

ICT BASED IMPLEMENTATION OF ERGONOMICS STANDARDS IN ORTHOPAEDIC SURGERY. THE PERSPECTIVES AND THE ROLE OF TRAIN4ORTHOMIS ONLINE COURSE

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ABSTRACT

The article presents the research outcomes on ICT-related solution for improving working conditions while performing hip and spine orthopaedic surgeries. The need of implementing ergonomics rules to orthopaedist's practice is substantiated by the survey outcomes conducted among international group of orthopaedic surgeons who indicated the presence of work related musculoskeletal disorders (WMSDs). Additionally they emphasized different factors contributing the mentioned health ailments, among of which the most important are static/ awkward body postures and repetitive movements.

One of the reasons pointing out the poor ergonomic conditions of health care practitioners is the lack of proper and useful knowledge. Simultaneously they declared to have no trainings related to ergonomics in the last two years. On the other hand surgeons usually have no free time to participate in additional and peri-medical trainings.

In order to overcome these problematic circumstances there is propose an innovative approach to improve ergonomics in orthopaedists practice which is based on international and online training course. This new approach is related to selection and combination of specific features groups: possible short duration of the training; contents focus on practice and based on knowledge visualization; mobile and open access to the training; knowledge verification based on students' preferences.

KEY WORDS

ICT factors; international e-learning; ergonomics; working conditions improvement; orthopaedic procedures; procedural knowledge

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