Analysis of work attitudes and musculoskeletal complaints in laundry workers in bandar kediri

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Analysis of work attitudes and musculoskeletal complaints in laundry workers in bandar kediri

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ABSTRACT

Laundry work carries a health risk of muscle problems. Especially in work attitudes, many cases experience musculoskeletal complaints if left unchecked, causing injury, disrupting productivity and even increasing work accidents. The household laundry industry is currently graying rapidly in line with the increasing level of activity in society. The aim of this research is to analyze work attitudes with musculoskeletal complaints in laundry workers in Bandar Kediri. The population and sample are all laundry workers in Bandar Kediri totaling 47 people. The design of this research cross sectional and uses the Pearson correlation test. The research results showed that there was a significant relationship of 0.027 tween work attitudes and musculoskeletal complaints. There is a relationship between work as tudes and musculoskeletal complaints, improving work attitudes will have an impact on changes in musculoskeletal complaints. Ergonomic work attitudes are important to apply in home industry laundry services to avoid musculoskeletal injuries, supported by adequate facilities such as ergonomic ironing tables and performing muscle relaxation movements such as simple twisting exercise 2-3 minutes.

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Introduction

Musculoskeletal complaints are complaints that are felt when muscles receive static loads repeatedly for a long time, causing complaints in the form of damage to joints, ligaments and tendons (Artha, 2017). Complaints of musculoskeletal pain are caused by activities with a high level of repetition with nonergonomic working methods (Dewi et al., 2023).

Musculoskeletal complaints that are left untreated and untreated result in impaired concentration at work, fatigue and ultimately decreased productivity (Tafana R. 2021). In terms of production, it results in reduced output, damage to product materials which ultimately results in not meeting production targets and unsatisfactory service(Lestari.S, Ita PL, 2023). In addition, costs due to workers not coming to work will cause a decrease in profits(Ramadani & Sunaryo, 2022). This is caused by expenses for training new employees to replace old employees who are sick as well as costs for hiring the services of consultants and other agents (Evadarianto & Dwiyanti, 2017).

Based on data from the European Agency for Safety and Health at Work (EASHW), it is stated that only workers experience musculoskeletal complaints. In 27 countries in the European Union, around 25% of workers complained of back pain, 23% reported muscle pain. (Tampubolon et al., 2014). WHO states that MSDs or musculoskeletal complaints are the largest occupational disease and are suffered by millions of workers and are experiencing an increase in incidence in various countries. (Sophia et al., 2022).

The home laundry industry is a service business for washing various types of cloth, carpets and other clothes (Zuliani, 2020). The laundry process begins with sorting, weighing, washing, drying, finishing and finally distribution (Handoko, 2013). Laundry workers' activities are generally pulling, pushing, lifting, folding and carrying items and are carried out repeatedly, thereby increasing the risk of musculoskeletal complaints (Fuadah et al., 2022).

Laundry work is one of the jobs that is prone to musculoskeletal complaints. The work attitudes carried out by laundry workers are generally carried out with unnatural attitudes such as sitting for too long, standing for too long and other movements that are done repeated private et al., 2023).

Work attitude is an attitude during work that has an impact on the position of the body area moving away from its natural position which results in musculoskeletal complaints. Complaints of muscle pain often occur and it is not realized that this is the impact of unergonomic work attitudes, correlated with the habit of sitting, bending and standing working positions (Saingo et al., 2022).

Bandar in Kediri City is a strategic area, surrounded by markets, agencies, schools, hospitals, universities, institutes and Islamic boarding schools, as well as ikat weaving. Several universities in Bandar include Tribakti Islamic University, Bhakti Wiyata Institute of Health Sciences, Ministry of Health Polytechnic, Pondok. The Islamic boarding school stip Bandar are the Lirboyo Islamic boarding school which is the largest, Kedunglo Almunadhdhorah Islamic boarding school, Al Ma'ruf Islamic boarding school. Al Ishlah Bandar Kidul Islamic boarding school. The hospital in Bandar is RSUD Kilisuci, RSGM IIK Bhakta. The dense activity has resulted in various services, such as laundry, which are widely available in Bandar Kota Kediri.

Based on preliminary data using the Nord Body Map (NBM) questionnaire, 3 laundry workers in Bandar Kediri were found to have complained of pain in the back and legs and during observations they found an acward attitude, namely bending when moving laundry.

2 Method

The research design used was analytical observational with a cross sectional approach. This research was conducted in Bandar Kota Kediri at 17 home laundry service industries with a total of 47 workers, and was conducted in October 2023. The population of this research was 17 home laundry industries, using saturated sampling, namely 47 people. Saturated sampling is a sample determination technique when all members of the population are used as samples (Priambodo et al., 2022). The independent variable in this study is work attitude and the dependent variable is musculoskeletal complaints. The instruments used are observation and the NBM questionnaire which consists of 27 statements that refer to parts or areas of the body that experience musculoskeletal complaints (Jannah & Sunaryo, 2021). The research began by asking permission from home industry owners, preliminary interviews, obtaining permits, conducting interviews and distringting questionnaires and documentation. Then the data obtained was tested using Pearson Correlation to determine the relationship between the variable length of well activity and the variable musculoskeletal complaints in laundry workers (Hardisman, 2020). Data was obtained using the Nordic Body Map questionnaire data sheet for musculoskeletal complaints, and the Rapid Entire Body Assessment (REBA) for work attitudes, namely evaluating body posture such as the neck, back, arms, wrists and feet, as well as repetitive work movements and coupling. (Sulaiman & Sari, 2018).

3. Results and Discussion

The results of the research on the distribution of respondents' characteristics among laundry workers in Bandar Kota Kediri were obtained as follows: General data from the research results, namely age, gender,

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education, length of service and length of work activity. Specific data from the research results are work attitudes and musculoskeletal complaints. The descriptive statistical analysis table is as allows, which in this study was applied to provide a representation the characteristics of respondents. The total number of respondents in this study was 47 respondents. The youngest respondent in this study was 20 years old, and the oldest respondent was 55 years old. The most common gender is female, namely 40 people, the most work period is 6-10 years, there are 27 respondents, the most education is high school, namely 36 respondents, the most work activity time is more than 7 hours, namely 27 respondents, the most work attitude is in the category moderate, namely 44 respondents to the medium category, namely 44 respondents. The research results can be seen in the following table:

Results

Table 1.

Frequency distribution by age			
Age	Amount	%	
20-30	2	4.3	
31-40	32	68.0	
45-50	11	23.4	
51-55	2	4.3	
Total	47	100	

Based on table 1. It is known that the highest age is 31-40 years 68%, then 45-50 years old 23.4%, 20-30 years old and 51-55 years old each at 4.3%.

Table 2.

Gender	Amount	%
Man	7	14.9
Woman	40	85.1
Total	47	100

Based on table 2, it is known that gender is dominated by women at 85.1%, followed by men at

14.9%

Table 3.

Frequency dist	ribution based on le	ngth of service	
Years of service	Amount	%	
New work period (<6 years)	4	8.5	
Medium working period (6-10 years)	27	57-4	
Long service life (>10 years)	16	34.1	
Total	47	100	

Based on table 3. It is known that the highest number is in the medium working period, namely 6-10 years, as much as 57.4%, and the lowest is in the new working period of less than 6 years, amounting to 8.5%.

Table 4.

Frequency distribution by education				
Education	Amount	%		
vocational school	11	23.4		
SENIOR HIGH	36	76.6		
SCHOOL Total	47	100		

Based on table 4. It is known that the highest education is SMA 23%, while SMK is 23.4%.

Table 5.

rasie ji				
Frequency distribution based on length of work activity				
Length of work activity Amount %				
≤7 hours	20	42.6		
>hour	27	57-4		
Total	47	100		

Based on table 5. It is known that the dominant number of working more than 7 hours is 57.4%, while ≤7 hours is 42.6%.

Fee accoment distribution

	Table 6.	
Frequency	distribution based on	work attitudes
Work attitude risk level	Amount	%
Very low	0	0
Low	0	0
Currently	44	93.6
Tall	7	6.4
Very high	0	0
Total	47	100

Based on table 6, it is known that the highest level of work attitude risk is in the medium category, 57.4%, while the high category is 6.4%, and the low category is 17%.

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Table 7

based on the leve	el of musculoskeletal complaints
Amount	%
0	0
44	93.6
7	6.4
O	O
47	100
	Amount 0 44 7 0

Based on table 7, it is known that the most musculoskeletal complaints are in the moderate category, 57.4%, while in the high category, 42.6%.

Table 8.

Pearson's correlation between work attitudes and musculoskeletal complaints			
		Musculoskeletal complaints	
Work attitude	Pearson Correlation		,547*
	Sig. (2-tailed)		,027
	N		

Based on table 8. It is known that the correlation test is 0.027, this value is smaller than 0.05 so the conclusion obtained is that there is a significant relationship between work attitude and musculoskeletal complaints. The correlation coefficient is 0.547, this value is in the medium category, and a positive value means that improving work attitudes will have an impact on changes in musculoskeletal complaints.

Discussion

Work attitude is an attitude during work that causes the position of the body area to move away from the natural position, thus having an impact on musculoskeletal complaints, for example, the back bends when lifting laundry, the shoulders rise when doing ironing (Ebu et al., 2020)

An unnatural work attitude is a work attitude where areas of the body move away from the

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natural position, such as raised shoulder movements, arms raised above the head, bent legs (Oley et al., 2018). The further the position of a body part is from the body's center of gravity, the higher the risk of musculoskeletal system complaints (Pradana, 2020). Unnatural work attitudes generally occur due to task demands, work tools and work stations that do not match the abilities and limitations of workers (Saputra, 2020).

The results of this study show that there is a significant relationship between work attitudes and musculoskeletal complaints, this is due to the demands of tasks that must be completed on time, especially in serving customer orders for express laundry, sometimes to the point of taking up time, reducing rest time and requiring additional overtime work exceeding 7 O'clock. Apart from that, the increase in consumers and the large number of clothes that have to be washed, ironed, and the number of competing laundry services forces workers to work with high competitiveness, thereby increasing work demands and increasing musculoskeletal complaints. As well as the hot work climate, narrow work stations, work attitudes are mostly done in a standing position, especially when ironing, which takes a lot of time.

This is in accordance with Asteria's research which states that workers in a standing position while working cause fatigue quickly because the standing work position requires more energy and body weight supported by the legs can cause musculoskeletal fatigue in the back, waist and legs there is a relationship between standing work attitudes and complaints (Pramana et al., 2021). Research shows that there is a relationship between work attitudes and musculoskeletal problems due to a good attitude (Wiranto et al., 2019). There is a relationship between work attitude and musculoskeletal complaints, namely working in a standing position for so long causes pressure and causes musculoskeletal complaints (Oktafiannisa et al., 2019). Kurnia's research shows that there is a relationship between work attitudes and musculoskeletal complaints due to long sitting work attitudes and repetitive movements (Putri & Ardi, 2020). Suwondo's research shows that there is a relationship between work attitudes and musculoskeletal complaints due to repetitive, awkward work attitudes and accumulative stress (Khofiyya et al., 2019).

4. Conclusion

There is a significant relationship of 0.027, this value is smaller than 0.05 so the conclusion obtained is that there is a significant relationship between work attitudes and musculoskeletal complaints. This is due to the demands of the task, especially express laundry, lack of rest, hot work climate and cramped work stations and ironing tables that lack ergonomics. The findings of this research are that express laundry increases after holidays and at certain events such as the commemoration of August 17th, so it must be completed more quickly and prioritized. This accelerates the occurrence of musculoskeletal complaints, increased repetitive movements and advanced positions when working because of the equipment used such as an ironing board. ergonomically unsupportive, too low or too high. It is hoped that there will be arrangements for working shifts, and that the ironing table should be arranged according to the height of the worker and that they will carry out muscle relaxation movements such as simple twisting exercises for 2 or 3 minutes in between while doing work.

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