

Adaptation study of computer workstation checklist for Lithuanian enterprises

Study implementation period: 2018–2019

Introduction. The display screen equipment (DSE) workstation checklist can be used by employers who need to comply with the Health and Safety. It can be used as an aid to risk assessment of risk factors associated with musculoskeletal disorders related to computer work. Such a checklist must be valid and reliable. The original checklist was developed by the United Kingdom Health and Safety Executive practitioners' experience in the office ergonomics.

Aim of the study – to adapt a display screen equipment (DSE) workstation checklist to Lithuanian enterprises and to evaluate the content validity and reliability of the checklist.

Methodology. The display screen equipment (DSE) workstation checklist is composed of 33 items related to risk factors in six areas, with 'yes'/'no' tick boxes: keyboards, mouse and trackball, display screens, software, furniture and work environment. First of all, two independent translators translated a checklist to the Lithuanian language. Differences between the translations were considered. A panel of 16 experts validated the display screen equipment (DSE) workstation checklist. The Content Validity Index (CVI) was calculated after receiving all correspondence regarding content validity for each item of the checklist. A total of 33 computer professionals participated in the inter-rater reliability study. 2 raters assessed the ergonomic practice of the computer professionals using the checklist. Observations were recorded independently and not discussed among the raters.

Results. Results from the panel of experts yielded 0.940 overall Content Validity Index. Inter-rater reliability ranged from moderate to perfect (kappa 0,615–1,000).

Conclusion. The display screen equipment (DSE) workstation checklist has strong content validity and moderate to perfect reliability between two independent raters.

For more information contact: Jūratė Tamašauskaitė, Institute of Hygiene, Occupational Health Centre, Division of Research, phone no. +370 5 212 2589, e-mail: jurate.tamasauskaite@hi.lt.