards, hospitals

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