## Content Validity of Online Self-report Questionnaire on Computer Work Related Exposure (OSCWE)

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#### ABSTRACT

Working on a computer for four to six hours a day can lead to high incidences of work-related musculoskeletal disorders (WMSDs). Several factors of WMSDs including personal, work characteristics, work environment and stress. Several tools have been used to investigate incidences and factors affecting WMSDs. Most tools need experienced investigators to perform data collection and they have not covered risk factors. There is an Online Self-report Questionnaire on Computer Work related Exposure (OSCWE), which can assess risk factors of WMSDs. But, its internal consistency was low in some items. This study aimed to revise the OSCWE and investigate its content validity in order to use it in more general target groups. A new version of OSCWE was developed by 3 physical therapy lecturers involving teaching of ergonomics. The steps of developing comprised of reviewing literature, revising questionnaire and investigating content validity for 2 rounds by 10 specialists in ergonomic field. The items with low internal consistency were modified and add items to identify level of physical activities and work station were included. Snowball sampling and consensus methods were used. The test was performed two rounds by selecting 5-likert score of two questions of each item in OSCWE. Those questions were "Does the item correspond with the OSCWE's objective?" and "Should this item be in questionnaire?". Descriptive analysis and Fleiss kappa were calculated for content validity in each item that correspond with the objectives and suitable to be in the new version of OSCWE. Ten specialists who validated the content had averaged years of engonomic experience 15.3±9.04 years with ranged 5-29 years with educational qualification at doctoral degree. The new version of OSCWE was found that Kappa value of two questions in two rounds were between 0.52-0.61 when assessing all domains. The results showed moderate to substantial agreement. Moreover, Kappa values of two questions in two rounds were between 0.43-0.81 when assessing each domain. The results showed moderate to almost perfect agreement. Exceptionally, Kappa value of work environment of the second question "Should this item be in questionnaire?" of first round was 0.29 which were rated as fair agreement. The average score of each item of OSCWE was found to correspond with the objective and should be included in the questionnaire, except, the personal domain. The mode values of all Items were more than and equal to 3 score which were fair to good level. To be discussed, this questionnaire was developed from the first version of OSCWE which were used in computer workers. The first version had low internal consistency of some items. While this version tried to improve validity of those items which should be more beneficial to determine factors affecting WMSDs, physical activity level, and disorders among computer users in more general population. This study found that OSCWE questionnaire was accepted for its content validity in each item of the five domains. But, some items should be improved for more acceptability level and general use.

Keywords: Computer worker, Musculoskeletal disorder, Questionnaire, Self-report, Validity

#### 1. Introduction

As computers and technology has become a part of life. Offices and industries have a higher rate of computer use to increase production and work effectiveness (Wahlstrom, 2005). Working on a computer for four to six hours a day can lead to high incidences of work-related musculoskeletal disorders (WMSDs) (Puig et al., 2015; Shrivastava & Bobhate, 2012). WMSDs have symptoms of pain from either degenerative change, inflammation of nerves, joints, vessels, tendons, muscles, and bones from cumulative trauma (Orbinski, Duxbury, & Conklin, 2014). Neck and back pain were reported in high prevalence of WMSDs (Griffiths et al., 2012; Janwantanakul et al., 2008). There are several factors affecting WMSDs including

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