AN ERGONOMICS STUDY IN REFUSE COLLECTION TASKS: USING PLASTIC BAG

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ABSTRACT
Refuse collection is a key point to reach a cleaning and aesthetic of a city. However, a poor refuse collection task let collectors to suffer from much musculoskeletal disorders. In this study, we attempt to discover the effect of refuse collectors during refuse collection tasks. An ergonomics experiment designed as psychophysical approach to explore the effect of plastic bag type and carrying distances on maximum acceptable weight of carrying (MAWC), heart rate (HR), and rating of perceived exertion (RPE) on refuse collectors. The appropriate set was determined by ANOVA and Duncan multiple comparison test. The result showed that the short distance (5 meter) and handle plastic bag are benefit to refuse collection tasks.

Keywords: Refuse collection, musculoskeletal disorders, MAWC, HR, RPE

REFERENCES


