



Optimizing the Role of Nursing Health Professionals November 24th 2020





PROCEEDING THE 4th INTERNATIONAL AGRONURSING CONFERENCE

"Optimizing the Role of Nursing and Health Professionals to Enhance the Health Care Quality in The New Normal Era"

> UPT PERCETAKAN & PENERBITAN UNIVERSITAS JEMBER 2020

PROCEEDING THE 4th INTERNATIONAL AGRONURSING CONFERENCE

"Optimizing the Role of Nursing and Health Professionals to Enhance the Health Care Quality in The New Normal Era"

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Setting/Layout:

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GREETING MESSAGE

Bismillahirrohmanirrohim Assalamualaikum Wr Wb Good morning and best wishes

The Honorable, Rector of University of Jember
The Honorable, Dean Faculty of Nursing, University of Jember
The Honorable, All Speaker of the International Nursing Conference
The Honorable, Guests
The Honorable, Conference Committee
Dear All, All Participants of the conference

Thank God we praise the presence of Allah SWT, because of the blessing and grace, we all can be present in this place, in order to attend the International Nursing Conference. Solawat and greetings may still be delegated to the Great Prophet Muhammad SAW.

Ladies and Gentlemen,

As the beginning of this speech, I would like to say welcome to the third international nursing conference, with the theme " Optimizing the Role of Nursing and Health Professionals to Enhance the Health Care Quality in the New Normal Era".

In the era of globalization, nursing and healthcare are affected in a unique way. Although the important tenets of health remain unchanged, the evolutions of nursing knowledge are far beyond than previously thought to be. The advancement of technology has enabled human to find more curative possibilities and the latest in nursing process or medical therapy. Nevertheless, more work needs to be done due to new challenges in the era of industrial revolution and unstable economic climate. A more comprehensive approach is needed in order to adapt and improve the healthcare system. Today, health is not only the absence of illness but also the presence of wellness especially in the New Normal Era of COVID 19.

4th IANC 2020 aims to enhance health care quality amongst healthcare professional, scientist, practitioners and students by being a platform to share and disseminate knowledge, updates, research findings and experience for the benefit of mankind.

4th IANC 2020 will focus on multiple range of topics in nursing, medicine, surgery, science, health management and alternative medicine. It will include but not limited to these major areas: 1). Nursing: Medical and surgical nursing (Adult), Emergency and critical nursing, Gerontological nursing, Community nursing, Family health nursing, Mental health nursing, Pediatric nursing, Maternity nursing, Nursing leadership and management, Complementary and Alternative Medicine (CAM) in nursing, Education in nursing. 2). Clinical Sciences: Dentistry, pharmacology, toxicology, immunology, medical and surgical nursing. 3). Health sciences Nutrition, population health, community health, epidemiology and health prevention, biostatics.

To answer that question on November 26, 2020, we will discuss enhance the Health Care Quality in the New Normal Era with speakers from 5 countries namely:

1. Prof. Rozzano Locsin, Ph.D, RN, FAAN (Tokushima University, Japan)

- 2. Prof. Lin Perry, RN., MSc., Ph.D (University of Technology Sydney, Australia)
- 3. Assist. Prof. Dr. Samoraphop Banharak (Khon Kaen University, Thailand)
- 4. Dr Jane Brooks, PhD, RN SFHEA (The University of Manchester, UK)
- 5. Ns. Anisah Ardiana, M.Kep., PhD (Faculty of Nursing, Universitas Jember, Indonesia)

Ladies and Gentlemen

This conference is attended by students, health department delegates, academics, hospital and community clinic practitioners with a total of 350 participants.

This event can be held because of the support and efforts of all parties. Therefore, I would like to thank the Rector of University of Jember, Head of School of Nursing- University of Jember, Indonesian National Nurses Association (INNA) or PPNI, and all the committees who have worked hard to carry out this activity. I also thank to the sponsors who have worked with us so that this event run as expected. Amen.

We as the committee, apologize if there is any inconvenience during this event. Our hope that this activity can increase our knowledge that benefits all of us. Amen.

Before I end my speech, I want to say "when we interpret that today is an ordinary day, then we will come out of this room as an ordinary people, but when we interpret that today is a very extraordinary day, then we will come out of this room as a very wonderful person ". Finally, please enjoy this conference, may Allah SWT always gives blessings to all of us. Amen

Wassalamualaikum Wr. Wb.

Chairperson

Ns. Kholid Rosyidi Muhammad Nur, MNS

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> Faculty of Nursing, University of Jember, Ph (0331) 323450 Email: ianc@unej.ac.id

RISK ANALYSIS OF THE OCCUPATIONAL AND HEALTH SAFETY USING HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRARC) METHOD IN THE UNIVERSITY OF MUHAMMADIYAH JEMBER

Dwi Yunita Haryanti

Nursing Management, Faculty of Health Science, University of Muhammadiyah Jember, Indonesia Corresponding Author: dwiyunita@unmuhjember.ac.id

ABSTRACT

Background: University of Muhammadiyah Jember has the potential and risk of dangers, so the launching of the Occupational and Health Safety program in this office area is something that needs to be carried out, in order to create a healthy, safe and comfortable office and the realization of healthy, safe, fit, performing and productive employees. Hazard Identification, Risk Assessment and Risk Control is one of the ways to identify potential dangers in any kind of job activities. Purpose: This research is held to analyze the risk of work accident by using HIRARC method. **Methods:** This research uses descriptive qualitative research method. The qualitative method is used to describe the condition, to identify and recognize the work accident analysis. Results: The findings show that hazard in the job activity is identified as chemical, mechanical, physical, electrical, ergonomic, biological, psychosocial and environmental hazards. The risk assessment which is held denotes that there are 6 high risk, 13 medium risk and 4 low risk. Conclussion: Risk control that can be applied are engineering controls, administrative and personal protective equipment to reduce unsafe action and unsafe condition. HIRARC method which has beed applied at the University of Muhammadiyah Jember proves that work activities in the office has a risk that should be controlled.

Keywords: Occupational and Health Safety; HIRARC; Work Accident; Office

BACKGROUND

Occupational and Health Safety in the office is occupational safety and health in the office area are all activities to ensure and protect the safety and health of employees through efforts to prevent occupational accidents and diseases due to work in the office (PMK, 2016). The government's goal of launching OHS in office areas is

to create a healthy, safe and comfortable office for the creation of healthy, safe, fit, performing and productive employees.

Data from the Central Statistics Agency in 2018 stated that the total workforce was 133.94 million, 127.07 million people working in the formal and informal sectors, while 6.87 million others were unemployed. Among them are formal workers in the industrial and office sectors. Based on exposure to hazard risks, the industrial sector will be exposed to mild to severe potential hazards, while the office sector is exposed to mild to moderate potential hazards.

In this era, occupational safety and health is a must for work organizers to increase productivity. The maintenance of good occupational health will minimize the number of morbidity, absenteeism, disabilities and work accidents, so that healthy and productive workers will be realized. Work accidents in the office sector can occur as a result of several potential hazards in the work environment, including physical, chemical, biological, ergonomic, psychosocial, mechanical, electrical, waste and disaster hazards.

Potential hazards in the work environment can be identified by using the HIRARC (Hazard Identification, Risk Assessment and Risk Analysis) method. HIRARC is a process of determining the priority of occupational accident risk level control so that it can classify the potential hazards into high, medium and low risks. This process will later facilitate the evaluation process (Department of Occupational Safety and Health, 2008).

Riskesdas 2018 data states that the prevalence of non-communicable diseases has increased if it compared to 2013. These diseases include cancer, stroke, chronic kidney disease, diabetes mellitus and hypertension. The increase of non-communicable diseases is related to lifestyle, such as smoking, alcoholic drinking, inadequate physical activity, and minimal consumption of vegetables and fruits. Increasing the level of education and professional workers in Indonesia will increase the number of office workers. Sedentary behavior or lack of physical activity is synonymous with office workers. Therefore, increasing the implementation of occupational safety and health in each institution or agency is something that must be developed and improved (Presidential Instruction No.1, 2017).

Until now, University of Muhammadiyah Jember has not conducted a risk analysis yet, so that the researcher is interested in conducting risk analysis to determine the potential hazards of office workers and its control plan. The OHS risk analysis uses the HIRARC method which is expected to be able to control the existing risks, so that the healthy, fit and productive workers in providing services also can be expected.

METHODS

This research used a qualitative method with a descriptive design. The work area chosen is a work area that has a potential hazard. The main informants of this research are the main leaders, represented by the head of the quality assurance agency, the head of the bureau, the dean, the head of the laboratory, the laboratory assistant and the head of security. Informants were selected by using purposive sampling. Sources of data in this research are primary data and secondary data. Primary data were obtained through interviews and observations by using the HIRARC method. Secondary data were obtained from study of supporting documents.

RESULTS

Hazard Identification

The first stage of HIRARC is hazard identification. The results of hazard identification at the University of Muhammadiyah Jember are presented in the following table:

Table 1. Hazard Identification of the General Administration Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES
1	Sweeping (floor)	- Dust - Un ergonomic broom	- Inhaled - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints
2	Floor moping	 Chemical agent from floor desinfectan Slippery floor Moping technique Equipment 	- Spilled - Misuse - Slip on - Fall down - Joint pain	 Intoxication Muculoskeletal dissorder
3	Washing floor moping equipment	- Chemical agent from floor desinfectan - Microorganism - Body language	- Exposure of chemical agent - Microorganism exposure - Not ergonomic	DermatitisIritationMuculoskeletal dissorder
4	Cleaning the furniture	 The way of cleaning (stand up, tiptoe, using portable stair) Microorganism (virus, bacteria, germs) Chemical agent 	 Not ergonomic Fall down Microorganism exposure Chemical exposure 	Muculoskeletal dissorderGIT dissorder
5	Cutting grass	- Sharp equipment	In touch with sharp equipment.Dust	InjuryRespiratory dissorder
6	Electrical instalation	Electric currentSparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath
7	Manual handling	Body positionBody weight bearingHeight	 Dislocate Increasing intra abdominal pressure Fall down 	Muculoskeletal dissorderLBPHernia
8	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain

				Tension headacheFrozen shoulder
9	Maintain environment security	Sun lightWorking out doorInteraction with many peopleForeigners	DazzledHot air exposureMicroorganism exposureCrime	HeadacheDehidrationRespiratory dissorderPhysical harassment
10	Work in 2-4 th floor	Height	- Fall down	FatigueDislocationFracture
11	Working indoor	Earthquake	Wrong directionFall downSqueezed	Hit by an objectFracture

Table 2. Hazard Identification of the Laboratorium Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES
Nursi	ng Laboratorium			
1	Preparing practicum that uses chemicals agent	- Chemical agent	Wrong reagentInhaledHit by the handSwallowed	ExplosionShortness ofbreathDermatitisBurn injuryIntoxication
2	Preparing practicum that uses sharp equipment	sharp equipmentUsed needles	InjuryPunctured	InfectionContagious disease
3	Preparing practicum that uses electrical	Electric currentSparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath
4	Preparing practicum related to invasive procedures	- Medical waste	- Microorganism exposure	- Contagious disease
	Laboratorium	C1 1	***	
1	Preparing practicum	- Chemical agent	Wrong reagentInhaledHit by the handSwallowed	 Explosion Shortness of breath Dermatitis Burn injury Intoxication
		- Electric current - Sparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath
	outer Laboratorium	- C	3.4:	D : / CIT
1	Preparing practicum	- Computer - Electric current	Microorganism exposureShort circuit	Respiratory/ GIT dissorderBurn injury

Table 3. Hazard Identification of the Computer Laboratorium Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES
1	Teaching and - Electric current learing process and administration - Electronics equipment		Electric shokShort circuit	Muculoskeletal dissorderBurn injuryFireDeath
2	Work with computer	Radiation	- Photokeratitis - Eyestrain - Increased radiation	 Eyes iritatiton Melatonin hormone dissorder Asthenopia Cataract Nausea Vominiting Headache
3	Work with electronic equipment	Electric currentElectronics equipment	Electric shokShort circuit	Muculoskeletal dissorderBurn injuryFireDeath
4	Work indoor with air conditioner	- AC - Aspergilus	- Spreading disease	Respiratory dissorderAspergilosis
5	Manual writing and reading	Not ergonomic postion	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder
6	Academic service	Working hoursWork loadFatigue	- Stress related work	 Performance degradation Motivation degradation Service quality degradation

RISK ASSESSMENT

Risk assessment is carried out to evaluate the amount of risk and impact that will be caused. The results of the risk assessment at the work unit at the University of Muhammadiyah Jember are as follows:

Table 4. Risk Assessment of the General Administration Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES	L	\mathbf{S}	RR
1	Maintain environme nt security	 Sun light Working out door Interaction with many people Foreigners 	exposure	HeadacheDehidrationRespiratory dissorderPhysical harassment	4	4	16

2	Cleaning the furniture	 The way of cleaning (stand up, tiptoe, using portable stair) Microorganism (virus, bacteria, germs) Chemical agent 	 Not ergonomic Fall down Microorganism exposure Chemical exposure 	Muculoskeletal dissorderGIT dissorder	4	3	12
3	Electrical instalation	Electric currentSparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath	3	4	12
4	Floor moping	 Chemical agent from floor desinfectan Slippery floor Moping technique Equipment 	SpilledMisuseSlip onFall downJoint pain	 Intoxication Muculoskeletal dissorder 	4	2	8
5	Manual handling	Body positionBody weight bearingHeight	 Dislocate Increasing intra abdominal pressure Fall down 	Muculoskeletal dissorderLBPHernia	4	2	8
6	Work in 2- 4 th floor	Height	- Fall down	FatigueDislocationFracture	2	4	8
7	Working indoor	Earthquake	Wrong directionFall downSqueezed	Hit by an objectFracture	2	4	8
8	Cutting grass	- Sharp equipment	In touch with sharp equipment.Dust	InjuryRespiratory dissorder	3	2	6
9	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder 	3	2	6
10	Sweeping (floor)	- Dust - Un ergonomic broom	- Inhaled - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints 	4	1	4
11	Washing floor moping equipment	- Chemical agent from floor desinfectan - Microorganism - Body language	Exposure of chemical agentMicroorganism exposureNot ergonomic	DermatitisIritationMuculoskeletal dissorder	4	1	4

Table 5. Risk Assessment of the Laboratorium Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES	L	S	RR
Nursi	ing Laboratoriui	m					
1	Preparing practicum that uses sharp equipment	sharp equipmentUsed needles	- Injury - Punctured	InfectionContagious disease	3	4	12
2	Preparing practicum that uses electrical	Electric currentSparks	Fall downElectric shockShort circuit	 Muculoskeletal dissorder Burn injury Fire Death	3	3	9
3	Preparing practicum related to invasive procedures	- Medical waste	- Microorganism exposure	- Contagious disease	3	3	9
4	Preparing practicum that uses chemicals agent	- Chemical agent	 Wrong reagent Inhaled Hit by the hand Swallowed 	ExplosionShortness of breathDermatitisBurn injuryIntoxication	3	2	6
Basic 1	Laboratorium						
1	Preparing practicum	- Chemical agent	Wrong reagentInhaledHit by the handSwallowed	ExplosionShortness of breathDermatitisBurn injuryIntoxication	3	2	6
		- Electric current - Sparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath	1	4	4
	puter Laboratori						
1	Preparing practicum	ComputerElectric current	Microorganism exposureShort circuit	Respiratory/ GIT dissorderBurn injury	1	4	4

Table 6. Risk Assessment of the Staffing Unit in the University of Muhammadiyah Jember

No	PROCESS		HAZ	ZARD	RISK	CONSEQUENCES	L	S	RR
1	Work with conditio	indoor air oner	- AC - Aspergil	us	- Spreading disease	Respiratory dissorderAspergilosis	4	3	12
2	Manual and read	_	Not postion	ergonomic	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension 	4	3	12

				headache - Frozen shoulder			
3	Academic service	Working hoursWork loadFatigue	- Stress related work	Performance degradationMotivation degradationService quality degradation	3	3	9
4	Work with computer	Radiation	PhotokeratitisEyestrainIncreased radiation	 Eyes iritatiton Melatonin hormone dissorder Asthenopia Cataract Nausea Vominiting Headache 	4	2	8
5	Teaching and learing process and administration	Electric currentElectronics equipment	Electric shokShort circuit	Muculoskeletal dissorderBurn injuryFireDeath	2	3	6

L : Likelihood
S : Severity
RR : Risk Rating

Table 7. Risk Control of the General Administration Unit in the University of Muhammadiyah Jember

	PROCESS	HAZARD	RISK	CONSEQUENCES		CONTROL
0	11100255		111,511	COTIBEQUEITEES	RR	001(1102
2	Maintain environme nt security	- Sun light - Working out door - Interaction with many people - Foreigners	- Dazzled - Hot air exposure - Microorga nism exposure - Crime	 Headache Dehidration Respiratory dissorder Physical harassment Muculoskeletal 	16	 Provides sun glasses Wearing face mask Obtaining hand hygiene Provides fire fighter training Provides tools for self defence (recommended punches/ weapon) Adjusting work shift Provides metal detector Use an adjustable
2	the furniture	cleaning (stand up, tiptoe, using portable stair) Microorganis m (virus, bacteria, germs) Chemical agent	- Not ergonomic- Fall down- Microorga nism exposure- Chemical exposure	dissorder GIT dissorder	12	 Use an adjustable cleaning tools Wearing gloves Wearing face mask Wearing head protection (helmet, hat) Obtaining hand hygiene
3	Electrical	- Electric	- Fall down	- Muculoskeletal	12	- Cable control regularly
	instalation	current	- Electric	dissorder		- Wearing personal
		- Sparks	shock	- Burn injury		protective equipment
			- Short circuit	- Fire - Death		- Provides fire
	Elean	- Chemical		- Intoxication	8	extinguisher
_4	Floor	- Chemicai	 Spilled 	- Intoxication	ð	- Provides a cabinet for

	moping	agent from floor desinfectan - Slippery floor - Moping technique - Equipment	- Misuse - Slip on - Fall down - Joint pain	- Muculoskeletal dissorder		storing chemical agent - Labeling clearly - Expired date control of desinfectant - Applying signs of danger and hazardous agent
5	Manual handling	Body positionBody weight bearingHeight	 Dislocatio n Increasing intra abdomina l pressure Fall down 	Muculoskeletal dissorderLBPHernia	8	 Providing lifting tools Perform routine inspection on the safety of stairs Socialization of SOP and lifting technique and ergonomic concept
6	Work in 2-4 th floor	Height	- Fall down	FatigueDislocationFracture	8	- Lakukan inspeksi rutin pada keamanan anak tangga - Memasang rambu keselamatan
7	Working indoor	Earthquake	Wrong directionFall downSqueeze d	Hit by an objectFracture	8	 Applying signs of evacuation Conducting a disaster emergency response simulation
8	Cutting grass	- Sharp equipment	- In touch with sharp equipment Dust	- Injury - Respiratory dissorder	6	 Put on boots Put on mask Wearing cloth gloves Arrange SOP for all tools and equipments
9	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder 	6	 Provides ergonomic furniture Cover the computer screen with a screen safer Schedule breaks every 2-4 hours between work hours
1 0	Sweeping (floor)	- Dust - Un ergonomic broom	- Inhaled - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints 	4	 Wearing a mask while sweeping Provides a light weight broom, easy to handle and use
1 1	Washing floor moping equipment	 Chemical agent from floor desinfectan Microorganis m Body language 	 Exposure of chemical agent Microorga nism exposure Not ergonomic 	DermatitisIritationMuculoskeletal dissorder	4	 Put on mask Wearing long rubber gloves Using a safe mop (avoid hold the mop when washing) Apply hand hygiene

Table 8. Risk Control of the Laboratorium Unit in the University of Muhammadiyah Jember

N o	PROCESS	HAZARD	RISK	CONSEQUENCES	RR	CONTROL
	rsing Laborato	orium				
1	Preparing practicum that uses sharp equipment	sharp equipmentUsed needles	- Injury - Puncture d	InfectionContagious disease	12	 Make a standard operational procedures Provide a sharp container Apply hand hygiene
2	Preparing practicum that uses electrical	- Electric current - Sparks	- Fall down - Electric shock - Short circuit	Muculoskeletal dissorderBurn injuryFireDeath	9	 Put up SOP for the use of tools on each electronic device Perform routine controls Turn on electronic device every day (even if not in use) Provide and ensure that fire extinguisher can be used
3	Preparing practicum related to invasive procedures	- Medical waste	- Microorg anism exposure	- Contagious disease	9	 Creating MOU for medical waste and toxic hazardous materials waste control Create SOP for medical waste disposal Aplly hand hygiene Decontaminate room and furniture after use
4	Preparing practicum that uses chemicals agent	- Chemical agent	 Wrong reagent Inhaled Hit by the hand Swallow ed 	 Explosion Shortness of breath Dermatitis Burn injury Intoxication 	6	 Separating chemicals agent according to their spessification MSDS must be available Labeling must be clear Provide fire extinguisher Wearing PPE when contact Provide a first aid kit Decontaminate the room after use
Basi	c Laboratoriun	n				
1	Preparing practicum	- Chemical agent	 Wrong reagent Inhaled Hit by the hand Swallow ed 	 Explosion Shortness of breath Dermatitis Burn injury Intoxication 	6	 Separating chemicals agent according to their spessification MSDS must be available Labeling must be clear Provide fire extinguisher Wearing PPE when contact Provide a first aid kit Decontaminate the room after use
		- Electric current - Sparks	Fall downElectric shockShort	Muculoskeletal dissorderBurn injuryFireDeath	4	 Put up SOP for the use of tools on each electronic device Perform routine controls Turn on electronic

		circuit				device every day (even if not in use) - Provide and ensure that fire extinguisher can be used
Computer Labor 1 Preparing	- Computer	- Microorg	- Respiratory/	GIT	4	- Apply keyboard
practicum	- Electric current	anism exposure - Short circuit	dissorder - Burn injury			protector - Decontaminate the equipment and room after use - Put up SOP for the use of tools on each electronic device - Perform routine controls - Turn on electronic device every day (even if not in use) - Provide and ensure that fire extinguisher can be used

Table 9. Risk Control of the Staffing Unit in the University of Muhammadiyah Jember

N	PROCESS	HAZARD	RISK	CONSEQUENCES	RR	CONTROL
0					NN	
1	Work indoor with air conditioner	- AC - Aspergilus	- Spreadin g disease	Respiratory dissorderAspergilosis	12	 Put on face mask Perform regular maintenance of the AC AC maintenance control card monitoring Consuming immunobooster
2	Manual writing and reading	Not ergonomic postion	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder 	12	 Provides an ergonomic chair and table Cover the computer screen with a screen safer Schedule breaks every 2-4 hours between work hours
3	Academic service	- Working hours - Work load - Fatigue	- Stress related work	 Performance degradation Motivation degradation Service quality degradation 	9	 Enforcement of reward and punishement Rescheduling work hours Rolling work place Socialization of SOP and job descriptions
4	Work with computer	Radiation	- Photoker atitis - Eyestrai n - Increase d radiation	 Eyes iritatiton Melatonin hormone dissorder Asthenopia Cataract Nausea Vominiting Headache 	8	 Apply a screen protector Make a schedule of rest Upgrading the type of computer Setting up the computer with the back facing the wall
5	Teaching and learing process	- Electric current	- Electric shok	- Muculoskeletal dissorder	6	- Apply keyboard protector

and	- Electronics	- Short	- Burn injury	- Decontaminate the
administration	equipment	circuit	- Fire	equipment and room
			- Death	after use
				- Put up SOP for the use
				of tools on each
				electronic device
				- Perform routine
				controls
				- Turn on electronic
				device every day (even
				if not in use)
				- Provide and ensure that
				fire extinguisher can be
				used

DISCUSSION

The results of hazard identification in the work unit of the general administration, laboratories and personnel unit at Muhammadiyah University of Jember stated that there were sources of danger in the types of chemical, mechanical, physical, electrical, ergonomic, biological, psychosocial and environmental. This is in accordance with Baskoro's research (2015) which states that there are types of hazards in the form of physical, chemical, ergonomic and psychosocial hazards at the Faculty of Health, University of Indonesia. Physical, chemical and biomechanical hazards related to ergonomics (Permenkes No 48, 2016).

Potential hazards in offices include chemical hazards which is found to be potentially exposed to staff working in laboratories as well as cleaners, namely detergents, disinfectants, dust from markers and corrosive tools and some chemical reagents. Chemicals continuously used causing irritation, intoxication, diseases of the skin, eyes and respiratory tract. As port d'entree is toxic to the human body in three ways, namely inhalation, digestion and skin (Sujoso, 2012). Storage of reagents in a laboratory that is not standardized, does not have a Material Safety Data Sheet (MSDS) is also a risk of unwanted things, such as explosion and fire. Making SOP and labeling of each chemical with MSDS is very necessary to avoid undesirable things. The controls which is carried out to reduce potential hazards and risks are engineering control, administrative control and the use of appropriate PPE (Kumara, 2019).

The mechanical hazards were found in lawn mowers, stairs and floors. Open mower has potential hazard for worker, where the blade can come off and injure the worker. Slippery floors and stairs and safety rubber on stairs can be source of mechanical hazards.

The activity of going up and down stairs is a physical activity that is commonly carried out by all staff and is considered to be healthier. This is in accordance with Suwarni and Ramadhani's research, 2019 which states that the activity of going up and down stairs can support body fitness. However, some stairs are not in accordance with safety standards so that there is a potential for fatigue and accidents (near miss). To reduce and avoid this incident, the stairs must be made as comfortable as possible in accordance with existing standards, because ideally when the stairs are passed by the user, they will not feel difficult or tired (Saputra, 2020).

Physical hazards are potential hazards that cause health problems for exposed workers (Sujoso, 2012). In the office world, radiation exposure from computer use has the potential to be an actual risk. Based on the results of the interview, it was found that eye disorders were common among both administrative staff and lecturers as a

result of prolonged computer use. The effect of the length of exposure to this monitor also plays a major role in existing complaints. This is in line with research by Bhanderi et.al which states that someone who works in front of a computer screen> 4 hours continuously has a 26-fold risk of suffering from Computer Vision Syndrome (CVS) compared to individuals who also work in front of a computer screen for <4 hours continuously.

The daytime break is used only for prayer and lunch then returning to work in front of computer screen. The demands of work lead to a reduced frequency of eye breaks, so multiple short breaks are more efficient than one-time long breaks. Responding to this problem, the American Academy of Opthalmology provides tips to avoid eye distraction while working, including installing a screen protector to reduce glare, follow the 20-20-20 rule, which is every 20 minutes of work, shift your view from the monitor to an object 20 feet away (six meters) for 20 seconds.

Office areas cannot be separated from electrical equipments. Electrical hazard signals result from electric currents and sparks or short circuits. Fire problems are often based on short circuits, human errors, flammable materials and inaccurate selection of electrical installation equipment (Hambaly, Setiawati, & Majid, 2018)

Ergonomic hazards based on the risk assessment and existing staff, are found in the form of fatigue when carrying goods from the 1st floor to 4th floor or vice versa. Complaints of back pain, shoulder and sprains / dislocations are the most common complaints caused by this activity. In some rooms, there are complaints in the form of a table mismatch with chairs, tables that are too high and chairs that cannot adjust, causing fatigue in the limbs involved (hands, arms, back and legs). Sitting and typing for a long time and manual handling can cause musculoskeletal disorders, such as low back pain. This is in accordance with the results of research conducted by Dewi (2017) that unnatural work posture for a long time will cause complaints of pain in body parts, fatigue, product defects and even physical defects.

The biological hazard that occurs as a result of contact with body fluids is needle stick injury which can be a big problem if the used needle contains pathogenic microorganisms, such as hepatitis or HIV. The most staffs at risk here are laboratory assistants in the nursing laboratory. Another biological hazard is air pollution, where the exposure comes from rooms that use air conditioning. Non-routine air conditioning treatment will cause the air to contain microorganisms and cause respiratory diseases, such as work-related asthma (Sujoso, 2012). The presence of vector animals (cockroaches and rats) as well as cats in the work area will also affect the cleanliness and health of workers. The identified psychosocial hazards are the setting of working and rest hours which are actually in accordance with standards, but it has not applicated yet, especially the extra attention for night shift workers related to the schedule of changing shifts. Workload exceeds the work capacity of some staff will cause decreased or poor work performance. Work done in a monotonous manner will also lead to boredom, which in turn leads to a decrease in worker productivity. Researcher's recommendations related to psychosocial hazards are reviewing work hours and rest time arrangements, reviewing work productivity, dividing work in order the workload is evenly distributed among all staff so that no one feels the burden is heavier than others and provides education to workers regarding safety and occupational health (Simbolon, 2018).

Environmental hazards at Muhammadiyah University of Jember exist in several work units located on the 4th floor, where the height is a source of danger that affects musculoskeletal disorders. Working at a height requires preventive action so that all work activities can be carried out safely, so risk management / risk management is

needed (HSE, 2017). To avoid musculoskeletal disorders, workers should pay attention to posture when going up and down stairs.

Based on the results of the risk assessment, there are 6 high-risk activity processes, 13 medium-risk activity processes and 4 low-risk activity processes. Evaluation needs to be done whether the existing risk is acceptable or not, referring to the risk criteria established by the management of the organization. Acceptable risk is often termed as low as reasonably practicable, where the lowest level of risk is reasonable (Ramli, 2013). The risks are found within acceptable limits, so control measures must be taken.

The risk control is carried out for all hazards which are found in the hazard identification process by considering the risk ratings to determine the control priorities. Possible risk controls are engineering, administrative and personal protective equipment. This is in line with the theory of risk control that needs to be done to minimize and / or eliminate the risk of work accidents through the stages of elimination, substitution, engineering, administrative and personal protective equipment (Ramli, 2013).

CONCLUSION

Hazard identification in 11 activity processes in the general administration unit are found 21 potential hazards. In the laboratory unit, there are 6 activity processes with 11 potential hazards and in the personnel unit, 6 activity processes with 9 potential hazards are found.

There is the risk assessment in the work unit of the general administration division with a risk rating of 16, which is the activity of maintaining security in the campus environment that inherent in security duties. The highest risk rating with a value of 12 in laboratory units is found in nursing laboratories, namely in the process of preparing practicum activities using sharp tools / objects. While the risk assessment in the personnel unit, the highest risk rating with a value of 12 was found in working in the room using air conditioning and also in writing / typing on computers.

Risk control is determined based on the risk categories. The red zone is a high risk that must be controlled by eliminating the risk of hazards. Yellow zone where the risk is acceptable if security has been implemented and the green zone does not need control, but still adheres to SOP and the use of personal protective equipment. Implementing a work safety and health system that has been accommodated in Permenkes No. 48 of 2016 concerning office safety and health standards, including occupational safety, occupational health, office work environment health and office ergonomics.

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Faculty of Nursing UNIVERSITAS JEMBER









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As Oral Presenter

in the 4th International Agronursing Conference

"Optimizing the Role of Nursing and Health Professional to Enhance Health Care Quality in the New Normal Era"

> November, 24th 2020 Jember- East Java - Indonesia Accreditated based on degree of Indonesian National Nurses Association (PPNI) No. 1183/DPP.PPNI/SK/K.S/X/2020

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Participant

: 4 SKP

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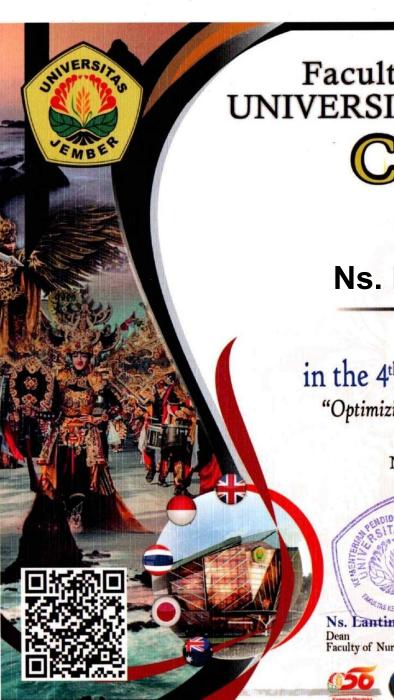




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No	Topics	Duration		
1 1	Topic 1: "Nursing for the New World: in the Time of COVID and Post-COVID"	60 Minutes		
2	Topic 2: "Technological Competency as Caring in Nursing in the New Normal Era"	60 Minutes		
3	Topic 3 : "Caring for the elderly in a New Normal Era"			
4	Topic 4 : "Postgraduate Research in a COVID world: Challenges, Strategies and Opportunities"	90 Minutes		
5	Topic 5 : "Performing Community Services as One of Indonesia Higher Education Pillars in The New Normal Era"	90 Minutes		
	Total	360 Minutes		



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: 4 SKP

Ns. Lantin Sulistvorini, S.Kep, M.Kes

Faculty of Nursing, Universitas Jember

Ns. Kholid Rosyidi MN, MNS

International AgroNursing Conference









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RISK ANALYSIS OF THE OCCUPATIONAL AND HEALTH SAFETY USING HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRARC) METHOD IN THE UNIVERSITY OF MUHAMMADIYAH JEMBER

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The 4th International Agronursing Conference

"Optimizing The Role of Nursing and Health Professionals to Enhance Health Care Quality in The New Normal Era"

Faculty of Nursing, University of Jember, Ph (0331) 323450 Email: ianc@unej.ac.id

RISK ANALYSISOF THE OCCUPATIONAL AND HEALTH SAFETY USING HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRARC) METHOD IN THE UNIVERSITY OF MUHAMMADIYAH JEMBER

Dwi Yunita Haryanti

Nursing Management, Faculty of Health Science, University of Muhammadiyah Jember, Indonesia Corresponding Author: dwiyunita@unmuhjember.ac.id

ABSTRACT

Background: University of Muhammadiyah Jember has the potential and risk of dangers, so the launching of the Occupational and Holth Safety program in this office area is something that needs to be carried out, in order to create a healthy, safe and comfortable office and the realization of healthy, safe, fit, performing and productive employees. Hazard Identification, Risk Assessment and Risk (3) ntrol is one of the ways to identify potential dangers in any kind of job activities. **Purpose:** This researsh is held to analyze the risk of work accident by using HIRARC method. **Methods:** This research uses descriptive qualitative research method. The qualitative method is used to describe the condition, to identify and recognize the work accident analysis. Results: The findings show that hazard in the job activity is identified as chemical, mechanical, physical, electrical, ergonomic, biological, psychosocial and environmental hazards. The risk assessment which is held denotes that there are 6 high risk, 13 medium risk and 4 low risk. Conclussion: Risk control that can be applied are engineering controls, administrative and personal protective equipment to reduce unsafe action and unsafe condition. HIRARC method which has beed applied at the University of Muhammadiyah Jember proves that work activities in the office has a risk that should be controlled.

Keywords: Occupational and Health Safety; HIRARC; Work Accident; Office

BACKGROUND

2

Occupational and Health Safety in the office is occupational safety and health in the office 2 ea are all activities to ensure and protect the safety and health of employees through efforts to prevent occupational accidents and diseases due to work in the office (PMK, 2016). The government's goal of launching OHS in office areas is



to create a healthy, safe and comfortable office for the creation of healthy, safe, fit, performing and productive employees.

Data from the Central Statistics Agency in 2018 stated that the total workforce was 133.94 million, 127.07 million people working in the formal and informal sectors, while 6.87 million others were unemployed. Among them are formal workers in the industrial and office sectors. Based on exposure to hazard risks, the industrial sector will be exposed to mild to severe potential hazards, while the office sector is exposed to mild to moderate potential hazards.

In this era, occupational safety and health is a must for work organizers to increase productivity. The maintenance of good occupational health will minimize the number of morbidity, absenteeism, disabilities and work accidents, so that healthy and productive workers will be realized. Work accidents in the office sector can occur as a result of several potential hazards in the work environment, including physical, chemical, biological, ergonomic, psychosocial, mechanical, electrical, waste and disaster hazards.

Potential hazards in the work environment can be identified by using the HIRARC (Hazard Identification, Risk Assessment and Risk Analysis) method. HIRARC is a process of determining the priority of occupational accident risk level control so that it can classify the potential hazards into high, medium and low risks. This process will later facilitate the evaluation process (Department of Occupational Safety and Health, 2008).

Riskesdas 2018 data states that the prevalence of non-communicable diseases has increased if it compared to 2013. These diseases include cancer, stroke, chronic kidney disease, diabetes mellitus and hypertension. The increase of non-communicable diseases is related to lifestyle, such as smoking, alcoholic drinking, inadequate physical activity, and minimal consumption of vegetables and fruits. Increasing the level of education and professional workers in Indonesia will increase the number of office workers. Sedentary behavior or lack of physical activity is synonymous with office workers. Therefore, increasing the implementation of occupational safety and health in each institution or agency is something that must be developed and improved (Presidential Instruction No.1, 2017).

Until now, University of Muhammadiyah Jember has not conducted a risk analysis yet, so that the researcher is interested in conducting risk analysis to determine the potential hazards of office workers and its control plan. The OHS risk analysis uses the HIRARC method which is expected to be able to control the existing risks, so that the healthy, fit and productive workers in providing services also can be expected.

METHODS

This research used a qualitative method with a descriptive design. The work area chosen is a work area that has a potential hazard. The main informants of this research are the main leaders, represented by the head of the quality assurance agency, the head of the bureau, the dean, the head of the laboratory, the laboratory assistant and the head of security. Informants were selected by using purposive sampling. Sources of data in this research are primary data and secondary data. Primary data were obtained through interviews and observations by using the HIRARC method. Secondary data were obtained from study of supporting documents.

RESULTS

Hazard Identification

The first stage of HIRARC is hazard identification. The regults of hazard identification at the University of Muhammadiyah Jember are presented in the following table:

Table 1. Hazard Identification of the General Administration Unit in the University of Muhammadiyah Jember

Na	Muhammadiyah Jember No. PROCESS HAZARD PISK CONSEQUENT					
No 1	PROCESS Sweeping (floor)	- Dust	- Inhaled	CONSEQUENCES		
1	Sweeping (floor)	- Un ergonomic broom	- Innated - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints 		
2	Floor moping	- Chemical agent from floor desinfectan - Slippery floor - Moping technique - Equipment	- Spilled - Misuse - Slip on - Fall down - Joint pain	- Intoxication - Muculoskeletal dissorder		
3	Washing floor moping equipment	- Chemical agent from floor desinfectan - Microorganism - Body language	- Exposure of chemical agent - Microorganism exposure - Not ergonomic	DermatitisIritationMuculoskeletal dissorder		
4	Cleaning the furniture	- The way of cleaning (stand up, tiptoe, using portable stair) - Microorganism (virus, bacteria, germs) - Chemical agent	Not ergonomic Fall down Microorganism exposure Chemical exposure	Muculoskeletal dissorderGIT dissorder		
5	Cutting grass	- Sharp equipment	In touch with sharp equipment.Dust	InjuryRespiratory dissorder		
6	Electrical instalation	- Electric current - Sparks	Fall downElectric shockShort circuit	Muculoskeletal dissorder Burn injury Fire Death		
7	Manual handling	Body positionBody weight bearingHeight	 Dislocate Increasing intra abdominal pressure Fall down 	 Muculoskeletal dissorder LBP Hernia 		
8	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain 		

				Tension headacheFrozen shoulder
9	Maintain environment security	- Sun light - Working out door - Interaction with many people - Foreigners	DazzledHot air exposureMicroorganism exposureCrime	HeadacheDehidrationRespiratory dissorderPhysical harassment
10	Work in 2-4 th floor	Height	- Fall down	- Fatigue - Dislocation - Fracture
11	Working indoor	Earthquake	Wrong directionFall downSqueezed	Hit by an objectFracture

Table 2. Hazard Identification of the Laboratorium Unit in the University of Muhammadiyah Jember

	Muhammadiyah Jember					
No	PROCESS	HAZARD	RISK	CONSEQUENCES		
Nursir	ng Laboratorium					
1	Preparing practicum that uses chemicals agent	- Chemical agent	Wrong reagentInhaledHit by the handSwallowed	- Explosion - Shortness of breath - Dermatitis - Burn injury - Intoxication		
2	Preparing practicum that uses sharp equipment	- sharp equipment - Used needles	- Injury - Punctured	- Infection - Contagious disease		
3	Preparing practicum that uses electrical	- Electric current - Sparks	Fall downElectric shockShort circuit	 Muculoskeletal dissorder Burn injury Fire Death 		
4	Preparing practicum related to invasive procedures	- Medical waste	- Microorganism exposure	- Contagious disease		
	aboratorium					
1	Preparing practicum	- Chemical agent	Wrong reagentInhaledHit by the handSwallowed	 Explosion Shortness of breath Dermatitis Burn injury Intoxication 		
		- Electric current - Sparks	Fall downElectric shockShort circuit	 Muculoskeletal dissorder Burn injury Fire Death 		
Comp	uter Laboratorium					
1	Preparing practicum	- Computer - Electric current	Microorganism exposureShort circuit	Respiratory/ GIT dissorderBurn injury		

Table 3. Hazard Identification of the Computer Laboratorium Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD RISK		CONSEQUENCES		
1	Teaching and learing process and administration	- Electric current - Electronics equipment	Electric current - Electric shok - Short circuit			
2	Work with computer	Radiation	PhotokeratitisEyestrainIncreased radiation	- Eyes iritatiton - Melatonin hormone dissorder - Asthenopia - Cataract - Nausea - Vominiting - Headache		
3	Work with electronic equipment	- Electric current - Electronics equipment	- Electric shok - Short circuit	Muculoskeletal dissorder Burn injury Fire Death		
4	Work indoor with air conditioner	- AC - Aspergilus	- Spreading disease	- Respiratory dissorder - Aspergilosis		
5	Manual writing and reading	Not ergonomic postion	- Fatigue - Injury	- Work related musculoskeletal disorders (WMSDs) - Low back pain - Tension headache - Frozen shoulder		
6	Academic service	- Working hours - Work load - Fatigue	- Stress related work	 Performance degradation Motivation degradation Service quality degradation 		

RISK ASSESSMENT

Risk assessment is carried out to evaluate the amount of risk and impact that will be caused. The results of the risk assessment at the work unit at the University of Muhammadiyah Jember are as follows:

Table 4. Risk Assessment of the General Administration Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES	L	S	RR
1	Maintain	- Sun light	- Dazzled	- Headache	4	4	16
	environme	- Working out	- Hot air	 Dehidration 			
	nt security	door	exposure	- Respiratory dissorder			
		- Interaction with	 Microorganism 	 Physical harassment 			
		many people	exposure				
		- Foreigners	- Crime				

2	Cleaning the furniture	- The way of cleaning (stand up, tiptoe, using portable stair) - Microorganism (virus, bacteria, germs) - Chemical agent	 Not ergonomic Fall down Microorganism exposure Chemical exposure 	Muculoskeletal dissorderGIT dissorder	4	3	12
3	Electrical instalation	- Electric current - Sparks	Fall downElectric shockShort circuit	 Muculoskeletal dissorder Burn injury Fire Death 	3	4	12
4	Floor moping	- Chemical agent from floor desinfectan - Slippery floor - Moping technique - Equipment	SpilledMisuseSlip onFall downJoint pain	 Intoxication Muculoskeletal dissorder 	4	2	8
5	Manual handling	- Body position - Body weight bearing - Height	 Dislocate Increasing intra abdominal pressure Fall down 	Muculoskeletal dissorderLBPHernia	4	2	8
6	Work in 2- 4 th floor	Height	- Fall down	FatigueDislocationFracture	2	4	8
7	Working indoor	Earthquake	Wrong directionFall downSqueezed	- Hit by an object - Fracture	2	4	8
8	Cutting grass	- Sharp equipment	- In touch with sharp equipment. - Dust	- Injury - Respiratory dissorder	3	2	6
9	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	- Work related musculoskeletal disorders (WMSDs) - Low back pain - Tension headache - Frozen shoulder	3	2	6
10	Sweeping (floor)	- Dust - Un ergonomic broom	- Inhaled - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints 	4	1	4
11	Washing floor moping equipment	- Chemical agent from floor desinfectan - Microorganism - Body language	 Exposure of chemical agent Microorganism exposure Not ergonomic 	DermatitisIritationMuculoskeletal dissorder	4	1	4

Table 5. Risk Assessment of the Laboratorium Unit in the University of Muhammadiyah Jember

No	PROCESS	HAZARD	RISK	CONSEQUENCES	L	S	RR
Nurs	ing Laboratoriui	m					
1	Preparing practicum that uses sharp equipment	- sharp equipment - Used needles	- Injury - Punctured	- Infection - Contagious disease	3	4	12
2	Preparing practicum that uses electrical	- Electric current - Sparks	Fall downElectric shockShort circuit	Muculoskeletal dissorderBurn injuryFireDeath	3	3	9
3	Preparing practicum related to invasive procedures	- Medical waste	- Microorganism exposure	- Contagious disease	3	3	9
4	Preparing practicum that uses chemicals agent	- Chemical agent	 Wrong reagent Inhaled Hit by the hand Swallowed 	ExplosionShortness of breathDermatitisBurn injuryIntoxication	3	2	6
Basic	Laboratorium						
1	Preparing practicum	- Chemical agent	 Wrong reagent Inhaled Hit by the hand Swallowed 	ExplosionShortness of breathDermatitisBurn injuryIntoxication	3	2	6
		- Electric current - Sparks	Fall downElectric shockShort circuit	 Muculoskeletal dissorder Burn injury Fire Death 	1	4	4
Com	puter Laboratori						
1	Preparing practicum	- Computer - Electric current	Microorganism exposureShort circuit	Respiratory/ GIT dissorderBurn injury	1	4	4

Table 6. Risk Assessment of the Staffing Unit in the University of Muhammadiyah Jember

No	PROCESS	PROCESS HAZARD		CONSEQUENCES	L	S	RR
1	Work indoor	- AC	- Spreading	- Respiratory	4	3	12
	with air	 Aspergilus 	disease	dissorder			
	conditioner			 4spergilosis 			
2	Manual writing	Not ergonomic	 Fatigue 	 Work related 	4	3	12
	and reading	postion	- Injury	musculoskeletal			
				disorders			
				(WMSDs)			
				- Low back pain			
				- Tension			
					-		

				headache - Frozen shoulder			
3	Academic service	- Working hours - Work load - Fatigue	- Stress related work	 Performance degradation Motivation degradation Service quality degradation 	3	3	9
4	Work with computer	Radiation	PhotokeratitisEyestrainIncreased radiation	 Eyes iritatiton Melatonin hormone dissorder Asthenopia Cataract Nausea Vominiting Headache 	4	2	8
5	Teaching and learing process and administration	- Electric current - Electronics equipment	- Electric shok - Short circuit	 Muculoskeletal dissorder Burn injury Fire Death 	2	3	6

L : Likelihood S : Severity RR : Risk Rating

Table 7. Risk Control of the General Administration Unit in the University of Muhammadiyah Jember

N o	PROCESS	HAZARD	RISK	CONSEQUENCES	RR	CONTROL
1	Maintain environme nt security	- Sun light - Working out door - Interaction with many people - Foreigners	- Dazzled - Hot air exposure - Microorga nism exposure - Crime	 Headache Dehidration Respiratory dissorder Physical harassment 	16	 Provides sun glasses Wearing face mask Obtaining hand hygiene Provides fire fighter training Provides tools for self defence (recommended punches/ weapon) Adjusting work shift Provides metal detector
2	Cleaning the furniture	- The way of cleaning (stand up, tiptoe, using portable stair) - Microorganis m (virus, bacteria, germs) - Chemical agent	- Not ergonomic - Fall down - Microorga nism exposure - Chemical exposure	 Muculoskeletal dissorder GIT dissorder 	12	 Use an adjustable cleaning tools Wearing gloves Wearing face mask Wearing head protection (helmet, hat) Obtaining hand hygiene
3	Electrical instalation	- Electric current - Sparks	Fall downElectric shockShort circuit	Muculoskeletal dissorder Burn injury Fire Death	12	Cable control regularly Wearing personal protective equipment Provides fire extinguisher

	moping	agent from floor desinfectan - Slippery floor - Moping technique - Equipment	- Misuse - Slip on - Fall down - Joint pain	- Muculoskeletal dissorder		storing chemical agent - Labeling clearly - Expired date control of desinfectant - Applying signs of danger and hazardous agent
5	Manual handling	- Body position - Body weight bearing - Height	Dislocatio n Increasing intra abdomina I pressure Fall down	Muculoskeletal dissorderLBPHernia	8	Providing lifting tools Perform routine inspection on the safety of stairs Socialization of SOP and lifting technique and ergonomic concept
6	Work in 2-4 th floor	Height	- Fall down	FatigueDislocationFracture	8	Lakukan inspeksi rutin pada keamanan anak tangga Memasang rambu keselamatan
7	Working indoor	Earthquake	Wrong directionFall downSqueeze d	Hit by an objectFracture	8	- Applying signs of evacuation - Conducting a disaster emergency response simulation
8	Cutting grass	- Sharp equipment	In touch with sharp equipmentDust	- Injury - Respiratory dissorder	6	 Put on boots Put on mask Wearing cloth gloves Arrange SOP for all tools and equipments
9	Working with many tools and equipment	Work equipment (dimention, shape and design)	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder 	6	 Provides ergonomic furniture Cover the computer screen with a screen safer Schedule breaks every 2-4 hours between work hours
1 0	Sweeping (floor)	- Dust - Un ergonomic broom	- Inhaled - Contact with mucosa membrane (eyes, node and mouth) - Fatigue	 Respiratory dissorder Konjungtivitis Irritation Low back pain and the joints 	4	Wearing a mask while sweeping Provides a light weight broom, easy to handle and use
1 1	Washing floor moping equipment	- Chemical agent from floor desinfectan - Microorganis m - Body language	- Exposure of chemical agent - Microorga nism exposure - Not ergonomic	DermatitisIritationMuculoskeletal dissorder	4	 Put on mask Wearing long rubber gloves Using a safe mop (avoid hold the mop when washing) Apply hand hygiene

Table 8. Risk Control of the Laboratorium Unit in the University of Muhammadiyah Jember

N	PROCESS	HAZARD	RISK	CONSEQUENCES	RR	CONTROL
Nu	rsing Laborato	rium				
1	Preparing practicum that uses sharp equipment	- sharp equipment - Used needles	- Injury - Puncture d	- Infection - Contagious disease	12	Make a standard operational procedures Provide a sharp container Apply hand hygiene
2	Preparing practicum that uses electrical	- Electric current - Sparks	- Fall down - Electric shock - Short circuit	 Muculoskeletal dissorder Burn injury Fire Death 	9	Put up SOP for the use of tools on each electronic device Perform routine controls Turn on electronic device every day (even if not in use) Provide and ensure that fire extinguisher can be used
3	Preparing practicum related to invasive procedures	- Medical waste	- Microorg anism exposure	- Contagious disease	9	Creating MOU for medical waste and toxic hazardous materials waste control Create SOP for medical waste disposal Aplly hand hygiene Decontaminate room and furniture after use
4	Preparing practicum that uses chemicals agent	- Chemical agent	- Wrong reagent - Inhaled - Hit by the hand - Swallow ed	- Explosion - Shortness of breath - Dermatitis - Burn injury - Intoxication	6	Separating chemicals agent according to their spessification MSDS must be available Labeling must be clear Provide fire extinguisher Wearing PPE when contact Provide a first aid kit Decontaminate the room after use
Basi	c Laboratoriur	n				
1	Preparing practicum	- Chemical agent	- Wrong reagent - Inhaled - Hit by the hand - Swallow ed	- Explosion - Shortness of breath - Dermatitis - Burn injury - Intoxication	6	 Separating chemicals agent according to their spessification MSDS must be available Labeling must be clear Provide fire extinguisher Wearing PPE when contact Provide a first aid kit Decontaminate the room after use
		- Electric current - Sparks	Fall downElectric shockShort	Muculoskeletal dissorderBurn injuryFireDeath	4	Put up SOP for the use of tools on each electronic device Perform routine controls Turn on electronic

		device every day (even if not in use) - Provide and ensure that fire extinguisher can be used			
Computer Laboratorium 1 Preparing - Computer - Electric current	- Microorg anism exposure - Short circuit	- Respiratory/ dissorder - Burn injury	GIT	4	- Apply keyboard protector - Decontaminate the equipment and room after use - Put up SOP for the use of tools on each electronic device - Perform routine controls - Turn on electronic device every day (even if not in use) - Provide and ensure that fire extinguisher can be used

Table 9. Risk Control of the Staffing Unit in the University of Muhammadiyah Jember

N	PROCESS	HAZARD	RISK	CONSEQUENCES	RR	CONTROL
0					KK	
1	Work indoor with air conditioner	- AC - Aspergilus	- Spreadin g disease	Respiratory dissorderAspergilosis	12	 Put on face mask Perform regular maintenance of the AC AC maintenance control card monitoring Consuming immunobooster
2	Manual writing and reading	Not ergonomic postion	- Fatigue - Injury	 Work related musculoskeletal disorders (WMSDs) Low back pain Tension headache Frozen shoulder 	12	 Provides an ergonomic chair and table Cover the computer screen with a screen safer Schedule breaks every 2-4 hours between work hours
3	Academic service	- Working hours - Work load - Fatigue	- Stress related work	 Performance degradation Motivation degradation Service quality degradation 	9	 Enforcement of reward and punishement Rescheduling work hours Rolling work place Socialization of SOP and job descriptions
4	Work with computer	Radiation	 Photoker atitis Eyestrai n Increase d radiation 	 Eyes iritatiton Melatonin hormone dissorder Asthenopia Cataract Nausea Vominiting Headache 	8	 Apply a screen protector Make a schedule of rest Upgrading the type of computer Setting up the computer with the back facing the wall
5	Teaching and learing process	- Electric current	- Electric shok	- Muculoskeletal dissorder	6	- Apply keyboard protector

and	- Electronics	- Short	- Burn injury	- Decontaminate the
administration	equipment	circuit	- Fire	equipment and room
			- Death	after use
				- Put up SOP for the use
				of tools on each
				electronic device
				- Perform routine
				controls
				- Turn on electronic
				device every day (even
				if not in use)
				- Provide and ensure that
				fire extinguisher can be
				used

DISCUSSION

The results of hazard identification in the work unit of the general administration, laboratories and personnel unit at Muhammadiyah University of Jember stated that there were sources of danger in the types of chemical, mechanical, physical, electrical, ergonomic, biological, psychosocial and environmental. This is in accordance with Baskoro's research (2015) which states that there are types of hazards in the form of physical, chemical, ergonomic and psychosocial hazards at the Faculty of Health, University of Indonesia. Physical, chemical and biomechanical hazards related to ergonomics (Permenkes No 48, 2016).

Potential hazards in offices include chemical hazards which is found to be potentially exposed to staff working in laboratories as well as cleaners, namely detergents, disinfectants, dust from markers and corrosive tools and some chemical reagents. Chemicals continuously used causing irritation, intoxication, diseases of the skin, eyes and respiratory tract. As port d'entree is toxic to the human body in three ways, namely inhalation, digestion and skin (Sujoso, 2012). Storage of reagents in a laboratory that is not standardized, does not have a Material Safety Data Sheet (MSDS) is also a risk of unwanted things, such as explosion and fire. Making SOP and labeling of each chemical with MSDS is very necessary to avoid undesirable things. The controls which is carried out to reduce potential hazards and risks are engineering control, administrative control and the use of appropriate PPE (Kumara, 2019).

The mechanical hazards were found in lawn mowers, stairs and floors. Open mower has potential hazard for worker, where the blade can come off and injure the worker. Slippery floors and stairs and safety rubber on stairs can be source of mechanical hazards.

The activity of going up and down stairs is a physical activity that is commonly carried out by all staff and is considered to be healthier. This is in accordance with Suwarni and Ramadhani's research, 2019 which states that the activity of going up and down stairs can support body fitness. However, some stairs are not in accordance with safety standards so that there is a potential for fatigue and accidents (near miss). To reduce and avoid this incident, the stairs must be made as comfortable as possible in accordance with existing standards, because ideally when the stairs are passed by the user, they will not feel difficult or tired (Saputra, 2020).

Physical hazards are potential hazards that cause health problems for exposed workers (Sujoso, 2012). In the office world, radiation exposure from computer use has the potential to be an actual risk. Based on the results of the interview, it was found that eye disorders were common among both administrative staff and lecturers as a

result of prolonged computer use. The effect of the length of exposure to this monitor also plays a major role in existing complaints. This is in line with research by Bhanderi et.al which states that someone who works in front of a computer screen> 4 hours continuously has a 26-fold risk of suffering from Computer Vision Syndrome (CVS) compared to individuals who also work in front of a computer screen for <4 hours continuously.

The daytime break is used only for prayer and lunch then returning to work in front of computer screen. The demands of work lead to a reduced frequency of eye breaks, so multiple short breaks are more efficient than one-time long breaks. Responding to this problem, the American Academy of Opthalmology provides tips to avoid eye distraction while working, including installing a screen protector to reduce glare, follow the 20-20-20 rule, which is every 20 minutes of work, shift your view from the monitor to an object 20 feet away (six meters) for 20 seconds.

Office areas cannot be separated from electrical equipments. Electrical hazard signals result from electric currents and sparks or short circuits. Fire problems are often based on short circuits, human errors, flammable materials and inaccurate selection of electrical installation equipment (Hambaly, Setiawati, & Majid, 2018)

Ergonomic hazards based on the risk assessment and existing staff, are found in the form of fatigue when carrying goods from the 1st floor to 4th floor or vice versa. Complaints of back pain, shoulder and sprains / dislocations are the most common complaints caused by this activity. In some rooms, there are complaints in the form of a table mismatch with chairs, tables that are too high and chairs that cannot adjust, causing fatigue in the limbs involved (hands, a 16), back and legs). Sitting and typing for a long time and manual handling can cause musculoskeletal disorders, such as low back pain. This is in accordance with the results of research conducted by Dewi (2017) that unnatural work posture for a long time will cause complaints of pain in body parts, fatigue, product defects and even physical defects.

The biological hazard that occurs as a result of contact with body fluids is needle stick injury which can be a big problem if the used needle contains pathogenic microorganisms, such as hepatitis or HIV. The most staffs at risk here are laboratory assistants in the nursing laboratory. Another biological hazard is air pollution, where the exposure comes from rooms that use air conditioning. Non-routine air conditioning treatment will cause the air to contain microorganisms and cause respiratory diseases, such as work-related asthma (Sujoso, 2012). The presence of vector animals (cockroaches and rats) as well as cats in the work area will also affect the cleanliness and health of workers. The identified psychosocial hazards are the setting of working and rest hours which are actually in accordance with standards, but it has not applicated yet, especially the extra attention for night shift workers related to the schedule of changing shifts. Workload exceeds the work capacity of some staff will cause decreased or poor work performance. Work done in a monotonous manner will also lead to boredom, which in turn leads to a decrease in worker productivity. Researcher's recommendations related to psychosocial hazards are reviewing work hours and rest time arrangements, reviewing work productivity, dividing work in order the workload is evenly distributed among all staff so that no one feels the burden is heavier than others and provides education to workers regarding safety and occupational health (Simbolon, 2018).

Environmental hazards at Muhammadiyah University of Jember exist in several work units located on the 4th floor, where the height is a source of danger that affects musculoskeletal disorders. Working at a height requires preventive action so that all work activities can be carried out safely, so risk management / risk management is

needed (HSE, 2017). To avoid musculoskeletal disorders, workers should pay attention to posture when going up and down stairs.

Based on the results of the risk assessment, there are 6 high-risk activity processes, 13 medium-risk 15 tivity processes and 4 low-risk activity processes. Evaluation needs to be done whether the existing risk is acceptable or not, referring to the risk criteria stablished by the management of the organization. Acceptable risk is often termed as low as reasonably practicable, where the lowest level of risk is reasonable (Ramli, 2013). The risks are found within acceptable limits, so control measuas must be taken.

The risk control is carried out for all hazards which are found in the hazard identification process by considering the risk ratings to determine the control priorities. Possible risk controls are engineering, administrative and personal protective equipment. This is in line with the theory of risk control that needs to be done to minimize and / or eliminate the risk of work accidents through the stages of elimination, substitution, engineering, administrative and personal protective equipment (Ramli, 2013).

CONCLUSION

Hazard identification in 11 activity processes in the general administration unit are found 21 potential hazards. In the laboratory unit, there are 6 activity processes with 11 potential hazards and in the personnel unit, 6 activity processes with 9 potential hazards are found.

There is the risk assessment in the work unit of the general administration division with a risk rating of 16, which is the activity of maintaining security in the campus environment that inherent in security duties. The highest risk rating with a value of 12 in laboratory units is found in nursing laboratories, namely in the process of preparing practicum activities using sharp tools / objects. While the risk assessment in the personnel unit, the highest risk rating with a value of 12 was found in working in the room using air conditioning and also in writing / typing on computers.

Risk control is determined based on the risk categories. The red zone is a high risk that must be controlled by eliminating the risk of hazards. Yellow zone where the risk is acceptable if security has been implemented and the green zone does not need control, but still adheres to SOP and the use of personal protective equipment. Implementing a work safety and health sys 101 that has been accommodated in Permenkes No. 48 of 2016 concerning office safety and health standards, including occupational safety, occupational health, office work environment health and office ergonomics.

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RISK ANALYSIS OF THE OCCUPATIONAL AND HEALTH SAFETY USING HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL (HIRARC) METHOD IN THE UNIVERSITY OF MUHAMMADIYAH JEMBER

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