

ABSTRACT

THE EFFECTS OF MANUAL PATIENT HANDLING NMR TOOL (A Case Study for the Nurses Towards the Potential Risk and Complained of Musculoskeletal Disorders (MSDs) of Muji Rahayu Hospital)

The effects of manual patient handling NMR tool towards the risk and complaints of *Musculoskeletal Disorders* (MSDs) for the nurses of Muji Rahayu Hospital.

The research was done by using *Quasi Experimental* design. The samples of the research is nurses serving at Emergency Room, Space Operations Surgery, and Inpatient room in Muji Rahayu Hospital Surabaya. The sampling technique was done by using the total of treatment replications from the 3 units. Data collection was done by direct observation of REBA calculation method with videos and photos, and using *Nordic Body Map* assessment table instrument. Data was analysed by using descriptive statistic and paired t-test..

Analysis with paired t-test showed that there are significant difference between body posture assessment before and after using the manual handling tool ($p < 0.000$), and complaints against MSDs before and after using the manual handling tool ($p < 0.000$). Analysis with Kruskal-Wallis test comes with the result of significant difference before using the tool with REBA method, however, no difference was found on post-test. There appears to be a difference between the 3 units and gender comparison

Manual patient handling NMR tool proven to improve the body posture with risk of MSDs from high to low and reduce the complaints of MSDs from mild to low, especially in the Emergency Room which require high patients mobilization.

Keyword : MSDs, Manual Patient Handling NMR, health workers