

Comparison of evaluation of web presentations of Czech medical institution and foreign radiological educational websites

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Introduction: Our work is a follow-up to studies publicized at Mednet 2003 [1] and Mednet 2004 [2] about evaluation of presentations of health related websites. Last year we presented evaluation of only Czech websites. Aim of current work was to evaluate methodology of Rankmed (automated system for evaluation of websites) on non-czech language websites. Main inclusion criterion was a radiological educational content of the website (whole or a considerable part). Secondly, resources were selected with respect to covering a whole spectrum of online CME resources (from big portals to one-man-sites). 10 resources were selected. We compare this group with previously evaluated groups of Czech websites.

Methods: We appraised 10 English-language websites (10 radiological educational websites) and 54 Czech health related websites (17 hospitals, 8 medical faculties, 16 firms and 13 portals). For evaluation was used methodology of system for automatic evaluation of web presentation – Rankmed. Methodology of evaluation is based on 20 parameters, which are divided in 4 groups describing different formal aspects - Presentation, Navigation, Function and Credibility). Statistical significance of differences was tested.

Results: We stated similarity between new tested group (radiological CME resources) and previously tested four Czech groups. The most similarity was reached with Portals (9 parameters) and with Faculties (8 parameters); similarity with other two groups - hospitals and firms – was very low (2 both). Several differences was found in comparison with mean value of all Czech resources, the radiological educational resources obtain notable better score at parameters of Presentation and at several parameters of Navigation (number of steps needed to reach defined information, highlighting of links) and Credibility (presence of authorship and date of publication). Substandard score was reached in parameters (overlapping of a content of the page out of the screen, presence of foreign language version and number of dead links). The correspondence between radiological educational websites and Czech sites was reach at parameters availability (very good for both groups, about 99,4%) and also at relatively poor faultless of htmlcode.

Conclusions: We proved that there are significant differences and similarities among web presentation of tested group of radiological educational websites and Czech health related websites. The interesting finding is similarity among radiological educational websites and Czech health portals and educational institutions (medical faculties). Authors consider this finding is an evidence of possibility of using of system Rankmed for evaluation of foreign language websites, because evaluated foreign websites were, in fact, educational portals.

Keywords: Internet, Evaluation, Quality Indicators

References

- [1] T Adla, P Kasal, A Janda, M Hladíková, JP Naidr, J Feberová: Weights of criteria for evaluation of health resources on the web. Mednet 2003, 8th World Congress on the Internet in Medicine, Geneva, Switzerland, In: Technol Health Care. 2003;11(5):367-368.
- [2] T Adla, P Kasal, M Hladíková, A Janda, JP Naidr, J Feberová, P Kubů, R Potůčková: Use of the automated quality evaluation system for the comparison of health care web pages. Mednet 2004, 9th World Congress on the Internet in Medicine, Buenos Aires, Argentina, In: Technol Health Care. 2004;12(5):363.