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# The Explanation Of The Level Of Knowledge And Attitude Of The 12-Year-Old Students On Syphilis Prevention At The School Of The General Secondary Education Railaco Ermera, Timor-Leste (2025)

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### **Abstract**

Introduction: It is based on data from the World Health Organization (WHO, 2023) indicating that, from 2015 to 2020, there were 2,000 confirmed cases of syphilis in men and 1,085 cases in women, a total of 45.8% of cases. Ministry of Health in Timor-Leste in the year 2023, in the National territory with a total of 10,514 of the number of cases that positive patients 171 of cases, according to the report presented annually by the Ministry of Health Timor-Leste.

**Research Objectives:** To know the knowledge and attitude of students about the prevention of syphilis at the General Secondary School of Railaco Ermera.

**Research Methodology:** We use the research methods is quantitative descriptive, probability sampling technique of the technical type simple random sampling with simple random way of random. Of the population are students of the General Secondary School and 69 samples. Technical data collection is the instrument of questionnaires that were applied in the research.

**Discussion Results:** Based on Pearson's statistical correction analysis that there is a relationship between knowledge with syphilis prevention of P value 0.001 < 0.05, there is a relationship between knowledge of understanding with syphilis prevention of P value 0.001 < 0.05, there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value  $0.001 \ 0.05$ , there is a relationship between knowledge of application with syphilis prevention of P value 0.001 < 0.05, there is a relationship between knowledge of application with syphilis prevention of P value 0.001 < 0.05, there is a relationship between the attitude and syphilis prevention of P value 0.001 < 0.05, not accepted from H0.

**Conclusion:** There is a positive and significant relationship between knowledge of knowledge, understanding, application and prevention of moderate categorially syphilis cited by (Tilman CB., 2025).

**Keywords**: Knowledge, Attitude, Prevention, Syphilis and Secondary Education.

### Introduction

cate that, annually, there are about 12 million new 20 years, 24% aged 20 to 24 years. 25 years old, cases in the adult population worldwide, most of while for those under 52 years old it is 6% with afthem in developing countries. Regarding the Brazil- fected syphilis, cited by (Tilman CB., 2025). ian reality, the number of cases increased by more than 4,000% in the period from 2015 to 2021. Ac- According to the Ministry of Health Timor-Leste cording to the WHO (2022), indicate that, in the year 2023, which indicate that people suffered the period from 2018 to 2021, there were 2,000 con- most risks of syphilis infections, however, the Minfirmed cases of syphilis in men and 1,087 cases in istry of Health that distributes test kits to Health women, with a percentage difference of 46.8%, Center and Health Post in the National Territory, to where the prevalence is a higher incidence rate of do the test at the blood donation site and to make notification of cases of syphilis for males, and this the diagnosis, because syphilis infections and more contamination rate has been contrasted with all re- prevalent populations are at risk. In Timor-Leste, gions of Brazil, of confirmed cases was the Southeast Region, fol- five Municipalities of Timor-Leste are: Municipalilowed by the North and Northeast Regions, and ty Dili, Liquica, Baucau, RAEOA/Oecussi, Suai when making comparisons with genders, males had Covalima and Bobonaro cited by (Tilman CB., higher percentages of reported cases in all regions. 2025). Global data from 2022, the number of adults infected with syphilis was 36.5 million, with 10.8 million The cases begin in 2020, the Ministry of Health new infections each year. In 2021, there were 36 will test for syphilis infections in the Health Center cases of syphilis in China per 100,000 inhabitants. and in the Health Post in the National territory, total In 2019 - 2021, the number of syphilis carriers in- 10,518 cases of the total number of patients in posicreased by 76%, from 17,375 cases to 30,644 cases. tive cases. In Municipality Dili has 4,169 of the The total number of syphilis cases in 2019 was 25.4 number of cases, total patients in positive has 56 cases per 100,000 adult population.

The Ministry of Health in Indonesia, 2023; noted A/ Oecussi has 1,0842 of the number of cases, total that there were 21,785 people confirmed to be in- patients with positives have 18 cases, Municipality fected with syphilis. The majority of patients with Covalima 2,117 cases total patients with positive 42 syphilis are male, i.e., 54%, while female patients cases and last Municipality of Bobonaro 2,062 of are 47%. The profile of patients was based on gen- the number of shards 33 people according to report der, where 48% were confirmed to have syphilis, of health cited by (Tilman CB., 2025). while in the male group it was 55%. 4% of chil-

dren under the age of 4 are affected by syphilis, fol-The World Health Organization (WHO, 2024) indi- lowed by 0.26% aged 5 to 15 years, 6% aged 6 to

the one with the highest number which suffers from the highest risk of syphilis has

cases, in Municipality Baucau 1,088 of the number of cases, total of positive patients 28 cases, RAEO-

10,416 of the number of cases, this is the total of 918 positive cases. In the Municipality of Dili 4, 265 cases this to the total of positive patients has 398 cases, Baucau Municipality 909 of cases, total The information scale is defined by Sri Lestari as of positive patients 115 cases positive patients 89 follows: Good knowledge (76% - 100%), Adequate of cases, of RAEOA/ Oecusse 1008 of cases of knowledge (56% - 75%) and Less data (Nursalam, positive patients 132 cases, Municipality of Suai 2022) (< 55%). According to Rahayu (2018) there Covalima 2116 of cases of the numbers this to the are seven (7) parts that the influence of knowledge total of positive patients has 140 cases, and last in is: education, experience, age, information, sociothe Municipality of Bobonaro 173 cases of positive culture, service and environment. According to No-156 cases or people cited by (Tilman CB., 2025).

Research Objectives: To know the level of data 1. Receiving and accepting means that someone and attitude of students about syphilis prevention at the Railaco General Secondary School, Railaco Ermera of Timor-Leste.

# **Theoretical Context**

Human knowledge according to how it is divided 3. Appreciating (appreciating) and inviting others into 6 levels, such as:

- 1. Knowing is like remembering previously learned material. Included in this level of infor- 4. mation is the recollection of something specific from all the material studied or the stimuli received. So, knowing is the lowest level.
- terpret the material correctly.
- 3. Application can be interpreted as an ability to bacterium enters the human body through mucous world condition.
- other.
- theories or formulations.

In 2022, the number of people who get tested is 6. Evaluation refers to the ability to make an assessment of a material or object, this appraisal is based on self-determined criteria.

> toatmodio, 2016, that attitude It consists of several levels:

- (subject) wants and attention to a particular stimulus (object).
- 2. Responding from answers when prompted, doing and completing a given task is an indication of attitude.
- to work on or discuss something problem is an indication of three-level attitudes.
- Responsible and accountable for everything you have chosen with all the risks is the highest attitude.

2. Understanding is like an ability to correctly ex- Syphilis is a type of Sexually Transmitted Disease plain about what is already known and can in- (STD). Thus, syphilis is a sexually transmitted disease caused by chronic Treponema pallidum. This use material that has been studied in a real- membranes (e.g. vaginally or in the mouth) or through the skin (Kent and Romanelli, 2018). To 4. Analysis is an aptitude to describe a material or the same thing was also asserted by Ecclestone, et. an object as a component, but still within the al. (2017), that syphilis is a sexually transmitted organizational structure and still related to each infection caused by the spirochete bacterium Treponema pallidum subspecies pallidum. Subspecies 5. Synthesis is an ability to constitute or connect, Treponema pallidum is a highly agile, spiralplan, summarize, adapt something to existing shaped Gram-Negative bacterium. Three other diseases in the human body are caused by Treponema cited by Tilman CB., 2025).

Spirochaete treponemes that have the shape of a cording to the World Health Organization guidespiral with a length between 5-20 microns and 0.1- lines for actions and role in the classification stand-0.2 microns wide, easily seen with a dark-field mi- ard (WHO, 2019; cited by Tilman CB., 2025) are as croscope it looks like a spiral that can perform follows. Early syphilis movements such as rotation. This organism anaer- 1. Primary syphilis and stage I syphilis (primary obes are easily killed by soap, oxygen, and safranin. In donor blood stored in the Treponema Pallidum refrigerator will die within three days, but can be transmitted by transfusion using fresh blood (Soedarto, 2018). The main route of transmission is through sexual contact. This infection can also be 2. transmitted from mother to fetus during pregnancy or at birth, which causes congenital syphilis (Koss, et, al. 2016). The same was stated by Battis (2014), that syphilis is a sexually transmitted infection caused by the bacterium Treponema pallidum. Transmission by sexual contact, direct contact, and congenital syphilis (via mother to child in utero). According to Coffin et, al. (2016), syphilis is a 3. chronic venerer disease. Even though the frequency of syphilis is decreasing, it is still a dangerous disease because it can attack all organs of the body, including the circulatory and nervous systems, and 4. can be transmitted by pregnant women to the baby they carry. A pregnant woman who is positive for syphilis can cause confectionery effects on the baby (Hawkes, et, al. 2018; cited by Tilman CB., 2025).

According to (Kent and Romanelli, 2017) syphilis b. Secondary syphilis (stage II) lasting time at 2symptoms usually begin to occur within 1 - 13weeks after infection. The infection can persist for c. Early Latent syphilis lasting < 1 year.

pallidum, including pâte, (subspecies per tenue), years and rarely causes heart damage, brain damdesign, (subspecies curate). Unlike the "pallidum" age, or death. Other symptoms are feeling unwell subtype, the species does not cause neurological (malaise), loss of appetite, nausea, fatigue, fever disease. Humans are the only "pallidum" subspecies and anemia. Whereas in the latent fa where there known to be natural reservoirs (Karp, et.al, 2018; are no symptoms. This face can last year or decades or even the long of life surfer. At the beginning of the latent phase, sometimes the wound infection Treponema pallidum belongs to the class and genus reappeared. The clinical symptoms of syphilis ac-

- syphilis) occur 10 to 90 days after infection occurs. The first lesions are red macules or papules that then become red papules turns an ulcer (chancre), with a hard border, the base of the ulcer is usually red and painless to palpation.
- Syphilis is secondary and occurs after 6 8weeks since stage I syphilis. In some cases, the C status is often still accompanied by Primary Syphilis (SI). In stage II syphilis it begins with symptoms consistent with anorexia, fever, arthralgia, angina. In this season abnormalities the skin, hair, mucous membranes of the mouth and genitalia, clear and internal lymph nodes.
- Early latent syphilis as clinical symptoms are not visible, but the results of serological tests for syphilis are positive. The tests that continue are VDRL and TPHA.
- Advanced Syphilis. On physical examination, stage I syphilis scars may be found on genitalia or macular atrophy of the old papules' stage II syphilis. Syphilis precooked is grouped into 3 classifications they are:
- Primary syphilis (stage I) lasting 3 weeks a.
  - 12 weeks

- tions are:
- e. Late latent syphilis lasting > 1 year.
- f. years.
- Cardiovascular syphilis lasting 10-30 years. g.
- h. Neurosyphilis lasting > 2-20 years.

Treponema pallidum enters easily through intimate injection for 10 to 14 days. contact with mucous membranes or through the eroded skin, quickly reaching the lymphatic organs and blood. After the incubation period, the primary lesion or cancer appears at the site of entry, consisting of an ulceration with intense infiltrate of mononuclear cells with lymphocytes, plasma cells and macrophages. In the secondary, there are lesions on the skin or mucous membranes, usually ulcerative and with abundant treponema. In late or tertiary syphilis, the lesions are of a destructive type, in some cases there is a fibrotic reaction with thickening of the meninges, meningovascular damage and often damages the cranial nerves, atrophying the optic nerve, the spinal cord can also be compromised. It is possible to present the case that granulomatous lesions end in areas of destruction by gum -like necrosis, in any part of the body, with a predilection for mucocutaneous areas, liver, bones, and testicle.

Treatment for syphilis is usually done with injec- heartbeat rapid heart rate, low breathing, and drop tions of Penicillin Benz Attina. Also known as Ben- in blood pressure. These symptoms Can remain for zamacril, which should be indicated by the general 12 to 24 hours and should only be treated with acetpractitioner, insect ologist or gynecologist - obste- aminophen, according to the health protocol cited trician, in the case of pregnant women diagnosed by (Tilman CB., 2025). with syphilis. The duration of treatment, as well as the number of injections, may vary according to the **Research Methodology** stage of evolution of the disease and symptoms pre- We use the research method is quantitative, desented. When the wound that does not heal and scriptive, probability sampling technique, simple

d. Advanced syphilis is grouped into 4 classifica- dose of Penicillin to cure syphilis, but when it comes to secondary or tertiary syphilis, up to 3 doses may be necessary. The injections are applied in Tertiary syphilis (stage III) lasting from 1 to 49 the gluteal region once a week, according to medical advice, however when it comes to tertiary syphilis or neurosyphilis it is necessary to be admitted to hospital, because it is a more advanced disease and has other complications involved. Ceftriaxone 1g

T. 0	<b>D</b>	A <b>N</b> / A <b>N</b>	
Face for	Recommend-	Alternatively,	
Disease	ed Treatment	treatments	
A syphi-	Unit doze of	Doxycycline 100	
lis pri-	Benzamacril	mg, 2 x for day per	
mary		15 days	
and sec-		,	
ondary			
The	1 Unit injec-	Doxycycline 100	
syphilis	tion of ben-	mg, $2 \times \text{for one day}$	
latent	zamacril	per 15 days	
recenter		1 5	
A syphi-	1 injection de	Doxycycline 100	
lis latent	benzamacril	mg, $2 \times \text{for one day}$	
lately	per week's,	plus 30 days.	
· ·	duration of 3	1 0	
	weeks		
A syphi-	1 injection de	Doxycycline 100	
lis ter-	Benzamacril	mg, $2 \times \text{for one day}$	
tiary	per week is.	plus 30 days.	
v	duration 3	1 5 5	
	weeks.		
Neuro-	Injection of	Injection of Ceftri-	
syphilis	Penicillin crvs-	axone 1g for 10 -14	
<b>VI</b>	talline per 14	davs	
	days	<i>j</i> -	

After the injection of penicillin, it is common for a reaction causing fever, muscle pain, headache,

does not hurt is still present, it is enough to take 1 random sampling with simple random method. The

population consists of students from the general shows that ESG exists. Railaco Ermera in 2024, the secondary school and 69 samples. Technical data students who are placed in the school are the majorcollection is the questionnaire instrument. We used ity of the 12th grade / CT class with total of 224 to collect with the questionnaire and analyze using and with (22%) based on the survey result, 2024. the SPSS (Statistical Package for the Social Scienc-

es) computer program version 24 as the univariate Neurosyphilis Guide of Treatment Standards. analysis test and bivariate analysis cited by (Tilman CB., 2025).

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71

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Total

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### **Results**

No

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The Primary and Secondary Syphilis

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11th 188 Natugrade ral Sciences 55 57 112 11 Social Sciences  $12^{t}$ 134 101 224 22 Natugrade ral Sciences 75 139 13 So-64 cial Sciences Stage Rec-Alter-Pri-

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Based on table 4.2, the student has qualified in ESG. Railaco Ermera in 2024, is as follows in the The 57 of students' attendance on Understanding 10th grade class / CT with a total of 176 of the stu- Syphilis prevention in ESG. Nicolau Lobato, Dili in dents and with (17%), 10th grade class / CHS with 2024.

of

Dis-

ease

a total of 195 of the students and with (19%), 11th grade class / CT with a total of 188 students and with (18%), 11th grade class / CHS with a total of 112 students and with (11%), 12th grade / CT class, with a total of 224 students and with (22%), and in the 12th grade / CHS class with a total of 139 students and with (13%). The Conclusion

		-
Single dose of benzamacril	Doxycycline 100 mg, 2 times daily for 15 days.	Recent latent syphilis
1 single injection	Doxycycline 100	Late la-
of benzamacril	mg, 2 times daily	tent syph-
	for 15 days.	ilis
1 injection of	Doxycycline 100	Tertiary
benzamacril per	mg, 2 times daily	syphilis
week for 3	for 30 days.	
weeks.		
1 injection of	Doxycycline 100	Neuro-
benzamacril per	mg, 2 times daily	syphilis
week for 3	for 30 days.	
weeks.		
Injection of Crystalline	Ceftriaxone 1g injection for 10	%
<b>Pennillion for</b>	to 14 days.	
14 days		
14-18	28	41
19-22	41	59
Naked	Class	Class
)9		
Woman	Man	Total
%	1	Year 10
Natural Sciences	105	71
176	17	41

Social Sciences

96	195	19
2	Year 11	Natural
		Sciences
101	87	188
18	29	42
Social Sciences	55	57

99

112	11	3
Year 12	Natural Sciences	134
101	224	22
Positively	26	Social Sciences
64	75	139

28

139

13	Total	%
Negative	Stage of Disease	Recom- mending Treat- ment
Alternative Treatment	Primary and Sec- ondary Syphilis	49
Good	Single dose of benzamacril	Doxycy- cline 100 mg, 2 times daily for 15 days.
Recent latent syphilis	1 single injection of benzamacril	Doxycy- cline 100 mg, 2 times daily for 15 days.

# The Bivariate data analysis and correlation test results-oriented

### 10

### Late latent syphilis

		Doxycy-	
		cline 100	
		mg, 2	
		times	
		daily for	
		30 days.	Tertiary syphilis
1 injection of	Doxycycline 100	Neuro-	.743**
benzamacril	mg, 2 times daily	syphilis	
per week for	for 30 days.		
3 weeks.	Injection of Crys-		%
	talline Pennillion		
	for 14 days		
	28	41	19-22
41	59	Naked**	Class
	Sig. (2-tailed)	<.001	
	Total	%	1
Yea	ur 10		

The result of the Pearson Correlation statistical test analysis with the significant value P value 0.001, which indicated the value 0.001 less than the value 0.05 means, is has a significant relationship between knowledge of knowledge and Syphilis prevention, with the result of correlation value with the value r = 0.743, which locates between 0.60 - 0.799category of strong correlation with relation is positive (+).

# Application

Natural science				
		71	176	
17	41	Total	- Social Sci-	
			ences	
	Sig. (2-		96	
	tailed)			
	19	2	Year 11	
Natural	101	87**	188	
Sciences	29	42		
	57	69	69	

The result of Pearson Correlation statistical test analysis with the significant value P value 0.001 indicates is the value 0.001 minus, the value 0.05 means is having significant relationship between understanding and prevention of syphilis with the result of the value correlation with the value r =0.720, which locates between 0.60 – 0.799 category of sufficient correlation with the ratio is positive (+).

Total

		11	
		Year 12	Natural Sciences
134	101	224	22**
	26		64
	139	69	69
13	Total	%**	Less
	487	1,034	
	Good	Sex	Frequency

The result of Pearson Correlation statistical test Significant test value F = 0.000 R value = .757a R analysis that the significant value P value 0.001 in- value quire = .573 dicates is the value 0.001 menus, the value 0.05 means is has a significant relationship between syphilis application and prevention with the result of correlation value with the value r = 0.753, which locates between 0.60 - 0.799 category sufficient with positive (+) ratio.

tailed). \*\*Attitude and Prevention.

		Man		
		ATI-		
		TUDED	PREVEN-	
		(X2)	TION (Y)	
41	Pearson Cor-	41	59 <sup>**</sup>	
	relation			
	69		.743	
	Acts	69	%	
PRE-	28	41**	19-22	
VENTIO	59	Total		
N (Y)	Sig. (2-	<,001	69	
	tailed)			

\*\*. Correlation is significant at the 0.01 level (2-tailed).

The result of the Pearson Correlation statistical verification analysis that the significant value P value 0.001 indicates is the value 0.001 less than the value 0.05 means is has a significant relationship between Attitude and Syphilis Prevention with result with the result of the correlation value with the value r = 0.743 which locates between 0.60 - 0.799category of sufficient correlation with the ratio of positive (+) cited by (Tilman CB., 2025).

%		Less	7	
		В	Т	Conclusions
1	(Constant)	441	<.00	
			1	
	49	Good	28	41
	69	.672	Sig. (2-tailed)	Between significant
				relation
	Applica-	Less	7	10
	tions			
	Enough	698	001<0.05	Retween significant
	Enough	.070	001 -0,05	
				relation

The result of the Linear Regression analysis indicates is the value strength correlation R = 0.757which sampled is has positive relationship between level of knowledge by information-packed to, understanding, application and attitude of the students with the prevention of syphilis with the category of \*\*.Correlation is significant at the 0.01 level (2- most strong correlation. And the value of the R Quire = 0.573 indicates is the level of knowledge with the value 57.3% and with the rest of 42.7% has a relation of the other variables that do not make the research are analysis, synthesis and evaluation. The result of the F test with the significant value 0.000>0.05 means is the level of knowledge of knowing. Understanding, Application, and Attitude has to Relate to and Prevention of Syphilis.

> The beta value of knowledge has 0.698 can justice is the variable refers to has a positive relationship of Syphilis prevention, while sampled is the knowledge 69.8% and the rest of 30, % has a relation of the other variable that does not due to the research are analysis, synthesis and evaluation.

> The beta value of understanding 0.672 can justify is the value refers to has a positive relationship of syphilis prevention, while a sample is understanding has 67.8% and the rest of 32.2% has a relation of the other variables that have not been done to the research are analysis, synthesis and evaluation.

> The beta value of application 0.717 can justify is the variable refers to has a positive relationship with syphilis prevention, while a sample is the variable of application 71.7% and the rest 28.3% has a relation of the other variables that do not do to the research are analysis, synthesis and evaluation.

The beta value of Attitude 0.698 can justify is the sufficient category 49%, comprised with a suffivariable 6.98%, cited by (Tilman CB., 2025).

### **Discussion**

The first hypothesis test result is based on Table 4.5. indicates is the significant value of test correlation knowledge of knowing less than 0.05 (0.000<0.05) are H0 not accepted of knowledge (X1) has a significant relationship of syphilis prevention.

The second hypothesis test result is based on Table 4.5. Indicates is the significant value of test correlation knowledge of comprehension less than 0.05 (0.000<0.05) are H0 not accepted of comprehension (X2) has significant relationship of syphilis prevention.

The third hypothesis test result is based on Table 4.5. indicates is the significant value of test correlation application knowledge less than 0.05 (0.000<0.05) are H0 not accepted of understanding (X3) has significant relationship of syphilis prevention.

The fourth hypothesis test result is based on Table 4.5. indicates is the significant value of attitude correlation test less than 0.05(0.000<0.05) are H0 not accepted of attitude (X4) has a significant relationship of syphilis prevention cited by (Tilman CB., 2025).

### Conclusion

The results of the research are carried out on the students' knowledge of the relationship with syphilis prevention in ESG. Railaco Ermera, in 2025 is:

Students' knowledge of syphilis prevention with a

variable refers to has a positive relationship of cient category 48%, application with a sufficient syphilis prevention, while, sampled is the attitude category 52% and Attitude also with a sufficient category 50%.

> Regarding the knowledge of students with syphilis prevention with test results, Pearson Correlation statistical with sufficient category with a value r =0.743 and significantly P value 0.001 < 0.05 that H0 is not accepted. Comprehension is related to syphilis prevention with Pearson Correlation statistical test results with sufficient category with value r = 0.720 and significantly P value 0.001 < 0.05 that H0 is not accepted. Application is related to syphilis prevention with Pearson Correlation statistical test results with sufficient category with value r =0.753 and significantly P value 0.001 < 0.05 that H0 is not accepted. And Attitude Application is related to syphilis prevention with Pearson Correlation statistical test results in the sufficient category with value r = 0.743 and significantly P value 0.001 < 0.05 that H0 is not accepted.

> The results of the linear regression analysis show that the value of the correlation strength R = 0.757and that there is a positive relationship between the level of knowledge, knowledge, understanding, applications and attitude of the students with syphilis prevention who are categorized the correlation is stronger. And R value X Quire = 0.573 show the level of knowledge with the value = 57.3% and the rest of 42.7% is related to other variables that do not do the research are analysis, synthesis and evaluation according to the statistical analysis result cited by (Tilman CB., 2025).

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