P205

The Usability Evaluation of Web Base National Multiple Sclerosis (MS) Registry of Iran

Mahdieh Mokhberdezfuli[1], Samira Navardi[1], Mohammad Ali Sahraian[1], Amir Reza Azimi[1], Abdoreza Naser Moghadasi[1]

[1]Multiple Sclerosis Research Center, Neuroscience Institute, Tehran University of Medical Sciences, Tehran, Iran, [2]Department of Health Information Management, School of Health Management and Information Sciences, Iran University of Medical Sciences, Tehran, Iran

Background: Patient registry system is a decision management tool. The main goal of registries is monitoring epidemiological of trends and other medical aims like treatment, diagnosis and care research (1). Evaluation is the most important step in developing registry systems that can result in improvement of quality and functionality(2).

Objective(s): The aim of this study is to improve quality of registry system by evaluating the usability of national Multiple Sclerosis (MS) registry of Iran.

Method(s): We used the standard Questionnaire for User Interaction Satisfaction (QUIS) version 5.5 provided by the University of Maryland that is validated in Persian language and its reliability is (α=0.94). It is 9 Likert scale highest to lowest questionnaire with 27 questions consists of five parts, "overall reaction to the software" (6 question), "screen design and layout" (4 question), "terminology and systems information" (6question), "learning" (6question), and "system capabilities" (5question) (3, 4). Users included neurologist and registrars who have been worked with MS registry in last 6 months regularly, participated in this study.

Result(s): In total, 24 users at the age range of 25 to 50, from six states of Iran participated in this study. The total mean value for users was 7 in the assessment, the result indicated that the best part of MS registry in users opinion was "screen design and layout" (mean 7.6 ± 1.15). The part with the least scores was "overall reaction to the software" (mean 6.87 ± 1.11).

Conclusion: We evaluated the usability of a new web based national Multiple Sclerosis (MS) registry of Iran. This can help to improve the quality and functionality for the registry system also helping to be more user friendly for the stakeholders and eliminate system problems.