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CHANGES IN THE AWARENESS OF SOCIAL SCIENCES STUDENTS ON SEXUALLY TRANSMITTED DISEASES DURING A DECADE

ABSTRACT

We investigated the change in the status of awareness of the Social Sciences Faculty students on sexually transmitted diseases during ten years. The study was conducted in two stages each comprising 245 Social Sciences Faculty students first in 2000-2001 and the second in 2009-2010 educational years. Group I were composed of 40% female and 60% male, and Group II were of 34.7% female and 65.3% male students. The overwhelming majority of the students have responded unknown partner as risky for STDs. Significantly more students reported the chance of transmission of urethritis per intercourse for male partners correctly. By contrast, no change was observed in the responses that of for females. Lesser students responded the definition of honeymoon cystitis as urinary tract infection at first month. More students of all the groups found unsafe sexual experience to overcome first night failure anxiety risky for STDs. Overwhelmingly more students preferred medical doctors in case of STDs for treatment. Our results have clarified that during the last decade the awareness levels of the Social Sciences Faculty students on STDs have not increased. Formal sexual education should be a part of academic education least at the beginning years of university education

Keywords: Sexually Transmitted Diseases, Education,

Public Health, Awareness, Students, Universities

SOSYAL BİLİMLER ÖĞRENCİLERİNİN CİNSEL YOLLA BULAŞAN HASTALIKLAR KONUSUNDA FARKINDALIKLARINDA SON ON YILDA GÖZLEMLENEN DEĞİŞİKLİKLER

ÖZET

Sosyal Bilimler öğrencilerinin son on yıl içerisinde cinsel yolla bulaşan hastalıklar (CYBH) konusunda farkındalık oranlarında ki değişimleri araştırdık. Her biri 245 kişiden oluşan 2000-2001 ve 2009-2010 eğitim yıllarından iki gurup üzerinde anket çalışması yapıldı. Grup I'in %40'ı kız ve %60'ı erkek ve Grup II ise %34.7 kız ve %65.3 erkek öğrencilerden oluşuyordu. Öğrencilerin ekseri çoğunluğu tanımadığımız biriyle ilişkiyi CYBH açısından riskli buluyordu. Anlamlı oranda daha fazla öğrenci erkekler için ilişki başına CYBH bulaşma riskini doğru olarak işaretlemişti. Ancak, bayanlardaki risk konusunda bir farklılık yoktu. Balayı sistitini doğru olarak tanımlayanların sayısında azalma gözlendi. Bütün guruplardaki öğrencilerin çoğunluğu ilk gece başarısızlığını yenmek amacıyla güvenli olmayan cinsel deneyimi CYBH açısından riskli bulmuştu. Öğrencilerin büyük ekseriyeti CYBH durumunda tedavi amacıyla tıp doktoruna başvurulması gerektiğini tercih etmişti. Sonuçlarımız, Sosyal Bilimler öğrencilerinin CYBH konusunda farkındalık oranlarının son on yıl içinde artmadığını gösterdi. Lisede verilen cinsel eğitim yanı sıra, üniversite hayatının başlangıç yıllarında da CYBH konusunda gençlere eğitim verilmesi gerektiğini öneriyor.

Anahtar Kelimeler: Cinsel Yolla Bulaşan Hastalıklar, Eğitim, Halk Sağlığı, Farkındalık, Öğrenciler, Üniversiteler



1. INTRODUCTION (GİRİŞ)

We previously investigated and reported the status of sexual experience and awareness of the Social Sciences Faculty students during ten years, and reported increased percentage of the students confessing sexual experience [1]. In this study, we aimed to determine the change in the awareness of the same students about risky sexual behaviours for the common sexually transmitted diseases (STD) depending on gender, and rural and urban origin of the students.

The rapid socio-cultural transformation prevailing in the period of integration of our country with the European Union over the last decade carries serious risks, especially among the young. The sexual education of adolescents is not yet structured adequately in Turkey. Previous reporters [2] have stressed the need for studies to interrogate the knowledge and awareness of the students on STDs from the developing eastern part of our country. We preferred social science students because, they undergo ordinary health sciences lessons, and no formal lessons on sexuality and STDs have been taken at University. Studies on STDs have been encouraged because of the reported gradually increased incidence [3]. Previous reports have suggested that knowledge of the university students on STDs not yet adequate [4]. Moreover, most of them have mainly focused on HIV/AIDS, and risky population for more prevalent STDs and the risky behaviors and the status of awareness for them have been ignored [5 and 6].

2. RESEARCH SIGNIFICANCE (ÇALIŞMANIN ÖNEMİ)

In the last decade, our country has entered the process of integration with the European Union. In this process, social change and transformation have been experienced. Sexually Transmitted Diseases (STDs) has become one of the most important issues of our time. Because of concentration of education and information mainly on HIV/AIDS, the information on more common STDs has been ignored. We performed a survey analyses on Social Sciences Faculty students who did not receive formal sexual education. Our findings demonstrated that awareness levels of the students have been worsened, because of lack of formal education and prevailing misinformation through the media and internet. Adequate information and awareness levels should be obtained for healthy sexual relationship and healthy next generations. The positive results of providing this education during the high-school are well known. Our findings suggest continuation of education at least at the initial years of University and importance of peer education.

3. MATERIALS AND METHODS (MATERIAL VE METOTLAR)

We carried out a cross-sectional comparative survey of all four grades of students in the Social Sciences Faculty in the eastern part of Turkey. The data were collected in February of the 2000-2001 and 2009-2010 academic years. The participants were 245 students from each academic year. We used the same questionnaire to determine the demographics, sexual experience and preferences of the students.

The research aims were explained to the participants and the administration, and consents to participation in the study were obtained. Researchers explained to students the purpose of the study and emphasized that participation was totally voluntary. They were given assurances that the information they provided would be kept confidential and were asked not to write their names or any kind of identifying information. An anonymous questionnaire in Turkish was given to the students after completion of the information. To ensure maximum objectivity in students' answers, researchers were instructed not to give any additional clarification for questions which were not



understood. The students were asked to feel free not to fill in the questions which they did not consider appropriate.

A self-administered questionnaire was developed based on the literature and an assessment of reliability. The questionnaire was composed of 13 questions, three of them including personal features such as; age group (Q1), gender (Q2) and the regional origin of students (Q3), and ten of them interrogating; definition of risky partner for sexual intercourse (Q4), risk of transmission of urethritis per intercourse for male (Q5), risk of transmission of urethritis per intercourse for female (Q6), most prominent complication of urethritis in males (Q7), most prominent complication of syphilis (Q10), their opinion on unsafe sexual experience to overcome first night failure anxiety (Q11), preference of the students with STDs for help (Q12) and their knowledge on the treatment of urethritis (Q13).

4. ISTATISTICAL ANALYSIS (İSTATİSTİKSEL ANALİZ)

The differences between study groups were analyzed by the Pearson X^2 test and Fisher's Exact Test. All analyses were performed using the Statistical Package for Social Sciences (SPSS) for windows, version 17.0. The statistical significance was set at p<0.05. Missing values were not replaced, and variables were analyzed as available. Percentages were used here for presentation of data.

Group sample sizes of 245 in Group I and 245 in Group II achieved 100% power to detect a difference between the group proportions of -0.27. The proportion in Group I is assumed to be 0.72 under the null hypothesis and 0.45 under the alternative hypothesis. The proportion in Group II is 0.72. The test statistic used is the two-sided Mantel-Haenszel test. The significance level of the power analysis test was targeted at 0.05. The significance level actually achieved by this design is NA [7, 8 and 9].

5. RESULTS (SONUÇLAR)

Socio-demographic characteristics of the participating students have been given and discussed in our previous report [1]. Briefly, the age of the participating students attending the Social Sciences Faculty have minimally decreased. Group I were composed of 40% female and 60% male, and Group II were 34.7% female and 65.3% male students. This difference was also not significant. By contrast, the region of origin of the participating students among the groups differed highly significantly over the ten year period (p<0.001). The number of participating students attending the Social Sciences Faculty from rural areas has more than doubled in a decade (from 13.5% to 31.4%).



Table 1. Distribution of social and demographic characteristics, and changes in the awareness of the sexually transmitted diseases of the students during a decade

(Tablo 1. Öğrencilerin sosyal ve demografik özellikleri ve cinsel yolla bulaşan hastalıklar konusundaki farkındalık oranlarının dağılımı)

	u	agılımı)	r		
		GI	GII	P-Value	
Questions		N (%)	N (%)	(Pearson	
				X ²)	
	< 20	43 (17.6)	69 (28.2)		
Age	20-25	178 (72.7)	112 (45.7)	0.322	
	> 20	24 (9.8)	64 (26.1)		
-	Female	98 (40.0)	85 (34.7)	0.000	
Sex	Male	147 (60.0)	160 (65.3)	0.226	
Region of	Rural	33 (13.5)	77 (31.4)		
origin	Urban	212 (86.5)	168 (68.6)	0.000	
Risky for	Known partner	42 (18,4)	57 (25,3)		
contagious		12 (10,1)	37 (23,3)	0,075	
STD	Unknown partner	186 (81,6)	168 (74,4)	0,075	
Transmission	90%	35 (16,1)	44 (18,1)		
of	20%	91 (41,9)	137 (56,4)		
urethritis				0 001	
per		01 (41 0)		0,001	
intercourse	50%	91 (41,9)	62 (25,5)		
for males is					
Transmission	40%	84 (39,8	66 (27,5)		
of	10%	86 (40,8)	130 (54,2)		
urethritis		00 (10,0)	200 (01/2/		
per				0,009	
intercourse	80%	41 (19,4)	44 (18,3)	0,000	
for females		··· (··//··/	44 (10, 5)		
is					
Most	Ejeculatio				
	-	107 (50 2)	70 (22 2)		
prominent	precox and	107 (50,2)	79 (33,2)		
complication	infertility			0,000	
of	Lumbar and	91 (42,7)	98 (41,2)		
urethritis	articular pain				
in males is	Arteriosclerosis	15 (7,0)	61 (25,6)		
Most	Menometroragia	99 (46,9)	96 (41,2)		
prominent	PID	103 (48,8)	79 (33,9)		
complication				0,000	
of				0,000	
urethritis	dizziness,	9 (4,3)	58 (24,9)		
in females	vertigo				
is					
	UTI at first		40 (00 0)		
	months	61 (34,5)	48 (20,8)		
Honeymoon	Unwillingness			0,000	
cystitis is	for copulation	61 (34,5)	69 (29,9)	-,	
	Dyspareunia	55 (31,1)	114 (49,4)		
	Urethral				
	discharge	71 (56,8)	68 (37,6)		
	Clean hard ulcer				
First sign		$2 \in (20, 0)$	72 (20 0)		
of Syphilis	at groin	26 (20,8)	72 (39,8)	0,001	
is					
	Dirty soft ulcer	28 (22,4)	41 (22,7)		
	at groin				
1					



Table 1						
Unsafe sexual	Not risky and it's a tradition	76 (36,9)	81 (37,2)			
experience to overcome first night failure anxiety	Risky for STDs	130 (63,1)	137 (62,8)	0,955		
Preferences	Medical doctor	161 (69,1)	130 (53,1)			
of the	Medical officer	3 (1,3)	52 (21,2)			
students	Friend	69 (29,6)	50 (20,4)	0,000		
with STD for help is	Drugstore servant	0 (0,0)	13 (5,3)	l		
Urtehritis is treated with	A single dose antibiotic	10 (4,5)	57 (23,5)			
	No need for drugs	11 (5,0)	73 (30,0)	0,000		
	An urologist's prescription	201 (90,5)	113 (46,5)			
Group I = 245 Social Sciences Faculty students of 1999-2000 educational year, Group II = 245 Social Sciences Faculty students of 2009-2010 educational year.						

Table 1 shows the comparison of the change in the distribution of the responses among participating two groups of students. The distribution of responses among the participating male and female students is shown in table 2, and that of the students coming from rural and urban areas is shown in table 3. The overwhelming majority of the students were found unknown partner as risky for STDs. There were no significant difference among Group I and II students, female students and students coming from urban areas. By contrast, significantly more male students and students coming from rural areas found known partner as risky for STDs.



Table 2. Distribution of awareness of the sexually transmitted diseases among male and female students during a decade (Tablo 2. Son on yılda erkek ve kız öğrencilerin cinsel yolla bulaşan hastalıklar konusundaki farkındalık oranlarının dağılımı)

	uestions	Male GI (%)	Male GII (%)	P-Value (Pearson	Female GI (%)	Female GII (%)	P-Value (Pearson
		14	27	X ²)	28	30	X ²)
Risky for contagious STD	Known partner	(10,1)	(18,2)		(31,5)	(39,0)	
		125	121	0,048	61	47	0,312
	Unknown partner	(89,9)	(81,8)		(68,5)	(61,0)	
Transmission of urethritis	90%	21	24		14	20	
		(15,7)	(15,1)	-	(16,9)	(23,8)	
per	20%	60 (44,8)	90 (56,6)	0,093	31 (37,3)	47 (56,0)	0,002
intercourse		53	45		38	17	
for males is	50 %	(39,6)	(28,3)		(45,8)	(20,2)	
Transmission	40%	50	41		34	25	
of urethritis	40%	(37,9)	(26,5)	-	(43,0)	(29,4)	
per	10%	57	86	0,077	29	44	0,120
intercourse		(43,2)	(55,5) 28	-	(36,7) 16	(51,8) 16	
for females is	80%	(18,9)	(18,1)		(20,3)	(18,8)	
	Ejeculatio precox and	63	56		44	23	
Most prominent	infertility	(46,3)	(35,2)		(57,1)	(29,1)	
complication	Lumbar and arthicular	64	64	0,000	27	34	0,000
of urethritis	pain	(47,1)	(40,3)		(35,1)	(43,0)	0,000
in males is	Artheriosclerosis	9 (6,6)	39 (24,5)		6 (7,8)	22 (27,8)	1
		69	55		30	45	
Most prominent	Menometroragia	(54,3)	(34,5)		(35,7)	(52,9)	
complication	PID	51	51	0,000	52	24	0,000
of urethritis	FID	(40,2)	(37,2)	0,000	(61,9)	(28,2)	
in females is	dizziness, vertigo	7 (5,5)	42		2 (2,4)	16	
	UTI within first	34	(28,4)		27	(18,8)	
	months	(29,3)	(19,9)	0,033	(44,3)	(22,5)	0,006
Honeymoon	Unwillingness for	43	47		18	22	
cystitis is	copulation	(37,1)	(31,1)		(29,5)	(26,2)	
	Dyspareunia	39	74		16	40	
	2,000000000	(33,6)	(49,0)		(26,2)	(50,0)	
	Urethral discharge	52 (55,9)	50 (40,0)		19 (59,4)	18 (32,1)	0,032
First sign of	Clean hard ulcer at	20	49		6	23	
Syphilis is	groin	(21,5)	(39,2)	0,016	(18,8)	(41,1)	
	Dirty soft ulcer at	21	26		7	15	
	groin	(22,6)	(20,8)		(21,9)	(26,8)	
Unsafe sexual	Not risky and it's a	54	57		22	24	0,688
experience to overcome first	tradition	(42,5)	(40,7)	0,765	(27,8)	(30,8)	
night failure	Risky for STDs	73	83	0,785	57	54	
anxiety		(57,5)	(59 , 3)		(72,2)	(69,2)	
	Medical doctor	85	83		76	47	0,000
Preferences of		(60,3)	(51,9)	-	(82,6)	(55,3)	
the students	Medical officer	1 (0,7)	37	0,000	2 (2,2)	15	
with STD for help is		55	(23,1)		14	(17,6)	
	Friend	(39,0)	(19,4)		(15,2)	(22,4)	
	Drugstore servant	0 (0,0)	9 (5,6)	1	0 (0,0)	4 (4,7)	1
Urtehritis is treated with	A single dose	7 (5,1)	33		3 (3,6)	24	24 28,6) 22 0.000
	antibiotic	(J, 1)	(20,8)	1	5 (5,0)	(28,6)	
	No need for drugs	9 (6,5)	55	0,000	2 (2,4)		
	-	122	(32,1)	-	79	(26,2)	,
	An urologist's prescription	(88,4)	75 (47,2)		(94,0)	38 (45,2)	
Group T = 199	9-2000 educational year			Sciences Fa			
	09-2010 educational year					Ŧ	



Table 3. Distribution of awareness of the sexually transmitted diseases of the students from rural and urban during the last decade (Tablo 3. Kırsal ve kentsel orjinli öğrencilerin son on yıl içerisindeki cinsel yolla bulaşan hastalıklar konusunda farkındalık oranlarının dağılımı)

	010	anlarını	n uagii.		r	1	
Qu	estions	Rural GI	Rural GII	P-Value (Pearson X ²)	Urban GI	Urban GII	P-Value (Pearson X ²)
Risky for contagious	Known partner	3 (10,3)	23 (31,5)		39 (19,6)	34 (22,4)	
STD	Unknown partner	26 (89,7)	50 (68,5)	0,027*	160 (80,4)	118 (77,6)	0,526
Risk of transmission	90%	6 (21,4)	28 (16,9)		16 (20,8)	29 (15,3)	
of urethritis per	20%	12 (42,9)	44 (57,1)	0,321	79 (41,8)	93	0,007
intercourse for males is	50%	10 (35,7)	17 (22,1)		81 (42,9)	45 (27,1)	
Risk of transmission	40%	10 (35,7)	20 (26,0)		74 (40,4)	46 (29.0)	
of urethritis per	10%	13 (46,4)	42 (54,5)	0,616	73 (39,9)	88 (54,0)	0,023
intercourse for females is	80%	5 (17,9)	15 (19,5)		36 (19,9)	29 (17,8)	
Most	Ejeculatio precox and infertility	13 (50,0)	32 (42,1)		94 (50,39	47 (29,0)	0,000
prominent complication	Lumbar and arthicular pain	11 (42,3)	28 (36,8)	0,304	80 (42,8)	70 (43,2)	
of urethritis in males is	Artheriosclerosis	2 (7,7)	(21,1)		13 (7,0)	45 (27,8)	
Most	Menometroragia	11 (42,3)	33 (44,6)		88 (47,6)	63 (39,6)	
prominent complication	PID	12 (46,2)	25 (33,8)	0,397	91 (49,2)	54 (34,0)	0,000
of urethritis in females is	dizziness, vertigo	3 (11,5)	16 (21,6)		6 (3,2)	42 (26,4)	
	UTI at first months	7 (29,2)	20 (28,2)		54 (35,3)	28 (17,5)	
Honeymoon cystitis is	Unwillingness for copulation	7 (29,2)	22 (31,0)	0,986	54 (35,3)	47 (29,4)	0,000
	Dyspareunia	10 (41,7)	29 (40,8		45 (29,4)	85 (53,1)	
	Urethral discharge	10 (58,8)	18 (31,6)		61 (56,5)	50 (40,3)	
First sign of Syphilis is	Clean hard ulcer at groin	6 (35,3)	24 (42,1)	0,073	20 (18,5)	48 (38,7)	0,003
	Dirty soft ulcer at groin	1 (5,9)	15 (26,3)		27 (25,0)	26 (21,0)	
Unsafe sexual experience to	Not risky and it's a tradition	13 (56,5)	39 (56 , 5)		63 (34,4)	42(28,2)	
overcome first night failure anxiety	Risky for STDs	10 (43,5)	30 (42,5)	0,594	120 (65,6)	107 (71,8)	0,000
Preferences of the students with STD for help is	Medical doctor	20 (64,5)	33 (42,9)		141 (69,8)	97 (57 , 7)	
	Medical officer	0 (0,0)	17 (22,1)	0,006	3 (1,5)	35 (20,8)	0,000
	Friend	11 (35,5)	20 (26,0)		58 (28,7)	30 (17,9)	
	Drugstore servant	0 (0,0)	7 (9,1)		0 (0,0)	6 (3,6)	
Urtehritis is treated with	A single dose antibiotic	2 (6,9)	21 (27,3)		8 (4,1)	36 (21,7)	
	No need for drugs	1 (3,4)	25 (32,5)	0,000	10 (5,2)	48(28,9)	0,000
	An urologist's prescription	26 (89,7)	31 (40,3)		175 (90,7)	82 (49,4)	
	9-2000 educational yea ational year students						

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Significantly more students responded the chance of transmission of urethritis per intercourse for male partners correctly among group II, female students and students coming from urban areas, but not among males and rural origin students. By contrast no changes in the percentage of the students have been observed for the chance of transmission of urethritis per intercourse for female partners among all the groups. The ratios of true responders of most prominent complication of urethritis in males as ejeculatio precox and infertility have dropped significantly among Group I and II, in both gender, and urban origin students, but lesser decrease were observed among rural origin students. The ratios of true responders of most prominent complication of urethritis in females as pelvic inflammatory disease (PID) have dropped significantly among all the groups and most prominent drop were observed among female students. Lesser students responded the definition of honeymoon cystitis as urinary tract infection at first month during a decade. Significantly more students correctly answered first sign of Syphilis as clean hard ulcer at the groin among all the groups during a decade. But correct responders were always less than half of the participating students.

More students of all the groups found unsafe sexual experience to overcome first night failure anxiety risky for STDs, but not among rural origin students. Overwhelmingly more students preferred medical doctors in case of STDs for treatment. But, this preference has dropped during a decade among all the groups. Although, more students preferred urologist's prescription for the treatment of urethritis, the percentages of the students preferring urologist's prescription have dropped significantly during a decade among all the groups.

6. DISCUSSION (TARTIŞMA)

Our results have clarified that during the last decade the awareness levels of the Social Sciences Faculty students on STDs have not increased. Even some clear and risky decreases have been observed. Around 20% of the students reported known partner as risky for STDs.

This may stem from lack of confidence to their known partners. The decrease was more prominent among male gender and rural origin students. Awareness of the students for the risks of urethritis per intercourse for males and females are also less than half of the participants for males and less than a quarter among male and female gender, and rural and urban origin students. Complications of the urethritis were also not answered correctly by around half the students. The association between sexual intercourse and subsequent acute symptomatic urinary-tract infection in women within the first moth is often labeled as honeymoon cystitis. A significant drop was observed in correct definition of honeymoon Cystitis (34.5 vs. 20.8) during the last decade. By contrast, the percentage of correct responders for the first sign of Syphilis has significantly increased during the last decade, among both genders and urban origin students. A borderline increase in the response rate was observed among rural origin students (35.3 vs 42.1). These findings suggest that the awareness of the participating students on risks of transmission STDs and its complications is still not in satisfying levels. Incorrect knowledge is prevailing among them and this has not been changed during the last decade. Other researchers from our Country have also confirmed the lack of knowledge levels of university students [10 and 11]. A questionnaire on knowledge of sexually transmitted diseases (STDs) was applied to 630 Victorian university students. Overall students demonstrated moderate levels of knowledge. They had more knowledge about the labels than they did about symptoms and transmission modes and were misinformed about certain clinical aspects



of STDs. The reporters comment that identification of a label is of limited personal value if there is no concurrent knowledge about disease transmission and prognosis [12]. Another study from the same Country reported that youth of rural origin had adequate knowledge on HIV/AIDS, but not on common STDs [13]. A study from Nigeria reported that 92% of the students declared having sexual experience and their knowledge on transmission and symptoms of HIV/AIDS were found adequate [14]. Another study from Nigeria reported good general awareness of the common STDs, HIV/AIDS of adolescent female high school students [15]. Similar findings were suggested from our Country that awareness levels of STDs of youths with formal sexual education were meaningfully higher [3].

Turkish society, especially inhabitants of conservative eastern Anatolia, is very sensitive for first night sexual performance of just married couples. It bears plenty of traditional meanings. Families and just married couples undergo high level of anxiety during wedding ceremonies. To overcome first night sexual performance anxiety, some but not less prefer to test the groom just before the marriage with usually unsafe risky relationship. Overall 34% of the students responded that they find unsafe sexual experience to overcome first night failure anxiety as traditional and not risky. This ratio was increased to 42% among males and 56,5% among rural origin students.

Moreover, this approach did not change during the last decade. As a result, this tradition still survives as a real problem of Turkish society for the spread of STDs.

More than half of the students preferred medical doctors in case of STDS, though this preference is significantly dropped from 69.1% to 53.1% during the last decade. Most prominent decrease was observed among female students (from 82.6 to 55.3). Discussing with a close friend always came as a second preference of the students. In case of urethritis, the number of students preferring to attend to an urologist is significantly dropped during the last decade among all the responders. This and other superstitious mentality may stem from misinformation spreaded throughout media and internet during the last decade.

Our study has several limitations. First, its cross-sectional design was limited in evaluating cause-and-effect associations. Second, the results obtained in our study should not be generalized to all young Turkish people or to all Turkish university students, because our sample population was so small and located in the sparsely populated eastern part of Turkey. The socio-demographic or socioeconomic characteristics of regions in our country show great diversity.

7. CONCLUSION (SONUÇ)

Present inadequate level of awareness of the students on transmission, sign and complications of STDs increases the risks for them. Misinformation spreaded by way of media and internet produced false self confidence about STDs among young people. Our results confirmed that things getting worse than the past generations. Academic efforts should be concentrated on finding effective ways to provide easily obtained true information for youths. Efforts should concentrate on providing the students with adequate information officially and peer education. Furthermore, formal sexual education should be a part of academic education least at the beginning years of university education.



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NOTICE (NOT)

The present manuscript is a follow up study of the work we have already published at "Eur J Sci Res 51, pp: 349-358" with full consensus.

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