Sickness absenteeism in Brazilian nursing staff

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Objectives The absenteeism in nursing staff has been the focus of many studies in different countries revealing a serious problematic in occupational health. The absenteeism according the lost workdays highlights the impact on patient care and the costs for the health institutions. Aimed analyse the sickness absenteeism in Brazilian nursing staff.

Methods Descriptive and quantitative study, accomplished after approval by the Ethics and Research Committee, was conducted in seven hospitals located in different Brazilian geographic regions, which constituted the intentional sample. The data were collected by Surveillance System of the Health Nursing Workers –SIMOSTE, on line system, validated and made available to record and capture data about the nursing health problems related to work. The data were sent by the settings, treated quantitatively and analysed by descriptive statistic.

Results Of the 890 occurrences captured by SIMOSTE in one year, there were 8081 days of sick leave, caused by mental disorders (30.75%), work-related musculoskeletal disorders (19.20%), and consequences of external causes (14.90%). The sick leaves, although work-related, were most recorder as medical licences (83.00%). This situation is extremely worrying, due to work overload that generate these absences to nursing staff, and the impact on quality of care provided to patients.

Conclusions The sick leave days are considered days lost. It means that in one year were 22 years of work. The mental disorders and diseases of the musculoskeletal system were the main causes of absence, confirming the pattern of sickness among nursing staff. This study allow us to disseminate advances in nursing research related to the health system and health services strategies.

Session: G. Hazard identification (psycho social)

50 IMPROVING SAFE WORK PERFORMANCE IN UNDERGROUND COAL MINING OPERATIONS BASED ON WORKERS’ OPINIONS

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Objective This study examined the opinions of coal mine workers and managers in relation to safety rules and regulations and safe work procedures in three underground coal mines located in Semnan province in Iran.

Methods Individual interviews were used to find out the opinions and attitudes of workers and managers through the use of a structured questionnaire. Safety staff carried out interviews mainly investigated the level of workers’ awareness and knowledge on rules and regulations and safe work procedures concerning general and specific tasks. Our survey was based on 195 coalmine workers, aged 27–58 years, and 23 managers and supervisors.

Results The study showed that 45% of workers had limited awareness about the general rules and safe work procedures pertaining to mining activities and to their individual tasks. Workers cited fatigue, time saving and the impracticability of rules and regulations as the main causes for ignoring rules and regulations. More than 60% of coal miners stated that they had no opportunity to be involved in making rules and regulations. Managers and supervisors believed that large proportions of accidents and injuries are avoidable as there are written rules and safe practices for many situations and practices. They also commented that in a harsh environment like underground coal mines, risk taking is a common habit. Managers mentioned that reaching production goal is essential for the mine’s survival.

Conclusion We concluded that lack of awareness and knowledge, fatigue, the priority of production pressure, and miners’ problems with rules were the main causal factors for violating and ignoring rules and regulations and that the management should practically demonstrate its commitment to safety and to take measures to improve the awareness and knowledge of workers and involve them in planning rules, regulations and safe work procedures.

51 IMPROVING THE INDIVIDUAL WORK PERFORMANCE QUESTIONNAIRE USING RASCH ANALYSIS

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Objectives Recently, the Individual Work Performance Questionnaire (IWPQ) version 0.2 was developed. One of its main purposes is to detect changes in individual work performance, for example in worksite health promotion interventions. The IWPQ is a generic instrument, i.e. suitable for blue, pink, and white collar workers, that was constructed using Rasch analysis. The IWP consists of three short scales (task performance, contextual performance, and counterproductive work behaviour). However, it appeared that there were insufficient difficult items for the task and contextual performance scales, and insufficient easy items for the counterproductive work behaviour scale. Thus, targeting was suboptimal. The goal of the current study was to improve targeting of the IWPQ.

Methods It was hypothesised that improved targeting could be achieved by formulating additional items that cover the locations of the scales where there were an insufficient number of items. The IWPQ version 0.3 (including additionally formulated items) was tested in a sample of 1,424 Dutch blue, pink, and white collar workers. The IWPQ 0.2 and 0.3 were compared on model fit, targeting, and reliability.

Results Additionally formulated items that showed misfit or did not improve targeting were removed from the IWPQ 0.3, resulting in a final IWPQ 1.0. The scales of the IWPQ 1.0 showed good model fit and reliability, and satisfied key measurement assumptions. Targeting improved for two out of three scales. Finally, calculation and interpretability of scores were addressed.

Conclusion Compared to its previous version, the final IWPQ 1.0 showed improved targeting for two out of three scales. As a result, it can more reliably measure workers at all levels of ability,