



Moodle H5P Essay

This is a short essay task with automatic checking. Amount of characters 2000-2500 (= about 500 words). This is an individual task. Suspicions of plagiarism are handled according to University of Oulu instructions.

How did physicians experience different EHR and information systems with the best performing (ESKO) and the worst performing (Mediatri) EHR? How has the average score of user experience changed in each of the seven summary variables between years 2010, 2014, and 2017?

Link to figure:

https://sampo.thl.fi/pivot/prod/en/steps2/laakari/summary_tiiviste3?jarjestelma_0=318854&jarjestelma_0=318897&jarjestelma_0=318936&aika_0=318935

- IS = information system (umbrella term, includes EHR) (= in radar map also referred as system)
- Change the year for observation in the left panel drop-down-menu.
- The radar map for mean of all information systems used in Finland (ESKO, Mediatri, Lifecare, Pegasos, etc...) is visible to give overall insight of the values for all systems.
- Note. Read the description of the sum variable carefully. As a clarification: in answers' Likert scale 1 = totally agree, 5 = totally disagree, so the area inside the radar map includes percentage of respondents whose means are 1-2.5.
- Note. If you like to view your answer later, save the answer to your own computer (e.g. to Word document).

Answers:

keyword	variations	Feedback if the keyword exists in text
physician	health care professional, healthcare professional	Data is based on answers from physicians.
information system	IS	The data presents sum variables by information system as a radar map.
electronic health record	EHR, EPR	The data presents sum variables by information system as a radar map, EHR being one of the ISs.
ESKO		The overall development for ESKO shows that user experience has increased in the course of time. Some summary variables show greater rise and some slighter rise. ESKO gets its best values for technical functioning and ease to use. Support for communication differs most clearly from other variables' behaviour as it stays in the same mean level than of other systems.

Mediatri		The overall development for Mediatri shows that user experience peaked as better in 2014 but returned back to lower levels in 2017 (in some summary variables a bit higher and in some a bit lower compared to 2010). Mediatri gets its best values for technical functioning and for effect increasing the quality of work. Collaboration and communication values seems to be better compared to mean of all systems.
technically functioning	technical function, technical functionality	The technical functionality of ESKO has risen steadily between 2010 and 2017 about 15 %p. In 2017 ESKO shines as the leader of the systems since 65% of physicians experienced that the technical functionality of the systems is good. Technical functionality of Mediatri has fluctuated between 35% and 41% so there is no visible development.
easy to use	ease of use, easy usage, easiness of use	The overall experience is that the ease of use for EHR systems has remained the same or even slightly decreased between 2010 and 2017. About 40% of physicians using ESKO thought that the system is easy to use. The ease of use for Mediatri has fluctuated and the long-range development is towards poorer.
grade	grading	The overall grading for ESKO and Mediatri show similar lines as the overall development, as might be expected. In 2017 for ESKO almost 60% but for Mediatri only 30% of physicians gave 8 or higher school grade.
collaboration	co-operation, collaborating	The long-term development of support for collaboration is positive. However, the level remains still rather low with only slightly under 20 % of the physicians feeling that ESKO and Mediatri systems support collaboration in 2017.
strain		Change can't be interpreted since strain was first measured in 2017. In 2017 about 70% of the physicians experienced that information systems cause strain, which seems a really high number. Note. This variable had to be interpreted to opposite direction than other variables since it is a negative statement. The area inside the radar map implies positive experience towards the system.
communication	communication	The low level of support for communication implies that current EHR systems don't include tools for communication or the tools available don't respond the need that communication requires. Mediatri beats ESKO in support for communication, however, the latest direction of Mediatri's development seems to be worsening.
quality of work	work quality	In the long run between 2010 and 2017 the physicians feeling for 'IS increases my quality of work' has increased. For all under interpretation it seemed to burst at first between 2010 and 2014. For ESKO the course kept rising but for Mediatri the change turned around again and fell 9%p to year 2017 so it is hard to tell, to which direction the development will keep going. However, it is notable that the variable as such does not tell that compared to what (e.g. no EHR but only paper) or in which ways (e.g. better patient record with the help of EHR) the quality of work increases by using EHR systems. That would need further investigation of the specific questions with which the variable is constructed.