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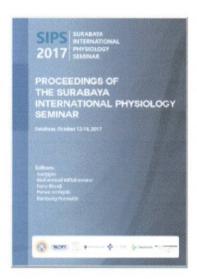


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Proceedings of Surabaya International Physiology Seminar

October 12-14, 2017, in Jawa Timur, Indonesia



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Foreword: Assalamu'alaikum Wr. Wb. Distinguished Guests, all the Participants, Ladies and Gentlemen On behalf of Faculty of Medicine, Universitas Airlangga, it is my great pleasure to welcome all the speakers, moderators, and participants on Surabaya International Physiology Seminar 2017 (SIPS 2017), which will be held from today, October 12th until October 14th, 2017. I would like to express my hearty welcome to all the international speakers, Prof. Cheng Hwee Ming, from University of Malaya, Malaysia; Prof. Daniel John Green, from University of

Western Australia; Dr. Fadzil Hamzah, from Sport Center of Changi General Hospital, Singapore and Dr. Deanne Helena Skelly, from Griffith University, Australia. The aim of SIPS 2017 is to provide a platform for academicians, educators, researchers, practitioners, undergraduate and postgraduate students to share and discuss the knowledge of the recent issues, opinions. researchers about the development and innovation of physiology in medical (More)

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The Influence of Mass Basic Life Support Training on The Skills and Attitude in Undertaking Life Support Using the Method of the Faculty of Medicine, Universitas Airlangga

In Proceedings of Surabaya International Physiology Seminar - Volume 1: SIPS, 26-29, 2017, Jawa Timur, Indonesia

The Influence of Mass Basic Life Support Training on The Skills and Attitude in Undertaking Life Support Using the Method of the Faculty of Medicine, Universitas Airlangga

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1 INTRODUCTION

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2 METHODS

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Keyword(s): Basic Life Support Training, Airlangga University method, non-medical personnel, skill and attitude

Abstract: Abstract: The quality of bBasic ILife sSupport training given by medical students to the public, using methods from the Ffaculty of Mmedicine, Airlangga University, appears to be effective. There is hope that it will affect the success rates of resuscitation by non-medical personnel. This study uses a quasi-experimental design, with total subjects of 1,378 persons. We compared the level of attitudes using a pre-post test, then linked this to the skill level in performing bBasic ILife sSupport after training. The correlation test results show a significant relationship between attitude and skill. Basic ILife sSupport training for non-medical personnel, using methods from the Ffaculty of Mmedicine at Airlangga University, enhances the level of attitude and skill of all participants.





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The Influence of Mass Basic Life Support Training on The Skills and Attitude in Undertaking Life Support Using the Method of the Faculty of Medicine, Universitas Airlangga

Arie Utariani¹, Teguh Sylvaranto¹, April Poerwanto Basoeki¹, Prananda Surya Airlangga¹, Windy Ari Wijaya¹, Soni Sunarso Sulistiawan¹, Bambang Pujo Semedi¹, Christrijogo Sumartono¹, Hamzah¹, Kohar Hari Santoso¹, Philia Setiawan¹ and Eddy Rahardjo²

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Keywords: Airlangga University Method, Basic Life Support Training, Non-Medical Personnel, Skill and Attitude.

Abstract:

The quality of basic life support training given by medical students to the public, using methods from the Faculty of Medicine, Airlangga University, appears to be effective. There is hope that it will affect the success rates of resuscitation by non-medical personnel. This study uses a quasi-experimental design, with total subjects of 1,378 persons. We compared the level of attitudes using a pre-post test, then linked this to the skill level in performing basic life support after training. The correlation test results show a significant relationship between attitude and skill. Basic life support training for non-medical personnel, using methods from the Faculty of Medicine at Airlangga University, enhances the level of attitude and skill of all participants.

1 INTRODUCTION

Cardiac arrest is one of the leading causes of death in the world, as the sudden cardiac death rate is quite high. Cardiac pulmonary resuscitation given by people nearby to the victim is a basic life support for patients who suffer a cardiac arrest. Cardiac arrest events can occur anywhere, and often no medical personnel are present at the scene. Basic life support performed less than four minutes after the incident, followed by cardiac advanced life support, will increase the rate of successful cardiac pulmonary resuscitation. The basic life support training provided by medical staff to the layman or common person is regarded as being effective, and is hoped to positively affect the result of resuscitation performed by the layman. Basic life support training has long been pioneered, and has attempted to be popularized within the community. Many other countries have already mandated basic life support training to the general public, yet this has not been implemented in Indonesia. Until now, no evidence-based data has proven the benefits and influence of basic life support training on the level of assessing the skills and attitudes of ordinary people to performing cardiopulmonary resuscitations in Indonesia. It is important that a study is carried out involving a large number of lay participants, to evaluate and assess the outcomes of such training. Good basic life support training is very important to show the effects of this on the quality of the training results provided. Evaluation should be carried out according to scientific rules. Therefore, there must be research into the effects of basic life support training for the layman, in order to assess the skill and attitude levels of the participants using methods from the faculty of medicine of Airlangga University.

2 METHODS

This study uses a quasi-experimental study design, and involves students from Pondok Pesantren Gontor in Kediri. Students are trained over five hours in basic life support (BLS), and their pre- and post- knowledge levels and attitudes are then

compared (pre-post test design is then linked to the skill level of students in BLS after training). The research was conducted in Gontor Kediri Pondok Pesantren Hall on December 26, 2016, for one day. The population comprised students of Pondok Pesantren Gontor in Kediri, who fit the inclusion criteria. We excluded basic life trainee support (BLS), which is involved in the health sector, and does not follow the training activities from beginning to end. All of the students were tested for attitude levels one hour before BLS training. One hour after BLS training, we evaluated the levels of skill and attitude. A validity test and a check to see whether each participant has ever undertaken BLS were carried out; the data from the questionnaire results was then analyzed. The first analysis uses the Pearson Product Moment method. It is said to be valid if the significance is less than 0.05 and r value count > r table, while reliability was tested with Cronbach's Alpha with a standard of more than 0.5.

2.1 Statistical Analysis

The attitude level data was tested using a paired sample t test; knowledge data was also tested using a paired sample t test; skill data had the scale ratio connected with attitude level and knowledge, which was tested using the Pearson correlation if normal distribution, and if not distributed normally, using Spearman's correlation.

3 RESULTS

The results of the validity test on attitude variables based on the Pearson test have a significant level of less than 0.0s (0.702–0.810), and an r value count of more than r table. With this result, all indicators of attitude stated are valid. Then, the reliability test obtained the value from Cronbach's Alpha of 0.893. The value is greater than 0.5, so the attitude variable is reliable.

The result of the validity test on the knowledge variable based on the Pearson test has a significant level of less than 0.05 (the r value ranges from 0.221 to 0.479) and obtained all r values from r table r. With this result, all indicators of attitude are valid. Following this, the reliability test obtained the value from Cronbach's Alpha of 0.591. This value is more than 0.5, and is considered to be reliable. The next stage eliminated the variable number 14, because it has a low Pearson correlation value (0.221). Additionally, if this item is eliminated it will increase the Cronbach's Alpha value to 0.608. The

results of the validity test on the knowledge variables after the knowledge question 14 were eliminated, based on the Pearson test having a significance level of less than 0.05 (r values ranging from 0.342 to 0.480) and obtaining all values of r count? r table. With this result, all indicators of attitude are valid. Then, the reliability test obtained the value from Cronbach's Alpha of 0.608.

Table 1: Description and independent test variable result.

Variable	Group	Pre/ Post	N	Min	Max	Mean	Gap	t value	P
	Fe- male	Pre	53	4.03	4.60	4.37± 0.15	-	_	0.0
		Post	53	4.47	4.95		0.39	17.581	00
	Male	Pre	101	3.84	4.78	4.34± 0.21	-	-	0.0
		Post	101	4.20	5.00	4.66± 0.18	0.32	17.902	00
	Total	Pre	154	3.84	4.78	4.35± 0.19	-	_	0.0
		Post	154	4.20		4.70± 0.17	0.35	24.245	00
	Fe- male	Post	53	10.7 7		14.22 ±0.83			
	Male	Post	101	11.6	15.0 0	14.34 ±0.83			
	Total	Post	154	10.7 7	15.0	14.30 ±0.83	TIC		

This value is more than 0.5, and is considered to be reliable. The results of the validity test on the skill variable, based on the Pearson test, has a significance level less than 0.05 (r value ranges from 0.183 to 0.472) with the r arithmetic? r table. With this result, all indicators of attitude are valid. Next, the reliability test obtained Cronbach's Alpha value of 0.556. This value is more than 0.5, so the questionnaire is considered reliable and acceptable. Further, confirmed by Cronbach's Alpha test, it was not found that if the item question is removed, this will increase the reliability value of Cronbach's Alpha.

Table 2: Correlation test.

Correlation		Skill			
		Female	Male	Total	
Attitude	Female	0.327*			
		(0.017)			
	Male		0.316**		
			(0.001)		

T. 4.1		0.220**
Total		(0.006)

^{*} Significantly correlated at 0.05 level (2 tailed)

Kolmogorov Smirnov is used to determine from the statistical test that the roots of normality are normal if the significance of the results obtained are more than 0.05. All subsequent data is used to test the data normality. Normal distribution test results are gained, except on the male skill data (Kolmogorov Smimov 0.000 test scores) and overall sample skill (Kolmogorov Smimov 0.000 test scores). Normally distributed data will be tested using abnormally distributed statistics to be tested with nonparametric statistics. Normally distributed data will be tested before and after parametric statistics with a paired sample t test and correlation test using Pearson correlation, while abnormal data is tested using Wilcoxon, and correlation using Spearman correlation.

4 DISCUSSION

Information can improve someone's knowledge about problems, which in turn can contribute to behavioral changes. Having knowledge is not always followed by behavioral changes, and such distances exist between them. Ideally, every knowledge improvement is followed by behavioral and attitude changes, but some factors can disrupt that ideal condition (Wik, 1994). Gaining knowledge can be a foundation to behavioral and attitude changes. Repeated strengthening and efforts are needed to make behavior and attitude advance according to the knowledge. Strengthening can be done based on a theory of planned behavior, which encourages everyone around us to learn BLS. BLS should be seen as a good thing based on social norms, so everybody can be motivated if they believe in the norm. Each person's behavioral beliefs will perceive and receive the social acknowledgment that BLS is a positive thing. A combination of 'motivation to comply' and 'behavioral belief' will push everybody to know how to perform BLS properly, which is manifested in people's behavior and confidence in BLS (perceived behavioral Knowledge, skill, and behavior are important for proper basic life support, which will manifest in people if there is a balanced theory of planned behavior. It cannot be done solely by method, or one person alone. It needs a social effort to motivate and give support to every person to reach the objectives,

which is "saving lives for everybody, and by everybody".

5 CONCLUSIONS

Our research concludes that mass BLS training undertaken by the method of Faculty of Medicine, Universitas Airlangga, was successful in improving knowledge, skills, and behavior. Repeated efforts should be made to reach our social objectives. Our kind of method in training for BLS should be tried and tested in another population, making it into a better method for the future.

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^{**} Significantly correlated at 0.01 level (2 tailed)

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