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**ORIGINAL RESEARCH** 



## THE EFFECTIVENESS OF MOBILISATION BY ADDING D5% FOR POST OPERATIONPATIENT OFINTESTINES PERISTALTIC IN THE ICU ROOM

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ABSTRACT Keywords

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The surgeonwas a medical treatment using thein vasive technique; it was ended by needling and closing of the wound assisted with anesthesia. The most primary grievance occurredfor the post-surgical operation were a body weakness,lack of muscle strength, query, vomit, a decreasing of nutrient and the duration of hospitalizing for the patient after surgical oper-action affected by an abdomensurgical. The intestine was possibility manipulation during an operation involving immobility and lack of orally. Those can affect the intestine function cause of various grievances. The purpose of this researchwas to discover andtheconcept of view deeply. Due on ambulation experience early at Islamic Hospital Sakinah, Mojokerto for post-surgical operation appendectomy. The research design usedquestion experiment design, nonequivalent control group design. The population of this research was for all patients of post appendix surgical using anesthesia SAB through surgical at Sakinah Islamic hospital, Mojokertoin 43 respondents. The sample of this researchwasinference population by having selected for post operation in specificcriteria of 30 people consist of 15 conducting person group and 15 in controlling group. The independent variable of this research is a mobilization variable, and the dependent variable is an intestine peristaltic. The result ofpaired-test of mobilization impact shows an interesting data point p=0.000,And a=0.05 thus p<a means that the given Ho mobilization affected for intestine peristaltic therefor,the final result showed there was a mobilizationcausing of intestine peristaltic forappendectomy surgical operation at RSI Sakinah, Mojokerto. A given D5% mobilization is more effective in increasing for intestine peristaltic than non giving mobilization.

Post Operation, Intestines Peristaltic,

mobilization

### **BACKGROUND**

A surgical operation is a medical treatment using an invasive technique opening or presenting a part ofthebody that will be handled by slicing and then being ended covering and needling work of the wound assisted by anesthesia (Susetyowati et al., 2010). The main grievance that often occurs for post-surgical operation is the weakness of body, decreasing patientstrength of muscle, queasy and vomit, nutrients decreasing and duration time of hospitalizing for post-surgical operation patient and also the impact of an abdomen surgeon(Jensen et al. 20110). Amovement normal of peristaltic intestine will be decreasing in a few days depends on various and duration of surgical. Appendicitis disease is a well-known disease in the society as an appendix. The case of appendix perforation for men is 38,7% meanwhile for women is 23,5%. The case perforation for appendix is 10% up to 32% case. The most cases occur for children and old person(Smeltzer and Brenda,2001).

The oftheappendix population in development state such as in Indonesia increased rapidly due to the economic rise and the human alteration lifestyle (Santacrose, b2005). This indication showed that the appendix sufferers in Indonesia ranked a fourth of the world in 2006. The highest appendix case is foramale at the age of 10-14 years and boy is at 15-19 years. The men, getting an appendix disease are more than the women at the puberty age and 25 years old (Evlin 2009). The mobilization is an individual action for nurses in doing treatment.there are a lot of advantages can be gained from the early exercise after a surgical operation, one of those is enhancing rapidly for depth breathing and circulation, and also it can increase urinate andbody metabolism (Taylor, 1997). The mobilization is a basic

humanneed,needed by an individual to do daily activity namely hinges movement, demeanor, walk-style,exercise and activatable (Perry&Potter,2006). The early successful mobilization not only fastens the recovery process ofthewound but also fasten the peristaltic intestine recovery for the patient after surgical operation (Israfi d akhrita,2011). Based on the background above we will therefor research analysis the giving early mobilization forthepost-surgical operation of the peristaltic intestine at Sakinah Hospital Mojokerto.

#### PURPOSE OF RESEARCH

- 1. General purpose
  - To analyze the impact of giving an early mobilization for post operation appendix Patient performs at Sakinah Hospital Mojokerto.
- 2. Particular purpose
  - a. To identify the peristaltic alteration before and after being given mobilization at Sakinah Hospital Mojokerto.
  - b. To analyze the peristaltic alteration before and after being given mobilization at Sakinah Hospital Mojokerto.

#### RESEARCHED METHOD

The research method usedquasi-experimental design. Population in this research was all Patient Post Op Appendix in RSI sakinah Mojokero 43 respondents. The sampling technique used purposive random sampling so that the sample in this study 30 respondents was divided into 15 respondents treatment group and 15 respondents werethe control group. In this study the independent variable was Mobilization, the dependent variable was Perstrastic Perfection. Data analysis used Paired T-Test.

#### RESULT OF RESEARCH

**Table 1**Respondent distribution based on age, gender at RSI sakinah mojokerto 2016 (u:30)

			Frequency %				
No	VARIABEL		Group				
1		≥ 45 tahun	Treatment		Control		
	Age		10	67%	9	60%	
		< 45 tahun	5	33%	6	40%	
2	Gender	Male	12	80%	12	80%	
		Female	3	20%	3	20%	

Based on table 1 above, it showed that due to the age of treatment group. The most respondents are >45 years totally ten respondents (67%). And controlling group showed that the most respondents are>45 years totally nine respondents (60%). Meanwhilefor the gender criteria on treatment group can be known that part of respondents are male totally 12 respondents (80%) and for control group most respondents are male totally 12 (80%).

Table 2

Distribution of frequency respondents for peristaltic intestine post-operation patient before And after treatment

NO	PERISTALTIK USUS			PERISTALTIK USUS			
	SEBELUM	SESUDAH	SELISIH	SEBELUM	SESUDAH	SELISIH	
1	2	12	10	2	13	11	
2	2	11	9	3	14	11	
3	3	13	10	3	12	9	
4	3	10	7	3	14	11	
5	3	12	9	2	12	10	
6	3	12	9	2	13	11	
7	3	11	8	2	9	7	
8	4	8	4	2	13	11	
9	4	12	8	3	13	10	
10	3	12	9	3	8	5	
11	3	13	10	3	12	9	
12	2	7	5	3	13	10	
13	2	6	4	4	13	9	
14	2	12	10	2	13	11	
15	2	12	10	2	8	6	

Based on table 2 above gained that the result those all are ever having had peristaltic increasing after being given mobilization inanaverage of 8,1 for early peristaltic intestine whereas for mobilization group and D5% average on 9,4 of early peristaltic. Both groupshave different average 1.3 means peristaltic for the patient post operation were increasing more for mobilization +D5% than the mobilization of the group only. The result ofthepaired test for theimpact of mobilization shown the point data gaining p=0,000, a=0,05 thus p<a means the given of Ho mobilization effected the peristaltic.

#### **DISCUSSION**

# 1. The Intestine Peristaltic Alteration Before And After Being Given Mobilisation

Based on the table gained the point that those all are getting an increase after mobilizationin average 8,1,it can be concluded that from the final result stated increasing rapidly oftheperistaltic case in average 8,1 for those in the treatment group only with mobilization. This case appropriated closely to Indiarti theory

(2007), stated that the early mobilization is a nursing treatment that being able to recover intestine peristaltic. After having had an operation and the patient is already awake,it will probably occur intestine peristaltic. If the peristaltic doesn't rise yet but the patient forced to have some drinks foods.it worried that intestinewouldn'tnormallyworkso it probably happens of wadding when the food is passing into the intestine (Bararah, 2010). The intestine peristaltic is affected by many factors: age,liquid anesthesiapsychologist, surgeon needed. and physic activity or mobilization (Potter&Perry 2010,pg 405). The early ambulation is extremely important to recover the patient health.the function of early ambulation is clear enough that the physic activities can strengthen the hinge and body muscle. Thus it can decrease the duration time hospitalizing (Halpern 2017). The early mobilization is the nursing action step which can recover the peristaltic (Indiarti 2007,pg 46). The mobilization is an ability to move ourbody confidence and aim freely unto society(Koziel et al.,2011,pg 587). The early mobilization is the vital aspect physicology function due to defend of (Fitriyahsari, 2009). autonomous advantage of an early mobilization to increase blood circulation caused the decreasing of pain, giving nutrient to the wound and keep increasing digestion status normally (Mundy, 2005).

The impactIf the early mobilization is not done, it will cause the difficulty of taking urine and an abdomen distention, nuisance of cardiovascular and breathing up (Mochtar, 2005). The time periodic intestine peristaltic for treatment group and group control faster than treatment

group therefor the early mobilization is so effective to control metabolism system body after the spinal anesthesiaimmobilizationwill

become compulsive. A motility intestine such as pelvic muscle and the weakness of abdomen muscle an meanwhile themobilization can increase the intestine peristaltic (Saryono&Widianti, 2010, Page 37). According to WHO (2012 pg 128). The mobilization can increase the body system usually runs. A normal peristaltic in the intestines will disappear in a few days, and it depends on sort of surgical duration. operation The peristaltic intestine movement is a movement occurring indigestion muscle caused a swell that arising the effect of inhaling or swallowing some foods into the digestion. The effect of theanesthesia agents can closure the nerve parasympathetic impulse into intestine muscle.The anesthesia blocked or closed peristaltic ileus. The patient who doesn't recover the intestine peristaltic after anesthesia it will get obstructive if within the time given foods bestowing. The intestine obstruction is a risky frequently occurs in an abdominal surgical about 60-70% of all abandonment critical cases. The intestine function will be running faster as usual within 2 or 3 days after operation (Oswards 1993). Sjamsulhidayat and jong (1997) explained that the ileus peristaltic that is a situationin which the intestine failed or unable to do peristaltic contraction to spread out its contents. A laparotomy its self is done caused by an intestine sticky and usually happens into the smallintestine (Arif major 2001). The function of peristalticintestine elimination needs and also to fasten the recovery process. The diet program can be given after being operated for the function peristaltic intestine signed gastrointestinal normally.Early canal run mobilization is a significant activity in the post-surgical period to prevent various (Barbara, complications Mobilization is an important aspect of physiological function because it is essential maintain independence 2009). The benefits of (Fitriyahsari, mobilization increased were blood circulation which can lead to pain reduction, nourish the wound healing area and improve the digestive status back to normal (Mundy, 2005). Impact if not performed early mobilization can be difficult to defecate and urinate, gastric distension, respiratory disorders, cardiovascular disorders (Mochtar, 2010). As Kozier (2004) points out, an activity may stimulate the recovery of intestinal peristaltic function to return faster and have a positive effect on the patient's recovery. Immobilization will suppress intestinal motility such as weak pelvic muscles and abdominal muscles, while mobilization may improve intestinal peristalsis (Saryono&Widianti, 2010). According to WHO (2012) mobilization can improve blood circulation and speed up the body system back to normal. So early mobilization is a significant activity in the post-surgical period to prevent various complications (ErlinKurnia, 2018).

# 2. The Intestine Peristaltic Alteration Before And After Being Given Of Mobilisation And D5%

Based on the table previous gained that the point of mobilization group and D5% all are having peristaltic increasing in average 9,4 from peristaltic early. This case due to Indiarti theory (2007) stated that the early mobilization is a nursing

action treatment which able to recover from intestine peristaltic. The DeRosa utility is a liquid needed forthepatient at the intravenous therapy and is necessary for dehydration during the patient is still having a surgical operation or after. The liquid must have several compositions. Glucose fluids 50 gr/1as the substitution of the body vanishing fluids, and our body was re-energy to do its metabolism. And the calory sourcehasthe glucose dosage used 5% of the formula. It added NaCl to have an isotonic fluid in which the glucose here hypotonia, example, in producing Aqua Pi plus H<sub>2</sub>O<sub>2</sub>purposed to disappear off the pyrogen, and in creating of this formula added byNorris to vanish the more of H<sub>2</sub>O<sub>2.</sub>(Halpern, 2017)

#### **CONCLUSION**

mobilization There is a the appendectomypost-operation patient at RSI Sakinah Mojokerto applying of mobilization D5% is more effective in increasing intestine peristaltic than applying to the mobilization **D5%** fluid only. Bvgiving can stimulatetheintestine branch then it causes the peristaltic stimulation.

### **SUGGESTION**

For health service especially at SakinahHospital. They can preserve early ambulation for post operation appendectomy perforate patient. With purpose was to increase the recovery process and their life quality for nursing service. So the nurses can serve the intervention of the early ambulation for the right treatment in post-operation. And it needed and ran optimally for the patient after the post operation, not only by a mobilization just but also begiving for the mobilization + D5%.

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