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# "A PHARMACOECONOMIC STUDY: COST-UTILITY ANALYSIS OF MODERN WOUND DRESSINGS VS CONVENTIONAL WOUND DRESSINGS IN PATIENTS WITH DIABETIC FOOT ULCER IN WOUND CARE CLINIC"

explained that the aforementioned documents have been read and evaluated in grammar and punctuation without changing the meaning & information from the original document.

Yogyakarta, November 19, 2020

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<u>A</u>Pharmacoeconomic <u>StudiesStudy</u>: Cost-Utility Analysis of Modern Wound Dressings <u>Versus-vs</u> Conventional Wound Dressings in <u>Patients with</u> Diabetic Foot

Ulcer Patients in Wound Care Clinics

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#### Abstract

Diabetic foot ulcers (DFU) are complications resulting from neuropathic symptoms that require long-term treatment. Duration of treatment and outcome of therapy is-are one some of the factors that affect the quality of life of patients and will have an impact on require higher medical costs. One of the DFU treatments is by using both modern and conventional wound dressings;, both modern and conventional. The use of modern wound dressings provides higher benefits but is expensive compared to conventional wound dressings. This study aims-aimed to choose an alternative wound dressing that provides the best utility / quality of life at the most efficient cost. The research method used is-was pharmacoeconomics, in the form of utility analysis with the Diabetic Quality of Life (DQOL) questionnaire and cost analysis with a patient's perspective. The research was conducted in at a wound care clinics and several public health centercenters. The number of samples obtained were consisted of 11 patients using modern wound dressings and 5 patients using conventional wound dressings, for a total of 75 visits. The results showed that: (1) the everage mean cost of modern wound dressings was IDR 347,131/visit, while that of conventional wound dressings were-was IDR 47,140/visit; (2) Patients with modern wound dressings had a high average of quality of life (100.4), while patients with conventional wound dressings had a moderate average of quality of life (87.25) and the comparison of the quality of life of both was significantly different with P value < 0.05; (3) The ICUR value is-was IDR 22,813/QOL. The conclusion is that modern wound dressings provide a higher quality of life at a higher cost. To change from conventional wound dressings to modern wound dressings, it costs more than IDR 22.813 to increase 1 unit of quality of life, but patients get an additional 13.15 quality of life.

Keywords: **pharmacoeconomics**, cost-utility analysis, diabetic foot ulcer, wound dressing, DQOL questionnaire

Introduction

user And Public Health Centers? According to WHO, diabetic foot ulcers (DFU) occur due to diabetes accompanied by reduced blood flow of-or neuropathy in the legs, which can lead to infection, to even leg amputation [1]. It is estimated that around 5.3 million people suffer from DFU in Indonesia and it is the <u>most common</u> cause of the most hospital admissions (80%) for Diabetes Mellitus [2]. DFU is-still <u>lacking-lacks</u> attention so-<u>which</u> that the <u>makes its existing</u> basic concept appears that is to be not precise, as a result <u>consequence</u> many patients develop osteomyelitis, sufferers until even amputation [3]. In 2010-2011, the incidence of amputation in Indonesia due to DFU increased sharply from 35% to 54.8% [3].

Diabetic ulcers are the most feared chronic complication for diabetes mellitus suffererspatients, both in terms of <u>both the duration length and cost</u> of treatment, the high cost required for treatment which costs 3 times more than the treatment of diabetes <u>mellitus</u> without ulcers [2]. In Indonesia, diabetic ulcer patients require a high cost of 1.3 million to IDR. 1.6 million per month and IDR 43.5 million per year for a sufferer patient [2].

From the onset of the wound, patients need more rapid wound care. There are 30 days time-needed to prevent breakdowns, infections, and amputations, because prompt <u>immediate</u> intervention can save <u>both the</u> costs and <u>save</u> the patient's leg [4]. Interventions that are cost-saving and feasible in developing countries according to WHO include: moderate blood glucose control, blood pressure control, and foot care [1].

The use of modern wound dressings, for example foam dressings, has major advantages, namely the ability to **load** exudates, high absorption, is-effectiveness for heavy dripping wounds, reduces pain, is easy to remove, and protects the <u>periwound</u> area around the wound from <u>additional trauma</u> further damage [5,6]. On the other <u>hand</u>, Compared to conventional wound dressings (wet-dry gauze with normal saline) it is <u>incapable</u>-<u>unable</u> of to maintaining a moist environment, where-while moisture can provide optimal conditions for wound healing. Gauze can interfere with wound healing because it dries out and causes tissue damage when the gauze is removed [5]. In addition, conventional treatments take longer to heal [7]. Based on several studies, it was found that modern wound dressings provide 100% <u>healing</u> effectiveness in the form of healing while conventional wound dressings <u>only</u> have 50% healing effectiveness; <u>other Other</u> results <u>showed that are</u>-the use of modern wound dressings such as hydrogel is 3 times

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more effective than 0.9% NaCl and the use of modern moist wound dressings. Wound Healing healing is more effective than NaCl 0.9% + real honey [8-10].

It's-Unfortunately, just that modern wound dressings are more expensive than conventional wound dressings. Based on the research, it was found that modern wound care provides better comfort because it reduces the smell of the wound, but financially conventional wound dressings are more cost-effective because they use health insurance from the government [11].

So <u>Therefore</u> it is necessary to <u>do-conduct</u> a <u>pharmacacoeconomic</u> analysis with a cost-utility analysis on the use of modern wound dressings compared to conventional wound dressings, to <u>get\_determine</u> which wound dressings are the <u>most cost-utility</u> by looking at the results of the quality of life of DFU patients using the DQOL (Diabetic Quality of Life) questionnaire <u>compared to the average</u>, the total cost of each wound dressing. This study <u>eime-aimed</u> to choose an alternative wound dressing that provides the best utility or quality of life at the most cost efficient way for diabetic foot ulcer patients.

#### Material and Method

This research is-was\_a pharmacoeconomy pharmacoeconomy charmacoeconomy charmac

The population and sample of the study were all diabetic foot ulcer patients who needed wound dressings at the AWCC Lombok wound care clinic and several public health center-centers (*pushesmasPuskespags*) in West Lombok Regency and Mataram City. The sampling technique used was total sampling. Obtained a <u>A</u> total sample of 16 patients were obtained, consisting of 11 patients using modern wound dressings and 5 Merrang hanya wound healing saja di sini?

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patients using conventional wound dressings. Total The total patient visits were 75 visits, namely-consisting of 55 visits by patients with modern wound dressings-were 55 visits, while-and 20 visits by patients with conventional wound dressings-were 20 visits. Informed consent was obtained from all the patients. Calculation of The utility and cost were calculated based on the visits of each patient. The utility and cost comparisons were performed statistically using the SPSS version 20 software application.

#### Results and Discussion

#### Overview of Utility of Diabetic Foot Ulcer Patients-Utilities

In this study, the patients' demographic data obtained were gender, age, grade of diabetic foot ulcers, education, occupation, marital status, and smoking status. This is based on factors that affect the quality of life of diabetes mellitus patients, namely gender, age, education level, ethnicity, and marital status [13].

Diabetic foot ulcer patients who use-used modern wound dressings of consisted of patients with various grades of wounds, ranging from grade 4, 3, 2, and 1. Similarly, patients who use used conventional wound dressings consisted of those with from grades 3 and 1. The patients selected as the samples are-were those who need-needed wound dressing. All the patients were followed by the development of their quality of life from the time they first came to the clinic or public health care (puckeeman Puckeeman), until they were declared cured-healed or did not no longer need-needed wound dressing. So This way, that the average-mean utility and costs are-were calculated based on the total visituisits.

Patients with modern wound dressings were only found in at wound care clinics, namely AWCC Lombok, while patients with conventional wound dressings were only found in-at several public health centerspuskesmas, namely several puskesmas in West Lombok Regency and Mataram City-, so-In other words, the there were two different research locations were different.

Table 1. Overview of Utility of Diabetic Foot Ulcer Patient Patients Utilities Modern Wound Dressing Conventional Wound Dressing SumTotal Persentage SumTotal Persentage Mean Utilitas Mean Der

Demography (n=11) Demography	a UtiliteLitilitas (n	=5) Percentage, .Average[Itility	
of patients	N- Trundarumer fe		
	Average	(n=20)	Pormatteo: Inconesian
	(n=55)		user Formatted: Indonesian

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Gender							
Male	5	45.45%	104.38±9.49	3	60%	89.25±6.94	
Female	6	54.55%	97.32±15.01	2	40%	84.25±7.59	
Age							
< 46 years old	2	18.18%	106.00±5.46	2	40%	85.63±6.44	
≥ 46 years old	9	81.82%	99.16±14.19	3	60%	88.33±8.14	
Education							
< <u>SMASenior</u>	5	45.45%	94.42±14.67	3	60%	84.00±6.15	user
High School	6	54.55%	105.76±9.19	2	40%	92.13±6.77	Formatted: Inde
≥ <u>Senior High</u>							
SchoolSMA							
Occupation							
Work	10	90.91%	99.24±13.33	3	60%	90.00±7.81	user
Employed	1	9.09%	112.00±4.00	2	40%	83.75±5.60	Formetted: Inde
<del>No <u>Not</u></del>							
Employed Work							
Marital Status							
Married	10	90.91%	103.94±9.97	4	80%	87.38±7.21	
No-Unmarried	1	9.09%	79.63±11.29	1	20%	86.75±4.57	
Smoking							
Status	3	27.27%	102.33±9.96	2	40%	85.13±4.09	
Smoking	8	72.73%	99.68±14.36	3	60%	88.67±8.93	
No <u>t</u> Smoking							

The utility scoring on DQOL is-: <u>the score for</u> low quality of life <u>score-was</u> less than 60, <u>that for</u> moderate quality of life <u>was</u> between 60-90, and <u>that for</u> high quality of life <u>was</u> more than 90 [12]. From Table 1 it can be seen that <u>almost all the</u> patients with diabetic foot ulcers who <u>use-used</u> modern wound dressings <u>almost all have had</u> an <u>average</u> <u>high</u> quality of life : <u>high</u>, except for the <u>those who were</u> <u>statue of the</u>-unmarried-partner, <u>who had moderate</u> the quality of life <u>is moderate</u>. Whereas <u>Meanwhile</u>, <u>patients</u> <u>in-using</u> conventional wound dressing <u>users</u> who <u>have had</u> high quality of life <u>consisted of only in</u> <u>patients with those who graduated from</u> high school <u>education and or</u> above, and <u>patients</u> those with who were employed working status. So Thus, it appears that modern wound dressings provide provided a high average mean utility compared to conventional wound dressings. Based on a research conducted at Karanganyar, General Hospital, the quality of life of diabetes mellitus patients was significantly influenced (P <0.05) by gender, age, education, disease duration of suffering, including complications in the form of diabetic ulcers [14].

Complications experienced such as diabetic ulcers can result in a lower quality of life in diabetes mellitus patients, where these complications can result in limitations both physically, psychologically, and even socially limitations [12]. Based on the results of a research conducted by Utami (2014), patients with diabetic ulcers have had a low quality of life where physical health is closely related to patient feelings about the pain and anxiety experienced by the patients, dependence on medical care, energy and fatigue, mobility, sleep. and rest, daily activities, and work capacity [15].

Cost of Modern Wound Dressing and Conventional Dressing

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The cost calculation is-was carried out based on the patient's perspective, so that the calculated cost components are-were direct medical costs consisting of wound dressing costs and wound care feescost, direct non-medical costs (homecare costs for modern wound dressing patients and transportation costs for conventional wound dressing patients), and indirect costs, namely the cost of lost productivity. The cost of lost productivity is was calculated based on the human capital approach, which is to calculate the number of days lost due to illness or treatment according to the income earned every day [16].

•		Visits			
		Modern Wound	Conventional Wound		
	Cost	Dressing	Dressing	P-value	user
	Componen Components	(n=55)	(n=20)	Auge	 Formattee
		Total IDR	Total IDR.		
	Direct Medical Cost	IDR 12,034,000	IDR 0	0.000*	
	- Cost of wound	(IDR 5,094,000)	(IDR 0)		
	dressing	(IDR 6,940,000)	(IDR. 0)		
	- Cost of wound care				

#### Table 2. Cost of Modern Wound Dressing and Conventional Dressing Perper ----

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Direct non-medical cost	IDR 1,650,000	IDR 88,000	0.000*
Indirect Cost	IDR 5,408,223	IDR 854,795	0.009*
Total cost	IDR 19,092,223	IDR 942,795	
Average-Mean_Cost	IDR 347,131±129,309	IDR 47,140±39,183	0.000*

Based on table-<u>Table</u>2, the direct medical cost of conventional wound dressings was IDR 0,-<u>\_\_it-This</u> is because the patient <u>carries-underwent\_out</u> wound care at the <u>puskesmas-a public health center so that it which</u> is free of charge. The medical direct costs <u>ere-were</u> borne by the <u>Social Security Administrator for Health (BPJS Kesehatan)</u>. <u>Patients-The patients</u> only <u>incur-incurred</u> direct non-medical costs in the form of transportation costs from home to the <u>puskesmespublic health center</u>. Meanwhile, the direct non-medical cost of modern wound dressings <u>in-was</u> high because the <u>patient</u> <u>patients</u> performs-<u>performed</u> wound care at home. The average cost of modern wound dressings was IDR 347,131, <u>which is or</u> 7 times higher than the total cost of conventional wound dressings.

Based on <u>the</u> statistical results, it was found that there were significant differences in <u>the</u> direct medical costs, direct non-medical costs, indirect costs, and the average cost between modern and conventional wound dressings with a P value < 0.05. According to the results of <u>a</u> research conducted at Karanganyar General Hospital, complications significantly affected direct medical costs (P < 0.05), and the average cost of complications for diabetes ulcers was IDR 765,662.00 ± 42,085.58 [14].

According to the results of <u>a</u>\_research conducted at Sanglah General Hospital Denpasar, it was found that the average cost of modern wound dressings was IDR 335,500, where the average cost <u>is-was</u>\_not much different from the average cost of modern wound dressings in this study, which is IDR 347,131,-..., while In addition, in the study conducted at Banyuasin Hospital, the unit cost of <u>complicating the service for</u> <u>hospitalized patients with</u>\_Diabetes Mellitus <u>complications patient service with</u> <u>hospitalizetion</u>-in 2015 was IDR 4,147,032.53, <u>and-Meanwhile</u>, based on\_<u>a</u> research conducted at Prof. Dr. R. Kandou Manado, <u>it was</u> stated that the average treatment for type 2 diabetes mellitus with <u>a</u> complications <u>in the form</u> of diabetic foot ulcers in the period September - November 2019 was IDR 29,139,247 [17-19]. The differences in cost is-are influenced by; the grade or severity of the wound that is owned by the patient, so it 

#### **Cost-Utility Analysis**

Based on <u>the</u> statistical results, there was a significant difference in <u>the</u> mean cost between modern wound dressings and conventional wound dressings with a P value = 0.000, and there was a significant difference in <u>the</u> mean utility between modern dressings and conventional wound dressings with a P value = 0.000. So-<u>Thus</u> it can be said that the two alternatives provide different quality of life results, where modern wound dressings provide a higher quality of life than conventional wound dressings.

Table 3. Cost-Utility Analy	sis <u>between</u>	Modern	<u>₩5-173</u>	Conventional	Wound
	Dres	ina			

Dressing					
Calculations	Modern Wound	Conventional Wound	P-value		
	Dressing	Dressing			
	(n=55)	(n=20)			
Mean Cost Average	IDR 347,131±129,309	IDR 47,140±39,183	0.000*		
<u>Mean</u> Utility Average	100.4±13.27	87.25±7.45	0.000*		
Cost Utility Ratio (CUR)	IDR 3,457	IDR 540			
Incremental Cost Utility Ratio (ICUR)	ID	R 22,813			

After obtaining the results of the utility and 2007 ben 2012 and ICUR and ICUR **URROUGREADER SELATEMENB** as do not the results of the CUR, it was found that modern The information appearing herein has been read & evaluated in grammar & youward donswings uture in grand and the grand and the second discussion of the second discussion dis

conventional wound dressings to modern wound dressings, it costs more than IDR 22,813

to increase 1 unit of quality of life, but patients <u>get\_obtained</u> an additional 13.15 quality of life. To determine whether the addition is commensurate or not, further analysis is required by comparing the GDP per capita value, or the threshold value, or with the willingness to pay value.

#### Conclusion

The conclusion is that modern wound dressings provide a higher quality of life at a greater-higher cost. To change from conventional wound dressings to modern wound dressings, it costs more than IDR -22,813 to increase 1 unit of quality of life, but patients get an additional 13.15 quality of life.

The next recommendation can be carried out by calculating the willingness to pay or the threshold to find out whether the additional cost with the addition of quality of life is worth it.

November 19, 2020 PROOFREADER STATEMENT The information appearing herein has been read & evaluated in grammar & prantuation without charajong the meaning & information from the original document by Center for International Inspange & Cultural Studies of Islamic University of Infonessis (CLACS UII JL DEMANGAN BABU NO 24 YOGYAKATA, INDONESIA. Phone Fux: 0274 540 255 user Formetted: Indonesian

User It is recommended for future studies to coloulate...

# 4. Bukti konfirmasi review dan hasil review manuskrip

(4 Juli 2021)



Baiq Leny Nopitasari <br/>
<br/>
baiqleny.nopitasari@gmail.com>

# Fwd: [PIT Virtual IAI 2020] Revisi Manuskrip dari Pharmacy Education Journal (PEJ)

1 message

Cyntiya Rahmawati <cyntiya.apt@gmail.com> To: Baiq Leny Nopitasari <baiqleny.nopitasari@gmail.com> Tue, Apr 18, 2023 at 9:31 AM

----- Forwarded message ------Dari: **Cyntiya Rahmawati** <cyntiya.apt@gmail.com>Date: Sen, 12 Jul 2021 11.45 Subject: Re: [PIT Virtual IAI 2020] Revisi Manuskrip dari Pharmacy Education Journal (PEJ)To: rhendra <rhendra@iai.id>

Assalammualaikum Wr. Wb. Selamat Pagi, Kepada Yth: Bapak Dr. Rudy, Apt. Berikut saya lampirkan artikel yang sudah saya perbaiki pak, Mohon arahannya, Terimakasih banyak pak bantuannya

Sincerely.

Cyntiya Rahmawati, S.Farm., MKM., Apt.

Phone / WA : +62 81 838 6563 Line ID: cyntiya Email : cyntiya.apt@gmail.com

Pada tanggal Sen, 12 Jul 2021 pukul 08.35 rhendra <rhendra@iai.id> menulis: Salam.

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Selamat Pagi Bapak Dr. Rudy, Apt.Mohon maaf sebelumnya pak, Saat menuliskan referensi ini saya menggunakan insert citation pada MS Word dan sudah menggunakan style APA.Kemudian saat revisi ini, saya cek ulang kembali secara manual dg style APA juga. Kira-kira kekeliruannya ada dimana ya pak?Mohon

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Pada tanggal Min, 11 Jul 2021 14.25, rhendra <rhendra@iai.id> menulis:

Kepada Yth ibu Cyntiya
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Original message From: Cyntiya Rahmawati <cyntiya.apt@gmail.com></cyntiya.apt@gmail.com>
Date: 11/07/2021 08:56 (GMT+07:00) To: Rudi Hendra <rhendra@iai.id></rhendra@iai.id>
Subject: Re: [PIT Virtual IAI 2020] Revisi Manuskrip dari Pharmacy Education Journal (PEJ) Kepada Yth: Bapak Dr. Rudy, Apt.Selamat
Pagi, Pak. Terimakasih atas informasinya, berikut saya kirimkan hasil revisinya.Salam,
Cyntiya Rahmawati, S.Farm.,MKM.,Apt.
Phone / WA : +62 81 838 6563 Line ID: cyntiya Email : cyntiya.apt@gmail.com
Pada tanggal Min, 4 Jul 2021 pukul 16.21 Rudi Hendra < <u>rhendra@iai.id</u> > menulis:Kepada Yth Ibu Cyntiya Rahmawati
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#### A Pharmacoeconomic Study: Cost-Utility Analysis of Modern Wound Dressings vs.

#### **Conventional Wound Dressings in Patients with Diabetic Foot Ulcer**

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#### Abstract

**Introduction:**Duration of treatment and outcome of therapy of diabetic foot ulcers are some of the factors that affect the quality of life and will require higher medical costs.

**Objectives:**This study aimed to choose an alternative wound dressing that provides the best utility at the most cost-efficient.

Methods: The research method used was pharmacoeconomics with a patient's perspective.

**Results:** The results showed thatthat, per visit, the mean cost of modern wound dressings per visit was IDR 347,131, while that of conventional wound dressings was IDR 47,140. The quality of life withmodern vs.conventional wound dressing was significantly different (P-value<0.05). The ICUR value was IDR22,813/QOL.

**Conclusions:** This study showed that modern wound dressings provide a higher quality of life at a higher cost. Indeed, it cost more than 22,813 IDR to change from conventional to modern wound dressings and increase 1 unit of quality of life, but patients obtained an additional 13.15 quality of life.

**Keywords:** pharmacoeconomics, cost-utility analysis, diabetic foot ulcer, wound dressing, DQOL questionnaire

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#### Introduction

According to the World Health Organization (WHO), diabetes mellitus (DM) combined with reduced blood flow and neuropathy (nerve damage) in the feet increases the chance of foot ulcer infections and the eventual need for limb amputation (WHO, 2020). In Indonesia, around 5.3 million people suffer from Diabetic Foot Ulcer (DFU), which is the most common cause of hospital admissions (80%) for DM (Hastuti, R.T, 2008). DFU is often overlooked, making its existing core concept imprecise; consequently, many patients develop osteomyelitis, even amputation (Misnadiarly, 2006). In 2010-2011, the incidence of amputation in Indonesia due to DFU increased sharply from 35% to 54.8% (Misnadiarly, 2006).

Diabetic ulcers are the most feared chronic complication for diabetes mellitus patients in terms of both the duration and cost of treatment. The latter costs three folds the treatment of diabetes mellitus without ulcers (Hastuti, R.T., 2008). In Indonesia, the cost of diabetic ulcer managementis high 1.3 million to 1.6 million IDR per month and 43.5 million IDR per year per patient (Hastuti, R.T., 2008).

Patients need more wound care from the onset of the wound, with 30 days required to prevent breakdowns, infections, and amputations because immediate intervention can save both the costs and the patient's leg (McGuire, 2014). According to the WHO, cost-saving and feasible interventions in developing countries include moderate blood glucose control, blood pressure control, and foot care (WHO, 2020).

The use of modern wound dressings, foam dressings, for example, has major advantages, including the ability to retain exudates, high absorption, effectiveness for wounds with excess fluid, reducing pain, ease to remove, and protecting the peri-wound area from additional trauma (Jones, et al, 2006; and Hilton, et al, 2004). Furthermore, conventional wound dressings (wet-dry gauze with normal saline) cannot maintain a moist environment, required to provide optimal

conditions for wound healing. Gauze can interfere with wound healing because it dries out and causes tissue damage when it is removed (Jones, V., Grey, J., & Harding, K., 2006). Additionally, conventional treatments take longer to heal (Allenet, et al., 2000). Several studies found that the healing efficacy of modern wound dressings is 100%, while that of conventional wound dressings is only 50% (Nurhaida, 2017). Other results showed that modern wound dressings, such as hydrogel, are three times more effective than 0.9% NaCl and that moist wound healing dressings are more effective than NaCl 0.9% + real honey (Purnomo, S., et al, 2014; and Riani, et al., 2017).

Unfortunately, modern wound dressings are more expensive than conventional wound dressings. Modern wound care provides better comfort and reduces the smell of the wound, but financially, conventional wound dressings are more cost-effective because they use health insurance from the government (Minarningtyas, A., & Tami, A., 2018).

Therefore, it is necessary to conduct a pharmacoeconomic and cost-utility analysis on the use of modern wound dressings compared to conventional wound dressings using the quality of life of DFU patients measured by the DQOL (Diabetic Quality of Life) questionnaire and the average total cost of each wound dressing. This study aimed to perform a cost-utility analysis between modern versus conventional wound dressings in diabetic foot ulcer patients to determine an alternative cost-effective wound dressing that would provide the best utility or quality of life for diabetic foot ulcer patients.

#### Methods

This pharmacoeconomic research is analytical and observational and uses a crosssectional approach. It has been reviewed and approved by the Health Research Ethics Commission University of Mataram No.:109/UN18.F7/ETIK/2020. This study compared the utility and cost of two treatments for diabetic foot ulcers, i.e., modern wound dressings and conventional wound dressings. The mean utility data were collected using the DQOL questionnaire, while the cost data were obtained from the average total cost from the patient's perspective. The cost components calculated consisted of direct medical and non-medical costs and indirect costs. Then, a cost-utility analysis was performed by calculating the value of the incremental cost-utility ratio (ICUR). The validity of the DQOL questionnaire had been tested with validity value r = 0.428-0.851 and Cronbach alpha 0.963 (Yusra, A., 2011). DQOL consists of 30 questions covering satisfaction, the impact of illness, concerns about physical function in addition to psychological and social problems. All answers are rated ona Likert scale, with DQOL scores categorized into low (less than 60), moderate (60-90), and high (more than 90) quality of life (Yusra, A., 2011).

The study population consisted of diabetic foot ulcer patients who needed wound dressings recruited from the AWCC Lombok wound care clinic and several public health centers (*Puskesmas*) in West Lombok Regency and Mataram City. The total sampling technique was used because the number of diabetic foot ulcer patients who needed wound dressings was small. The final sample included 16 patients; 11 used modern wound dressings, and 5 used conventional wound dressings. The patients' quality of life was monitored from their first visit to the clinic or public health center until they recovered or no longer needed wound dressing. Hence, the mean utility and costs were calculated based on the total number of visits, i.e., 75 visits distributed as follows: 55 visits by patients with modern wound dressings and 20 visits by patients with

conventional wound dressings. Informed consent was obtained from all the patients. The utility and cost comparisons were performed statistically using SPSS version 20 software.

#### Results

#### **Overview of Utility of Diabetic Foot Ulcer Patients**

In this study, demographic data collected were based on factors that affect the quality of life of diabetes mellitus patients, namely gender, age, education level, ethnicity, and marital status (Rubin, R., & Peyrot, M., 1999) in addition to grade of diabetic foot ulcers and smoking status.

Diabetic foot ulcer patients who used modern wound dressings had various wound grades, ranging from 4, 3, 2, and 1, while those who used conventional wound dressings had grades 3 and 1.

Patients with modern wound dressings were only found at the AWCC Lombok wound care clinic, while patients with conventional wound dressings were only found at public health centers in West Lombok Regency and Mataram City. In otherwords, there were two different research locations. Currently, more patients prefer wound care clinics than public health centers, where they will receive a modern wound dressing even though they have to spend more money. Those who choose public health centers get a conventional wound dressing for free.

Table I shows that almost all the patients with diabetic foot ulcers who used modern wound dressings had a high quality of life, except for those who were unmarried (they had a moderate QOL). Patients using conventional wound dressing who had a high quality of life consisted of those who had a high school education level or above and those who were employed.

#### Cost of Modern Wound Dressing and Conventional Dressing

The cost calculation was carried out based on the patient's perspective. The calculated cost components were direct medical costs (wound dressing costs and wound care costs), direct non-medical costs (homecare costs for modern wound dressing patients and transportation costs

for conventional wound dressing patients), and indirect costs (loss of productivity cost). The loss of productivity cost was calculated based on the human capital approach, i.e., the number of days lost due to illness or treatment according to daily income (Setiawan, D., Endarti, D., & Suwantika, A., 2017).

Table II shows that the direct medical cost of conventional wound dressings was 0 IDR since patients underwent wound care at a public health center free of charge. The direct medical costs were borne by the Social Security Administrator for Health (BPJS Kesehatan). Patients only incurred direct non-medical costs in the form of transportation costs from home to the public health center. Even if the care is provided free of charge, the indirect costs (loss of productivity cost) create a financial burden. Meanwhile, the direct non-medical cost of modern wound dressings was high because patients received wound care at home. The average cost was IDR 347,131, or 7 times higher than the total cost of conventional wound dressings.

#### Discussion

This study results show that modern wound dressings provided a high mean utility compared to conventional wound dressings. Basic wound treatments rely heavily on antiseptics misuse and drying of the wound, resulting in lengthy, expensive, and painful care (Vuagnat, H., & Comte, E., 2016). Complications experienced, such as diabetic ulcers, can result in a lower quality of life in diabetes mellitus patients, where these complications can result in physical, psychological, and even social limitations (Yusra, A., 2011). Patients with diabetic ulcers had a low quality of life as physical health is closely related to patient feelings about the pain and anxiety experienced, dependence on medical care, energy and fatigue, mobility, sleep and rest, daily activities, and work capacity (Utami, D., Karim, D., & Agrina., 2014). The quality of life of diabetes mellitus patients was significantly influenced (P-value<0.05) by gender, age, education, disease duration, including complications in the form of diabetic ulcers (Eristina, 2017).

The statistical results (Table II) showed significant differences in the direct medical costs, direct non-medical costs, indirect costs, and the average cost between modern and conventional wound dressings (P-value < 0.05). A study conducted at Karanganyar General Hospital reported that complications significantly affected direct medical costs (P-value< 0.05) and that the average cost of complications for diabetes ulcers was 765,662.00  $\pm$  42,085.58 IDR (Eristina, 2017). Another research conducted at Sanglah General Hospital Denpasar found that the average cost of modern wound dressings was 335,500 IDR, not much different from the average cost of modern wound dressings in ourstudy (347,131 IDR). Furthermore, in a study conducted in 2015 at Banyuasin Hospital, the unit cost of the service for hospitalized patients with diabetes mellitus complications was 4,147,032.53 IDR. Previous research conducted between September and November 2019 concluded that the average treatment for type 2 diabetes mellitus with thecomplication of diabetic foot ulcers was 29,139,247 IDR (Tiara, S., 2012; Rahman, F., 2016;

and Rondonuwu, et al., 2020). The differences in costs are influenced by the grade or severity of the wound (which requires more extensive therapy), cost of action, including accommodation costs in the hospital.

#### **Cost-Utility Analysis**

Table III shows a significant difference in the mean cost and the mean utility between modern wound dressings and conventional wound dressings (P-value=0.000). Thus, the two methods yield different quality of life results, where modern wound dressings provide a higher quality of life than conventional wound dressings.

The CUR and ICUR values were calculated after obtaining the results of the utility and cost calculations. The results of the CUR (Table III) show that modern wound dressings were in quadrant 1, while conventional wound dressings were in quadrant 3, so a cost-utility analysis was carried out by calculating the ICUR value. Modern wound dressings provided a higher quality of life at a higher cost than conventional wound dressings. The results of ICUR showed that it costs more than 22,813 IDR to change from conventional to modern wound dressings and increase 1 unit of quality of life, but patients obtained an additional 13.15 quality of life. Further studies comparing the GDP per capita, or the threshold value, or the willingness to pay are necessary to determine whether the addition is commensurate or not.

A study conducted in Germany reported that patients who used the new wound dressing (foam dressing) had a reduced mean frequency of dressing change by 1.3 times per week (from 4.6 to 3.3). The cost of dressings per change increased slightly, but the average cost of dressings per week was reduced by approximately 23% (Kronert, G. T., Roth, H., & Searle, R. J., 2016). Another study conducted at Jss Hospital, India, found that topical sucralfate was more cost-effective than conventional dressings, as it required a lower number of dressings and reduced hospital stay significantly (Preethi, S. P., & Dhanasekaran, V., 2019). Based on there search

conducted in the USA, the incremental cost-effectiveness ratio of Dermagraft(R) (human dermal replacement) equals 38,784 FF, indicating the extra investment that the decision-maker has to accept for an additional ulcer healed with Dermagraft(R) compared with conventional treatment (Allenet, B., et al. 2000). However, it is different from the results of research in the UK reporting no difference in effectiveness and quality of life of N-A (a non-adherent, knitted, viscose filament gauze), Inadine (an iodine-impregnated dressing), both traditional dressings, and Aquacel, a newer product. The only statistically significant difference found in the health economic analysis was the cost associated with the provision of dressings (mean cost per patient: N-A 14.85 pounds, Inadine 17.48 pounds, Aquacel 43.60 pounds) (Jeffcoate, W., et al 2009).

#### Conclusion

This study showed that modern wound dressings provide a higher quality of life at a higher cost. Indeed, it cost more than 22,813 IDR to change from conventional to modern wound dressings and increase 1 unit of quality of life, but patients obtained an additional 13.15 quality of life. Further studies comparing the GDP per capita, or the threshold value, or the willingness to pay are necessary to determine whether the addition is commensurate or not.

#### Limitations of the Study

The number of patients included in the evaluation was small, so the analysis in this study used the number of patients visits. Nevertheless, it would be beneficial to undertake further work in other wound care clinics and public health centers to increase confidence in the generalizability of the results.

#### Acknowledgements

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#### **Conflict of Interest**

The authors declare no conflict of interest.

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	Mo	dern Wound	Dressing	Conve	entional Wound	l Dressing
Demography of	Total	Percentage	Mean	Total	Percentage	Mean
patients	(n=11)		Utility	(n=5)		Utility
			(n=55)			(n=20)
Gender						
Male	5	45.45%	104.38±9.49	3	60%	89.25±6.94
Female	6	54.55%	97.32±15.01	2	40%	84.25±7.59
Age						
< 46 years old	2	18.18%	106.00±5.46	2	40%	85.63±6.44
$\geq$ 46 years old	9	81.82%	99.16±14.19	3	60%	88.33±8.14
Education						
<senior high="" school<="" td=""><td>5</td><td>45.45%</td><td>94.42±14.67</td><td>3</td><td>60%</td><td>84.00±6.15</td></senior>	5	45.45%	94.42±14.67	3	60%	84.00±6.15
≥ Senior High School	6	54.55%	105.76±9.19	2	40%	92.13±6.77
Occupation						
Employed	10	90.91%	99.24±13.33	3	60%	90.00±7.81
Not Employed	1	9.09%	112.00±4.00	2	40%	83.75±5.60
Marital Status						
Married	10	90.91%	103.94±9.97	4	80%	87.38±7.21
Unmarried	1	9.09%	79.63±11.29	1	20%	86.75±4.57
Smoking Status						
Smoking	3	27.27%	102.33±9.96	2	40%	85.13±4.09
Not Smoking	8	72.73%	99.68±14.36	3	60%	88.67±8.93

# Table I. Overview of Utility of Diabetic Foot Ulcer Patients

	Modern Wound	Conventional Wound	
Cont Community	Dressing	Dressing	D
Cost Components	(n=55)	(n=20)	P-value
	Total IDR	Total IDR	
Direct Medical Cost	IDR 12,034,000	IDR 0	0.000*
- Cost of wound	(IDR 5,094,000)	(IDR 0)	
dressing			
- Cost of wound care	(IDR 6,940,000)	(IDR 0)	
Direct non-medical	IDR 1,650,000	IDR 88,000	0.000*
cost			0.000
Indirect Cost	IDR 5,408,223	IDR 854,795	0.009*
Total cost	IDR 19,092,223	IDR 942,795	
Mean Cost	IDR 347,131±129,309	IDR 47,140±39,183	0.000*

## Table II. Cost of Modern Wound Dressing and Conventional Dressing per Visit

Calculations	Modern Wound	<b>Conventional Wound Dressing</b>	<b>P-value</b>
	Dressing	(n=20)	
	(n=55)		
Mean Cost	IDR 347,131±129,309	IDR 47,140±39,183	0.000*
Mean Utility	100.4±13.27	87.25±7.45	0.000*
Cost Utility Ratio	IDR 3,457	IDR 540	
(CUR)			
Incremental Cost			
Utility Ratio	Ι	DR 22,813	
(ICUR)			

# Table III. Cost-Utility Analysis between Modern vs Conventional Wound Dressing

# 3. Bukti pemberitahuan submit manuksrip (19 Juli 2021)



Baiq Leny Nopitasari <baiqleny.nopitasari@gmail.com>

### Fwd: [PE] Submission Acknowledgement - Pharmacy Education

1 message

**Cyntiya Rahmawati** <cyntiya.apt@gmail.com> To: Baiq Leny Nopitasari <baiqleny.nopitasari@gmail.com> Tue, Apr 18, 2023 at 9:30 AM

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Hello Authors,

Celeste Watson has submitted the manuscript, "IAI PROCEEDING: A pharmacoeconomic study: cost-utility analysis of modern wound dressings vs conventional wound dressings in patients with diabetic foot ulcer " to Pharmacy Education.

If you have any questions, please do not hesitate to contact me. Thank you for considering this journal as a venue foryour work.

Kind regards

Pharmacy Education

4. Bukti penerimaan publikasi (25 Juli 2021)

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1 message

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