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The Proceeding of 7th International Nursing Conference: *Global Nursing Challenges in The Free Trade Era*

Fakultas Keperawatan Universitas Airlangga



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CONTENTS

Greeting from Steering Committe	iv
Opening remarks from Dean of Faculty of Nursing, Universitas Airlangga	v
Opening remarks from Rector of Faculty of Nursing, Universitas Airlangga	vi
Committee	ix
Scientific Paper Reviewer	xii
Conference Schedule	. xiii

Keynote Speaker : Junaidi Khotib, S.Si, M.Kes., PhD

Plenary Sessions	1
Speaker 1: SEKI Ikuko MPH, R.N, R.M.W, P.H.N	1
Speaker 2: Dr. Muhammad Hadi, SKM., M.Kep	2
Speaker 3: Harif Fadilah, S.Kp, SH, MH.Kes	
Speaker 4: Dr. Nur Mukarromah.,S.KM.,M.Kes	7
Speaker 5: Kristen Graham, RN,RM,MNg,MPH&TM,MPEd&Tr,GDipMid,GDipHSc	13
Speaker 6: Dr. M. Hasinuddin, S.Kep., Ns., M.Kep	14
Speaker 7: Dr. Tri Johan Agus Y., S.Kp., M.Kep	20
Speaker 8: Dr. Hanik Endang N, S.Kep., Ns., M.Kep	27
Speaker 9: Dr. Makhfudli, S.Kep., Ns., M.Ked.Trop.	32
Speaker 10: Madiha Mukhtar, RN, MScN, BScN, RM	37
Speaker 11: Ima Nadatien, SKM.,M.Kes.	38
Oral Presentation	42
Poster Presentation	507

ନ୍

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LIST OF ORAL PRESENTATION

Theme : Community Health & Primary Care Nursing & Family Nursing	page
Family Support Among Students With Maladaptive Behaviour Prima Khairunisa, Elis Hartati	49
Awareness And Barriers To Tb Dots Program In Selected Community In Indonesia: Basis For Information Dissemination Campaign Material Wijar Prasetyo1, Liwayway T. Valesteros2	50
Prenatal Care Satisfaction In Temporary Housing Following Natural Disaster Yuanita Wulandari	51
Nurse role on building Community resilience in merapi: preparedness phase Melyza Perdana, Nurul Hidayah, Ratna Puji Priyanti	56
Health Volunteer's Role Enhancement As A Change Agent Of Leprosy Related Stigma At Community By Using Training Eka Mishbahatul Mar'ah Has, Elida Ulfiana, Retno Indarwati	64
Perception Affects The Hsp 70 Family Members Who Care For Sufferers Of Tuberculosis Chilyatiz Zahroh	
Public Participation In Health Development Program In Wonokromo District Wiwik Afridah	68
Analysis of the change of intent keep skin hygiene in dormitories at Al-Mukmin Daughter Asror Bangkalan Madura Eppy Setiyowati	72
The influence of mozart classical music therapy onThe learning ability among students in grade xii Social class at sman 1 pagak malang AmilaWidati, Anggoro Bayu Krisnowo	78
Effect KIB (Kelas Ibu Balita) Aged 0-59 Months Of Practical Use Of Buku Kia In Megaluh And Jogoloyo Primary Health Care In Jombang City Septi Fitrah Ningtyas	83
Analysis Factors Affecting Diphtheria Epidemic in Bangkalan Madura Meiana Harfika	84
Tuberculosis Patient Habitual Of Coughing And Sputum Dispose Suprajitno	85
The Effect Of Peer Group Discussion To Improve Adolescent's Knowledge And Attitude About Free Sex Prevention On 8th Grade Student's At Smp Panca Jaya Surabaya Suhartina, Mira Triharini, Eka Misbahatul Mar'ah Has	94
Macro cosmos effect on human health behavior and cultural perspective by java (behavior study of java society in taking care of And improving health in blitar east java) Imam Sunarno	95
Theme : Education and Inter professional Collaboration	page
Fostering Soft Skills in Nursing Through Caring Theory in Nursing Ethics Course Rr. Sri Endang Pujiastuti	95
An Analysis of Learning English for Spesific Purposes (ESP) for Nursing Using Video Media to Increase The Students' Speaking Ability I'in Noviana	96

I'in NovianaThe Relation Between the Teacher's Roles in Teaching English for Specific Purposes to97the Three Different Degrees of Nursing Program Students' Motivation of Applying

9

English in Nursing Terms Nurul Arifah98The Conventional Model and Problem Based Learning Model to Motivate Learning in Midwivery Student at Pemkab Jombang Institute of Health Science Erika Agung Mulyaningsih, Pepin Nahariani, Effy Kurniati Internal Analysis of Self Regulated Learning: Developmental Study Pepin Nahariani, Erika Agung Mulyaningsih102English Role Play Activity Research on Blood Pressure Measurement in Nursing Class Tiyas Saputri Relationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on Surabaya Nur Masruroh112Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric Tube (NGT)119		
Midwivery Student at Pemkab Jombang Institute of Health Science Erika Agung Mulyaningsih, Pepin Nahariani, Effy Kurniati Internal Analysis of Self Regulated Learning: Developmental Study Pepin Nahariani, Erika Agung Mulyaningsih102English Role Play Activity Research on Blood Pressure Measurement in Nursing Class Tiyas Saputri Relationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on Surabaya Nur Masruroh112Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric Tube (NGT)119	0 0	
Pepin Nahariani, Erika Agung Mulyaningsih English Role Play Activity Research on Blood Pressure Measurement in Nursing Class 106 Tiyas Saputri 112 Relationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on 112 Surabaya 112 Nur Masruroh 119 Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric 119	Midwivery Student at Pemkab Jombang Institute of Health Science	98
English Role Play Activity Research on Blood Pressure Measurement in Nursing Class106Tiyas SaputriRelationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on112SurabayaNur MasrurohEffectiveness of Achievement in Learning Media Installation of Competence Nasogastric119Tube (NGT)112		102
Tiyas SaputriRelationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on112SurabayaNur MasrurohEffectiveness of Achievement in Learning Media Installation of Competence Nasogastric119Tube (NGT)119	Pepin Nahariani, Erika Agung Mulyaningsih	
Relationship of Level of Anxiety with Learning Clinic Achievement Midwifery Student on112SurabayaNur MasrurohEffectiveness of Achievement in Learning Media Installation of Competence Nasogastric119Tube (NGT)119	English Role Play Activity Research on Blood Pressure Measurement in Nursing Class	106
Surabaya Nur Masruroh Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric 119 Tube (NGT)	Tiyas Saputri	
Nur Masruroh Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric 119 Tube (NGT)		112
Effectiveness of Achievement in Learning Media Installation of Competence Nasogastric 119 Tube (NGT)	·	
Tube (NGT)	Nur Masruroh	
		119
	Nurul Hidaya, Agus Setyo Utomo	
Distance Learning Using Social Media in Nursing Education Process 124		124
Ema Yuniarsih , Maria Frani Ayu Andari Dias	Ema Yuniarsih , Maria Frani Ayu Andari Dias	

Theme : Geriatric Nursing	Page
The Comparative Of Knowledge And Elderly People's Visiting At Posyandu (Centre For	128
Health At The Neighborhood) In Dusun Sidowaras And Dusun Belut	
Wiwiek Widiatie, Andi Yudianto	120
The Effect Of Range Of Motion Exercise At Lower Limb To Elderly Postural Balance In	132
Posyandu Alamanda 99 Jember Lor Village Jember District	
Muhammad Athok Fitriyansyah, Tantut Susanto., Hanny Rasni	127
The Relationship Of Cognitive Status And Quality Of Life Of Elderly In Nursing Home	137
Ises Reni, Lenni Sastra, Ninit Yulistini	120
Supportive Therapy In Improving The Independence Of The Elderly Based On Orem's	138
Nursing Theory	
Khamida , Umdatus , Juliana Enggar Brildyh	
The effectiveness of reminiscence therapy for reducing depressive symptoms in eldery	145
Rodiyah	
Moslem Spiritual Behaviour And Readiness To Face Death In Elderly	149
Pipit Festy, Musrifatul Uliyah, Arif Tri Ardianto	
The effectiveness of the mc. Kenzie extension method On the low back pain in elderly	154
Amila , Henny Syapitri, Yefita Realisman Zebua	
Effect of garlic toward cholesterol level of elderly At sumengko village, distric of Gresik	157
Ahmad Kanzul Khoir, Yulis Setiya Dewi, Erna Dwi Wahyuni	

Theme : Management and Health Policies	Page
Complaint management on health care improvement efforts as a customer satisfaction Pratiwi.Y, Fresty.A, Martini.W	162
External and internal factors influencing job stress in nursing at emergency department Nur Ainiyah	167
Nurses Perceptions Of Leadership Behavior Manager In The Application Of The Six Quality Targets Patient Safety In Private Hospital Ratna Agustin	169

Theme : Medical Surgical and Critical Care Nursing	Page
Study comparation to find correlation between clinical manifestations and clinical	173
	43
Global Nursing Challenges in The Free Trade Era	-13

ANALYSIS FACTORS AFFECTING DIPHTHERIA EPIDEMIC IN BANGKALAN MADURA

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ABSTRACT

Introduction: Diphtheria is a disease caused by *Corynebacterium diphtheriae*. in 2012 this disease became epidemic in several regions of East Java, including Bangkalan, Situbondo, Jombang and Surabaya. **Method:** This study was an applied research using secondary data drawn from Puskesmas Bangkalan in 2013. **Results:** The results showed that the human resources versus the target number PIN (p = 0.048) and immunization coverage have a relationship with the incidence of diphtheria in Bangkalan (p = 0.041). **Discussion:** High immunization coverage is expected to reduce the incidence of the disease are immunized. The full immunization coverage have a significant influence on the case of diphtheria. The results of this study are expected in improving health promotion in order to reduce cases of diphtheria in East Java

Key word : diphtheria, epidemic

INTRODUCTION

Diphtheria is a health problem both worldwide and in Indonesia itself. Diphtheria is an acute disease caused by the bacteria Corynebacterium diphtheria. The disease was first described by Hippocrates at -5 th century BC, and then only in the 6th century AD Actius tells of diphtheria epidemic. In 1883, the germs of diphtheria Klebs researching on pseudomembranous and bred by Loeffler in 1884. At the end of the 19th century, the experts found diphtheria antitoxin, while the new toxoid was developed in the 1920s. Diphtheria is an endemic disease in many countries in the world. In the early 1980s an increased incidence of diphtheria cases in State ex-soviet union because chaos immunization program, and in the 1990s is still going great epidemics in Russia and Ukraine. In the 2000s epidemic of diphtheria still occur and spread to neighboring countries.

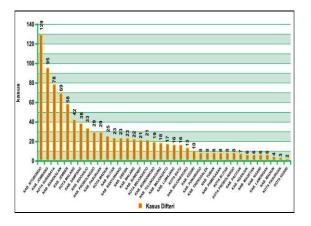
In Europe, diphtheria immunization program began in I940. and since the incidence of diphtheria immunization program is quite low. Since then, only two epidemics have occurred, the first in 1982 - 1985 and the second that began in 1990. The epidemic is primarily affected republics in the former Soviet Union, in particular Russia and Ukraine (ProgramPerluasan Immunization in 1993). More than 95% of cases are now reported in the European Region of Russia and Ukraine.

In Indonesia, in 2011 the world health Indonesia struck by the spread of diphtheria in the province of East Java (East Java). A total of 11 333 children died of diphtheria cases that arise during the year 2011. Therefore, the government of East Java Province set KLB (Unusual) diphtheria in East Java in October 2011. Determination of the status of outbreaks is done considering the case has spread in almost all regencies / cities East Java.

Diphtheria is a case of "re-emerging disesase" in East Java because of diphtheria cases actually declined in 1985, but increased again in 2005 during an Extraordinary Events (KLB) in Bangkalan. Since then, the spread of diphtheria increasingly widespread and reached its peak in 2012 of 955 cases with 37 deaths and are scattered in 38 districts / cities. Diphtheria cases in East Java is the largest contributor to the case in Indonesia (which amounted to 74%) even in the world (East Java Health Office, 2013)

Diphtheria cases in East Java has plagued 34 cities / districts. In 2012 diphtheria cases was highest in Situbondo (129 cases), Jombang (95 cases), and Surabaya (78 cases). While the lowest cases Kediri (2 cases), Pasuruan (3 cases) and Madison County (4 cases). As figure 1.1

Figure 1.1 The case of diphtheria in East Java



Transmission of diphtheria has been increasing since 2005. In 2010, in the East Java region is high morbidity as many as 304 cases of diphtheria in 32 areas and resulted in 21 children died. Whereas in 2009, there were 140 cases in 24 regions in East Java with the victim eight people died. East Java Province for two years from 2012 to June 2013 declared Extraordinary Events Diphtheria with the number of cases as many as 1,264, the case was with the details of the year 2012 as many as 954 cases with the death of 37 people, the year 2013 until the month of June as many as 310 cases with the deaths of 15 people (East Java Health Office, 2013).

Based on data from the Health Office Bangkalan, terdpat 76 people stricken with diphtheria in 2013. This deadly disease occurred in 14 districts and only four districts that are not reported any incidence of diphtheria. In 2012, the number of people stricken with diphtheria Bangkalan that as many as 69 people, and of these six people died. Efforts are being made to suppress a case of diphtheria is to do the basic immunization in infants with vaccines Diphtheria-Pertussis-Tetanus and Hepatitis B (DPT-HB). The vaccine is given three (3) times that at the age of 2 months, 3 months and 4 months. Moreover, due to the surge of cases in school age children the additional immunization Tetanus Diphtheria (TD) is also given to primary school children and equal grades 4-6 and high school (SMP) (East Java Health Office,2013)

RESEARCH METHOD

This type of research used in this study is an applied research is research that is used to apply and develop science in which the theory is applied in the field of health statistics. The location of this research is in the province of Bangkalan Madura and research time from May to June 2014. The data used in this study is data from the Health Office Bangkalan 2012. This data is the data of Extraordinary Events diphtheria. The variables in this study consisted of the dependent variable and independent variables. The dependent variable is the Diphtheria outbreak. The independent variable is the density of occupancy, direct contact, Human Resources (HR), distance between regions and Immunization Coverage.

RESULT

Number of Cases

Distribution of the District according to the number of cases in the District can be viewed through the following table

Table 1 Average Number of Cases Difetri bythe District in 2013

Subdistrict	Case Number	Percentage	
Subuistrict	Case Number	(%)	
Tanjung Bumi	24	16.55	
Sepuluh	3	2.07	
Klampis	21	14.48	
Kokop	1	0.69	
Arosbaya	8	5.52	
Geger	6	4.14	
Bangkalan	17	11.72	
Burneh	8	5.52	
Konang	0	0	
		9	

Tanah Merah	9	6.21
Galis	8	5.52
Socah	6	4.14
Tragah	2	1.38
Blega	1	0.69
Kamal	2	1.38
Labang	6	4.14
Kwanyar	11	7.59
Modung	12	8.28
Total	145	100

Source: Secondary Data DHO Bangkalan Year 2013

Table 1 shows that in Bangkalan, the average number of cases of diphtheria most was the district of Tanjung Bumi is 24 cases (16.55%) and the lowest number of cases of diphtheria is the District Subdistrict Kokop and Blega namely 1 case (0.69%).

Residential Density

Distribution of districts according to population density in Bangkalan can be viewed through the following table

Table 2 The average	density	of	occupancy	by
the District in	2013			

Subdistrict	Density Residential
Tanjung Bumi	732.65
Sepuluh	539.73
Klampis	742.40
Kokop	507.34
Arosbaya	963.91
Geger	517.90
Bangkalan	2,229.43
Burneh	857.97
Konang	564.43
Tanah Merah	859.80
Galis	627.20
Socah	1,004.93
Tragah	682.37
Blega	583.38
Kamal	1,126.52
Labang	970.38
Kwanyar	894.40
Modung	584.31

Total	14989
Source: Seconda	ry Data DHO Bangkalan Year 2013

Table 2 shows that in Bangkalan, the average occupancy density sufficient qualified District of Bangkalan is 2229.43 and less qualified occupancy density is the District Kokop ie 507.34.

Direct contact

Distribution of districts according to the number of direct contacts in Bangkalan can be viewed through the following table:

Tabel 3.	Average Number	of	Contacts	Direct
	by the District			

Subdistrict	Direct of Contact
Tanjung Bumi	7.3
Sepuluh	9.6
Klampis	15
Kokop	3.48
Arosbaya	5.75
Geger	9
Bangkalan	11.33
Burneh	9.8
Konang	4.36
Tanah Merah	12
Galis	11
Socah	11.6
Tragah	2.99
Blega	23
Kamal	6
Labang	9.25
Kwanyar	13
Modung	8.6
Total	173.06
Kwanyar Modung Total	8.6

Source: Secondary Data DHO Bangkalan Year 2013

Table 3 shows that in Bangkalan, the average number is the most direct contact the District Blega with 23 contacts and the lowest was Trega namely the District 3 contacts.

Human Resources According to People (The **Comparison of Human Resources by Total** Goals)

Distribution Comparison of the District according to Human Resources by Total Goals in Bangkalan can be viewed through the following table.

Subdistrict	HR according to target
Tanjung Bumi	568.66
Sepuluh	705.09
Klampis	853.47
Kokop	1416.17
Arosbaya	495.61
Geger	1455.32
Bangkalan	992.58
Burneh	763.96
Konang	1358.42
Tanah Merah	1080.11
Galis	1283.15
Socah	692.35
Tragah	758.07
Blega	1149.89
Kamal	813.88
Labang	990.90
Kwanyar	968.41
Modung	856.36
Total	17202.40

Table 4 The average HR by the District

Source: Secondary Data DHO Bangkalan Year 2013

Table 4 shows that in Bangkalan, areas of high average human resources (HR) is the District Geger is 1455.32 and the average area of human resources (HR) Low is the District Arosbaya ie 495.61.

Distance of Territory

Distribution Sub-district according to population density in the district can be seen through the following table:

Table 5 Average Spacing Region Based on the District

Subdistrict	Distance	of
	Territory	

Tanjung Bumi	61
Sepuluh	50
Klampis	42
Kokop	66
Arosbaya	35
Geger	43
Bangkalan	21
Burneh	18
Konang	36
Tanah Merah	0
Galis	10
Socah	29
Tragah	13
Blega	21
Kamal	39
Labang	18
Kwanyar	10
Modung	31
Total	543

Source: Secondary Data DHO Bangkalan Year 2013

Table 5 shows the farthest distance from Tanah Merah districts are districts Kokop 66 KM and cement the closest distance from Tanah Merah districts are Galis and Kwanyar 10 KM.

Immunization Coverage

Distribution Sub-district according to population density in the district can be seen through the following table:

Table 6. Average Immunization CoverageBased on the District

Subdistrict	Immunization Coverage
Tanjung Bumi	95.08
Sepuluh	96.51
Klampis	96.60
Kokop	101.44
Arosbaya	101.10
Geger	89.79
Bangkalan	96.68

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Burneh	97.50
Konang	90.88
Tanah Merah	85.63
Galis	95.33
Socah	101.87
Tragah	115.35
Blega	98.36
Kamal	110.77
Labang	103.51
Kwanyar	92.41
Modung	93.38
Total	1762.18

Source: Secondary Data DHO Bangkalan Year 2013

Table 6 shows that the highest immunization coverage at the health center were Tragah that is equal to 115.35% and then amounted to 110.8% Kamal health centers, health centers Labang 103.508%, 101.44% Kokop health centers, and health centers Arusbaya of 101.095%. While the lowest immunization coverage at the health center Tanah Merah which amounted to 85.6298%.

DISCUSSION

Density Residential

From the analysis p value $0.128 > \alpha 0.05$ this means there is no relation between the extraordinary event diphtheria with residential density in Bangkalan.

Density residential home also affect health due to potentially spread the disease agent be easily transmitted from one human to another human. The density of occupants in the house also affect the breeding of germs in the room. Residential density in the home, is one factor that can increase the incidence of diphtheria.

But in the data analysis, no association between residential density with dfteri disease events in general this is due to good occupancy density in the group of children and adults in Bangkalan is good enough. Variations to the increased cases of diphtheria, causing outbreaks of diphtheria allegedly due to other factors. In general appraisal occupant density by using the provisions of minimum standards, the occupant density that meets the health requirements derived from the quotient between the area of the floor with the number of inhabitants> 10 m² / person and occupant density does not meet health requirements when the obtained quotient between the area of the floor with the number of occupants <10 m² / person(Lopez,1989).

Direct of Contact

The results of multiple linear regression analysis obtained by value p-value of 0.625 (p <0.05), which means that there is no influence between the number of direct contacts with the outbreak of diphtheria in Bangkalan.

The main source of human infection is diphtheria. Transmission occurs through the respiratory air when direct contact with patients or carriers (carrier) germs. Someone with diphtheria can transmit the disease since the first sick day to 4 weeks or until no longer found in the lesions of existing bacteria. A carrier (carrier) can transmit disease germs to 6 months (Cahyono, 2010).

Based on the results of data analysis and the theory of the variable direct contact influential only in the group of children alone but not the adult group caused by the immune system to target children more vulnerable than the adult group, so as to the occurrence of diphtheria directly to children more easily than people adult.

Comparison between the HR and the target

The comparison between the amount of human resources to provide faksinasi with the target number also the risk of the spread or transmission of diphtheria in Bangkalan district, meaning that the less the ratio between the SDM with the target number will further reduce the risk of contracting or spreading the disease.

Based on the results obtained by linear regression analysis p-value of 0.048 (p <0.05) means that there is a significant relationship

between the number of HR with diphtheria outbreak in Bangkalan.

According to Sonny Sumarsono (2003), Human Resources or the human recources contains two meanings. First, is the work effort or service that can be provided in the production process. In other respects the human reflect the quality of the effort given by a person in a certain time to produce goods and services. The second notion, HR involves the human who is able to work to provide the services or work effort. Ability to work means being able to engage in activities that have economic activities, namely that these activities generate goods or services to meet the needs or the public.

Human Resources (HR) became the main factor of success running an organization. Then how the resources that need to be developed so that organizational goals can be achieved with good. In this case the SDM is a health worker spearheading an immunization services. sometimes the number of health and immunization disproportionate number of participants so that in one day a health worker holds a lot of goals. It would be ineffective ratio between 1 health worker does not balanced. The other problem is the problem of distance and transport lines are hard to reach so do not allow health workers to visit the place. For regions where low immunization coverage must be held sweeping immunization. For immunization workers, need to increase activity in counseling about immunization to the community, especially to do parents in meeting the needs of children about health.

The distance between Territory

In Bangkalan first discovered diphtheria is in the district of Tanah Merah then to the district Labang. From the available data, the distance between district Tanah Merah and Labang 18 KM. while judging from the number of cases is subdistrict Cape Earth 24 cases, the distance between the Tanah Merah district of Tanjung Bumi is 61 KM. and the second most cases is the District Klampis with 21 cases, the distance between Tanah Merah to the District Klampis is 42 KM.

While the closest distance from the district of Tanah Merah District of Galis and District Kwanyar with a distance of 10 KM while the two districts the number of 8 cases and 11 cases.

In this case far or near distance between the area has nothing to do because of the first discovered in the district of Tanah Merah with 9 cases, it was the highest cases are sub-district of Tanjung Bumi with the distance between the regions is 61 KM.

From the results of linear regression analysis processing child cases the distance between regions have influence with the incidence of diphtheria p value 0.299> 0.05 means that there is no effect of distance between regions with the incidence of diphtheria.

Immunization Coverage

Based on the results of a linear regression analysis on the scope of acquired immune p-value of 0.041 (p> 0.05) means no statistical effect on the incidence of diphtheria. In theory, high immunization coverage is expected to reduce the incidence of the disease are immunized. The full immunization coverage have a significant influence on the case of diphtheria.

DPT immunization schedule is very full and proper effect on the incidence of Diphtheria, with DPT complete and correct to form immunity (artificial active immunization). Completeness is not enough to protect the immune system from infection Corybacterium diphtheriae, but also must be balanced with the immunization schedule accuracy. Research has been done a significant association between the incidence of diphtheria immunization status. Status DPT and DT incomplete provide opportunities for diphtheria.

CONCLUSION

Bangkalan District is the first district of infection of diphtheria which later became

Extraordinary Events (KLB) in eastern Java. In 2012 when the Province of East Java to Bangkalan Diphtheria outbreak incident became the order of 4 with most patients after Situbondo, Jombang and Surabaya. Data taken a secondary data drawn from District Health Office Bangkalan. From the results, the results were significantly affected Diphtheria outbreak in Bangkalan Regency is a target value of Human Resources and Immunization Coverage PIN.

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