



5th International Agronursing Conferences

In Conjunction with 1st International Post Graduate Nursing Student Conference (IPGNCS)

PROCEEDING

Chronic Care Management : Bridging Theory & Practice In Healthcare Services



May, 11th - 12th
2023



**5th International AgroNursing Conference in Conjunction
with 1st International Post Graduate Nursing Student
Conference (1st IPGNSC) 2023
“Chronic Care Management: Bridging Theory and Practice”**

Jember, May 11th – 12th, 2023

PROCEEDING

**FACULTY OF NURSING
UNIVERSITY OF JEMBER**



REMARK

Bismillahirrohmanirrohim
Assalamualaikum Wr Wb
Good morning and greetings

The Honorable, Rector of University of Jember
The Honorable, All Speakers of the fifth international nursing conference In Conjunction with first International Post Graduate Nursing Student Conference
The Honorable, Guests, all dean of the faculties in University of Jember, Director of hospitals, primary health center, and other guests.
The Honorable, Conference Committee
Dear All oral presenters, poster presenter and Participants of the conference

Alhamdulillahirobbil'alamin, we praise the presence of Allah SWT; because of the blessing, we all can be present here in this auditorium to attend the fifth international nursing conference In Conjunction with first International Post Graduate Nursing Student Conference, Faculty of Nursing. Salawat may always be delegated to the Great Prophet Muhammad SAW.

Ladies and Gentlemen,

As the beginning of this speech, I would like to welcome all of you to the fifth international nursing conference In Conjunction with first International Post Graduate Nursing Student Conference, with the theme " Chronic Care Management: Bridging Theory and Practice". It is an honor to facilitate health professionals from around the world to enhance health sciences.

As a nurse, we can provide holistic care that addresses not just the physical needs of our patients but also their emotional, social, and spiritual needs. By taking the time to listen and understand our patients' unique situations, we can take care to meet their needs best and help them achieve their health goals.

In addition to caring for our patients, it is also important to care for yourself. Nursing can be a demanding and emotionally taxing profession, and it is crucial that we can take steps to prioritize our well-being. This can include things like practicing self-care, seeking support from colleagues or a mental health professional when needed, and taking time off to rest and recharge.

To answer that question, on May eleventh and twelfth of may, twenty twenty-three, we will discuss and enhance this topic with speakers from four countries: Australia, the United Kingdom, Thailand, Taiwan, and Indonesia. Not only that, in the series of international conferences, this time, there will be a guest lecturer in collaboration with community service from Western Sydney University (WSU) Australia. Thanks to Associate Professor Caleb Ferguson and the team who have attended and shared with us. This collaboration can continue and improve the knowledge of the profession we love. We also call the researchers to join not only the conference but also to share their research through oral presentation or poster presentation.



Ladies and Gentlemen

This conference is attended by undergraduate and postgraduate students, lecturer and health care professional from Asia Pacific and Australia. We have more than thousand registrants with two hundred participants able to attend on this room.

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, Indonesian National Nurses Association (INNA) and all the committees who have worked hard to carry out this activity.

I sincerely hope that this conference will deliberate and discuss all different facets of this exciting topic and come up with recommendations that will lead to a better and healthier new world.

I wish this conference great success. Aamiinn.

Wassalamualaikum Wr. Wb.

Dean Faculty of Nursing
Ns. Lantin Sulistyorini, M. Kes



GREETING MESSAGE

Bismillahirrohmanirrohim
Assalamualaikum Wr Wb
Good morning and best wishes

The Honorable, Rector of University of Jember
The Honorable, Dean School 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 AgroNursing Conference. In Conjunction with first International Post Graduate Nursing Student 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 fifth international nursing conference In Conjunction with first International Post Graduate Nursing Student Conference, with the theme " Chronic Care Management: Bridging Theory and Practice".

Chronic care refers to the ongoing, long-term medical care and support provided to individuals with chronic or long-lasting health conditions such as diabetes, heart disease, arthritis, and asthma, among others. Chronic conditions often require ongoing management and treatment to control symptoms, prevent complications, and improve quality of life.

Chronic care may involve a team of healthcare professionals, including primary care physicians, nurses, specialists, physical therapists, and other healthcare providers, who work together to develop and implement a comprehensive care plan tailored to the individual's needs.

The goal of chronic care is to improve the health and well-being of individuals with chronic conditions by providing ongoing, patient-centered care and support that helps them manage their symptoms, maintain their independence, and prevent complications. What is the latest application of chronic care management, bridging theory and practice?

To answer that question, then for the next two days starting from today on 11-12 May 2023 at Auditorium of Universitas Jember, we will discuss the Chronic Care Management: Bridging Theory and Practice with speakers from 5 countries namely:

1. Assoc. Prof. Caleb Ferguson (Australia).
2. Assoc. Prof. Wasana Ruaisungnoen (Thailand)
3. Dr. Asri Maharani, MMRS, Ph.D (United Kingdom)
4. Assoc. Prof. Chi-Yin Kao (Taiwan)
5. Ns. Muhamad Zulfatul A'la, M.Kep, Ph.D (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, Auditorium of Universitas Jember 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.

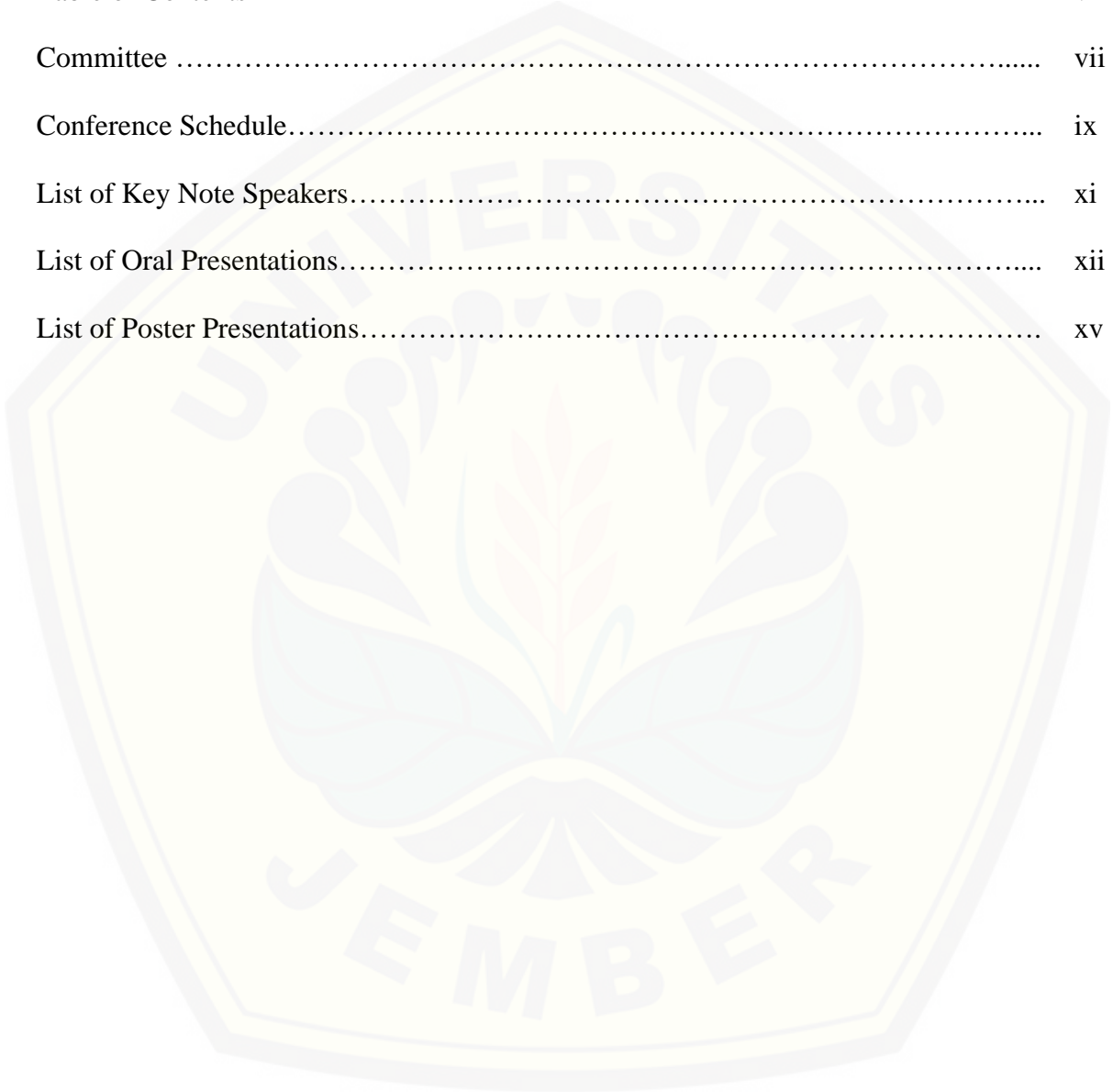
Chairperson

Dr. Ns. Rondhianto, M.Kep.



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Ns. Zaiful Rahman, S.Kep.

Key Note Speakers

Associate Professor Caleb Ferguson RN PhD.
Wasana Ruaisungnoen, PhD RN
dr. Asri Maharani, MMRS, Ph.D
Ns. Muhamad Zulfatul A'la, S.Kep., M.Kep., Ph.D



Conference Schedule
5th International Agronursing Conference (5th IANC) in conjunction with
1st International Post Graduate Nursing Student Conference (1st IPGNCS)
“Chronic Care Management: Bridging Theory and Practice
in Healthcare Services”
Jember, May 11-12th, 2023

FIRST DAY (07.00 – 16.00)

Time (WIB) GMT + 7	AGENDA
REGISTRATION	
07.00 – 08.00	Registration – Log in Zoom Meeting
OPENING CEREMONY	
08.00 – 09.00	Opening Ceremony Report Speech Dr. Ns. Rondhianto, M.Kep. (The Chairman Committee) Welcome Speech: 1. Ns. Lantin Sulistyorini, S.Kep., M.Kes. (Dean Faculty of Nursing, Universitas Jember, Indonesia) 2. Dr. Ir. Iwan Taruna, M.Eng., IPU (Rector Universitas Jember, Indonesia)
09.00 – 09.15	Coffee Break
PLENARY SESSION I	
09.15 – 10.15 (ICT)	PLENARY I (Offline) -- (45 + 15 mins Q&A) SPEAKER I Assoc. Prof. Caleb Ferguson (Western Sydney University, Australia)
PLENARY SESSION II	
10.15 – 11.15 (AEDT)	PLENARY I (Online) -- (45 + 15 mins Q&A) SPEAKER II Assoc. Prof. Dr. Wasana Ruaisungnoen (Khon Kaen University, Thailand)
11.15 – 12.30	Lunch & Pray



PLENARY SESSION III	
12.30 – 13.30 (BST)	PLENARY III (Online) -- (45 + 15 mins Q&A) SPEAKER IV Dr. Asri Maharani, MMRS., Ph.D. (The University of Manchester, United Kingdom)
14.00 – 14.30	Coffee Break & Break out Room
ORAL PRESENTATION AND POSTER EXHIBITIONS DAY-1	
14.30 – 16.00 (15 mins/ presenters)	ORAL PRESENTATION <i>6 presenters/room (48 presenters/8 rooms)</i>

SECOND DAY (07.00 – 13.00)

Time (WIB) GMT + 7	Agenda
REGISTRATION	
07.00 – 08.00	Registration – Log in Zoom Meeting
PLENARY SESSION IV	
08.00 – 09.00 (JST)	PLENARY IV (Online) -- (45 + 15 mins Q&A) SPEAKER IV Assoc. Prof. Chi-Yin Kao (National Cheng Kung University, Taiwan)
PLENARY SESSION V	
09.00 – 10.00 (WIB)	PLENARY IV (Offline) -- (45 + 15 mins Q&A) SPEAKER V Ns. Muhamad Zulfatul 'Ala, M.Kep., Ph.D. Faculty of Nursing, Universitas Jember, Indonesia
10.00 – 10.15	Coffee Break & Break out Room
ORAL PRESENTATION AND POSTER EXHIBITIONS DAY-2	
10.15 – 11.00 (15 mins/ presenters)	ORAL PRESENTATION <i>3 presenters/room (24 presenters/8 rooms)</i>
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IMPROVING STUDENTS' HANDS ONLY CPR SKILLS THROUGH BLS SIMULATION ACTIVITIES: A PRE-EXPERIMENTAL STUDY AT KHOMSANI NUR BOARDING SCHOOL IN LUMAJANG

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ABSTRACT

Background: Out-of-Hospital Cardiac Arrest (OHCA) or better known as cardiac arrest is the leading cause of death in emergency cases. Quality Cardiopulmonary Resuscitation (CPR) is by performing compression and ventilation so as to help victims of cardiac arrest to survive. But many people do not know about the procedure for giving CPR to victims of cardiac arrest. The purpose of this study is to increase the knowledge of santri as part of the community about the proper and correct CPR procedures. Translated with www.DeepL.com/Translator (free version). **Methods:** The research method used pre-experimental with pre post test approach. The population of this research is the students of Khomsani Nur Lumajang boarding school, totaling 37 people.. **Results:** Data analysis used the Wilcoxon signed rank test. As a result, hands only CPR training has a positive effect on the knowledge and skills of students in performing CPR with a p-value of 0.0001. The average score before the hands only CPR simulation with a minimum score of 20 and a maximum score of 75, and the average score after the hands only CPR simulation with a minimum score of 75 and a maximum score of 100, it can be seen that there is an increase in respondents about Hands Only CPR. This shows that there is a relationship between education or training and the level of knowledge of respondents.. **Conclusions:** Hands only CPR training can improve the knowledge and skills of students in providing assistance using hands only CPR to victims of cardiac arrest emergencies.

Keywords: Emergency, First Aid, Student Health Response

INTRODUCTION

Out-of-Hospital Cardiac Arrest (OHCA) or better known as cardiac arrest and respiratory arrest cases that occur outside the hospital is the most life-threatening emergency condition and can occur anywhere, anytime and can affect anyone (Sumartini et al., 2021). Cardiac arrest is a condition in which the heart stops pumping blood, causing blood flow to stop and causing a decrease in the functioning of organs in the body (Santoso

et al., 2022). Data suggests only about 25% to 30% of patients with OHCA initially achieve return of spontaneous circulation (ROSC) and are hospitalized (Jentzer & Callaway, 2018). This low score is due to the victim getting help too late or the time when the victim was found had passed the golden time and mistakes in performing first aid when the victim was first found (Sudarman, 2019).

Providing early help is most beneficial if it is done as quickly and well



as possible. It is better to be helped, even if imperfectly, than to be left without help (Wulandini et al., 2018). Appropriate first aid in cases of cardiac arrest is basic life support (BLS) (Zuhroidah et al., 2021). Patients with cardiac arrest have a chance to live again or their lives are saved when they immediately get Basic Life Support (BLS) help quickly and accurately, the first aid that can be done is CPR. Someone who finds a victim of cardiac arrest and respiratory arrest should immediately contact Emergency Call and then immediately perform Cardiopulmonary Resuscitation (CPR) / external heart massage to help the victim survive (Sudarman, 2019). Effective CPR is to perform compressions followed by ventilation (Maisyaroh et al., 2023). If cardiopulmonary resuscitation is performed immediately, the survival rate is 75% (Kleinman et al., 2015).

Understanding the basic concepts of emergency aid is not only important for health workers but also for non-health workers so that they can provide assistance when they find victims in life-threatening conditions. Santri are one part of the community that can be given BHD training and they are also at an adolescent age that is vulnerable to these emergency situations. This emergency training is important for students, so that they can be utilized in providing initial aid in the boarding school environment and when they are in the general public (Zuhroidah et al., 2021).

Based on the results of interviews with one of the caregivers and students of Khomsani Nur Lumajang Islamic boarding school, Khomsani Nur Islamic boarding school does not yet have a Pondok Kesehatan Pesantren (POSKESTREN) device and has never received training and assistance in Basic Life Support (BHD) so that if an emergency occurs in the boarding school environment and its surroundings, the victim will be taken directly to the nearest health service center

without performing first aid at the scene due to limited abilities. One of the efforts to improve the ability of students to perform CPR by hand (hands only) through training activities. Research results Widyarani (2018) stated that CPR training had an effect on participants' knowledge and skills. The average score of initial knowledge was ± 44.43 and the average score after training was ± 89.64 , which showed an increase in participants' knowledge in performing CPR.. The results of this study are in line with research Widyarani (2018) which states that a person's knowledge is influenced by the learning process and individual observation since obtaining exposure and will decrease within a certain time frame. So that this hands only CPR training can provide a learning process and exposure that can increase the knowledge of Khomsani Nur Lumajang boarding school students.

The purpose of this activity is to analyze the effectiveness of the simulation method in improving students' skills in performing hands-only CPR on victims of cardiac arrest emergencies.

METHODS

The method used in this research is pre-experimental with a one group pre post test design approach. The sample involved in this study amounted to 37 respondents who were determined using purposive sampling technique. The inclusion criteria that researchers use include: 1) Santri who are at the Mts / MA education level or equivalent, 2) Have never attended or received BLS training, 3) Willing to participate in this study by signing an informed consent sheet. Data collection activities began with measuring the ability of respondents to perform CPR using the CPR assessment observation sheet for lay people as a form of pre-test. Then the respondents were given BLS simulation material and CPR practicum only by hand. After that, the respondents' ability to



perform CPR only by hand was measured again. The measurement results before and after the BLS simulation were analyzed using the Wilcoxon signed rank test.

RESULTS

The demographic characteristics of the participants' gender found that the

number of female and male participants was almost equal, namely 20 male participants and 17 female participants. The average age of the participants was 18 years old. The education level of the participants ranged from junior high school to senior high school (Table 1).

Table 1. Demographic Data

	Frequency (Σ)	Percentage (%)
Gender		
Male	20	54,06
Female	17	45,94
Age		
11 – 13 Years	10	27,03
14 – 16 Years	18	48,65
17 – 19 Years	9	24,32
Education Level		
SMP/MTs	13	35,14
SMA/MA	24	64,86

The results of data analysis showed that the minimum score of participants before being given hands only CPR simulation was 20, while the maximum score was 75. However, after the

participants were given hands only CPR simulation, the participants' scores increased with a minimum score of 17 and a maximum score of 100 (Table 1.2).

Table 2. Data Analysis Results

	Pre-test Hands Only CPR	Post-test Simulasi Hands Only CPR
Minimum Value	20	75
Maximum Value	45	100
Mean \pm SD	28,51 \pm 7,44	98,10 \pm 4,90
Normality Test (Shapiro Wilk)	0,001	0,0001
<i>Wilcoxon Signed Rank Test</i>		0,0001

DISCUSSION

Based on table 1.1 of the characteristics of respondents based on the gender of the research results, 20 respondents were male with a percentage (54.94%) and 17 women with a percentage (45.94%). According to Arifin et al. (2019) mentioned that males generally have a stronger physique when compared to females during pregnancy and

menstruation. So men can last longer in performing first aid using the PCR technique while waiting for help to arrive.

Based on table 1.1, the characteristics of respondents based on the age of the research results obtained at the age of 11-13 years, there were 10 respondents with a percentage (27.03%), ages 14-16 years as many as 18 with a percentage of 48.6, and ages 17-19 as



many as 9 respondents with a percentage (24.32%). According to Ngurah & Putra (2019) stated that age is one of the factors that can describe a person's maturity both physically, psychologically and socially so that it helps a person to be better able to shape behavior. Age affects a person's capacity and mindset. The older the age, the more developed the power of capture and mindset, so that the knowledge gained is getting better. Age maturity will affect the thought process and decision making in determining something.

Based on the level of education in table 1.1, 13 respondents were educated or still attending junior high school / MTs and 24 respondents were educated or still attending high school / MA. The results of this study showed that the respondents with the most hands only CPR training were SMA / MA education. Arifin et al. (2019) mentions that education is one of the guidance that a person gives to people about something so that they can understand it. It cannot be denied that the higher a person's education, the easier it will be for them to receive information. The more information one has, the greater one's knowledge. According to Arifin et al. (2019) Health education has a very important role for individuals, communities, and groups in adding information obtained through the learning process so that attitudes and skills that were initially poor become good and correct. The lack of knowledge and information received or respondents have never received material about CPR makes respondents unable to perform first aid with the CPR method when meeting with victims of cardiac arrest.

Based on the results of research conducted by researchers on 37 respondents. The results of this study indicate that the level of knowledge of respondents before education about hands only CPR, the average score of respondents' knowledge at the time of pre-simulation of hands only CPR got a

minimum score of 20 and a maximum of 75 and after training there was an increase in value to a minimum score of 75 and a maximum score of 100. These results are in line with research Maulidya et al. (2022) stated that the level of knowledge of all respondents increased rapidly. So it can be concluded that there is a relationship between education or training and the level of knowledge of respondents, this is because after all respondents receive information presented by extension workers, the level of knowledge of respondents increases. The provision of PCR training can affect the respondent's affirmation towards a better direction before the hands only CPR training. In addition, the advantage of training with this lecture and simulation method is that each respondent can witness in real time how to PCR properly and correctly and the extension agent can directly provide material and directly monitor the course of training.

Based on the results of the normality test (Shapiro Wilk), the Wilcoxon signed rank test obtained a value of 0.0001, these results indicate a significant change in respondents in performing or applying hands only CPR. This is supported by the results of the post-simulation value of hands only CPR, there is a difference or increase in the minimum and maximum values.

Respondents showed that they could perform CPR on pantums properly and correctly, and understood the stages of first aid with the CPR method.

CONCLUSION

The conclusion of this study is that there is an effect of increasing knowledge, skills, and application in respondents who take CPR training by hand in performing cardiac arrest emergency assistance.

SUGGESTION

Suggestions from researchers, namely hands only CPR training, maybe in



the future it can be modified or given with video methods or added with music so that it is even more interesting and makes respondents' interest even more increased.

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