Attitudes, behaviors, and influencing factors of medical and health sciences students towards dating violence

Elif Cil¹, Pınar Erbay Dundar²

¹M.D., ²Prof., Manisa Celal Bayar University, School of Medicine, Department of Public Health, Manisa, Turkey https://orcid.org/0000-0002-0037-7786-https://orcid.org/0000-0002-9923-9657

SUMMARY

Objective: Dating violence is common and important however preventable public health. Many studies show that both men and women are widely affected. According to studies done in Turkey, the ratio of being exposed to violence or abuse in a dating relationship changes up to 85.3%. Our objective was to evaluate the prevalence of dating violence and the attitudes and its affecting factors among healthcare university students.

Method: A total of 908 students were included in the analyses. Univarite and multivariate analysis were carried out.

Results: Of the participants, 36.6% had never heard of the concept of dating violence. The prevalence of exposure to dating violence was 33.6%, the prevalence of perpetration was 17.8% in past relationships; the rate of those who are exposed is 10.1% and the rate of those who perpetrated dating violence is 6.7% in their current relationships. Psychological dating violence was the type of dating violence that was committed and exposed the most in both current and past relationships. Women, students at the clinical education level, and students from upper social class had unfavorable attitudes toward dating violence more. Those who did not witness dating violence in their close circle of friends had better attitudes toward dating violence. Witnesses of domestic violence and statistically significant favorable attitude towards psychological dating violence more than of those who all not Only one of the 232 people stated that they applied to the official authorities when exposed to dating victor.

Discussion: It is alarming that one in three medical and health science student, who should be among the primary people who need to take action against violence in the future, have new heard of dating violence.

(1,4,5).

Key Words: Violence, intimate partner violence, exposure to violence

INTRODUCTION

Intimate partner violence (IPV) refers a be avior within an intimate relation hip that causes physical, sexual, or psycholog, al h rm, including acts of physical aggression, exac coercion, psychological abuse, and controlling behaviors. This definition covers violence by both current and former spouses and partners (1, 2). Dating violence (DV) is a form of IPV that can be experienced at an early age, is challenging to distinguish, and can have lifelong effects on health and well-being (1). It can escalate into many forms of violence, such as domestic violence, which is another important form of violence in adulthood. (3). Therefore, establishing its detection and awareness enables the prevention of many types of violence that may occur in the future **DOI:** 10.5505/kpd.2025.47600

About one in 4 women and one in 10 men experienced contact sexual violence, physical violence, and/or stalking by an intimate partner, and reported an IPV-related impact during their lifetime (1). IPV is also shown to be quite common among adolescents and young adults (6,3). The research on violence against women conducted by WHO in 161 countries between 2000 and 2018 revealed that one out of every three women (30%) was exposed to sexual or physical violence by a partner or nonpartner (3), while a national study conducted in the USA revealed that four out of every ten college students have been subjected to violence or harassment in a dating relationship (7). Similarly, in Turkey, these rates go up to 85.3% (8,9,10,11,12,

Cite this article as: Cil E, Erbay Dundar P. Attitudes, behaviors, and influencing factors of medical and health sciences students towards dating violence. Turkish J Clin Psych 2025; 28:

The arrival date of article: 05.01.2025, Acceptance date publication: 12.09.2025

Turkish J Clinical Psychiatry 2025;28:



13,14). Consequently, DV is very common among adolescents and young adults, but it is also a preventable public health problem (1,3,15).

Theories offer different explanations for violent behavior and its use. In social learning theory (SLT), witnessing or being exposed to violence in the family and in feminist theory, the power control mechanism between men and women created by an underlying patriarchal social system considered main determinants of violent behaviour. Moreover, in the theory of social norms, violent behaviour occur as people tend to conform to social norms even if they are harmful, such as violence. (16). Though interventions have little impact on the perpetration and victimization of DV, their success in improving knowledge and attitudes toward DV still warrants further research (17).

In previous studies being an adolescent, gender, low socioeconomic status, living in a rural area, living with extended family, using alcohol and drugs, eating and sleeping disorders, mental health problems such as fear, anxiety, trauma and suicide, social isolation, shame, guilt, anger, aggression, lack of support system of individuals, conflicts in relationships, history of violence among family or close friends, exhibiting asocial behaviors, previous exposure to violence have effects on DV (10,18,19, 20).

Previous studies, in accordance with the SLT, showed those who had been exposed to domestic violence in childhood perpetrated DV more than 4.87 times and those who witnessed it more than 3.84 times (21). The fact that those who have not witnessed intimate partner violence during childhood still constitute a significant part of the perpetrators, necessitates the investigation of other risk and protective factors (5).

Healthcare professionals are key players in reducing gender discrimination and violence, and it is vital that they have a high awareness of - them, and they are well-equipped to take the necessary steps when in need (22, 23, 24) Therefore, we aimed to evaluate the prevalence of DV behaviour and the attitudes toward it and its affecting factors among the students of the Faculty of Health Sciences and

Faculty of Medicine at Manisa Celal Bayar University.

Accordingly, - three research questions were formulated:

- Q1. What is the prevalence of perpetration and exposure rate of DV in healthcare students' past and present relationships?
- Q2. What are the factors that affect the DV attitudes of healthcare students?
- Q3. What are the factors that affect the DV behavior of healthcare students?

METHODS

This cross-sectional study was carried out at Manisa Celal Bayar University, Faculty of Medicine, and Faculty of Health Sciences in 2021-2022 educational period. The population of the study consists of 3794 students, 1320 medical and 2474 health sciences students (including midwifery, nursing, social work, physiotherapy, and rehabilitation departments), studying at Manisa Celal Bayar University in Turkey.

Since the results of the previous prevalence studies that used the same scale indicate a very wide range (2.4-85.3%), a DV prevalence value of 50.0% (unknown prevelance) is adopted. The sample size was calculated as 843 on Epi info 7 software, by taking a value of 0.05, the study confidence level of 99.9%, and a design effect of 1 (25). The number of people who first participated in the study was 614, and after 2 reminders, the total number of participants included in the analyses was 908, reaching a response rate of 23.9%.

Data Collection and Tool

Due to the COVID-19 pandemic, participation in theoretical classes was not mandatory. To reach out to the students who choose to attend classes online or who were in an isolation period for any reason, the Google online survey method was used for collecting data. Data collection forms were delivered to the students through WhatsApp groups specific to the year in which all students were a member. A total of 2 reminders were made on the 2nd and 4th days. The data collection form, which was created by the researchers by reviewing the literature and included the Intimate Partner Violence Attitude - Revised Form-Scale (IPVAS-R), was used.

Dependent Variable

The dependent variable of the study was the attitude toward DV. It was evaluated using the Intimate Partner Violence Attitude Scale-Revised Form (IPVAS-R) scale. The scale developed by Fincham et al. (2008) was designed to measure the attitudes of university students toward psychological and physical aggression experienced in a dating relationship (26). Demirtas et al. completed the adaptation study to Turkish (13). IPVAS-R is a selfassessment scale consisting of 3 dimensions (abuse-8 items, control-5 items, and violence-4 items) and 17 items (13). In the directive used, it was requested from participants to rate how compatible each item was for them, between 1 (Strongly Disagree) and 5 (Strongly Agree). The scale does not have a cut-off score and an increase in the scale scores indicates an increase in the level of acceptance of DV by the participant. Items 2, 4, 5, 8, 12, 13, 14, and 17 of the scale are reverse scored. While the dimension of "violence" was used to measure attitudes toward physical violence, the dimension of "abuse" and "control" were included to measure attitudes toward psychological violence. The milimum and maximum scores that can e tak n from each sub-dimension of physical violence and psychological violence were 4-20 and 13-65, respectively. Cronbach's alphy for the full IPVAS-R was .72. The internal consistency coefficients of the scale were calc. (ated as .72, .62, and .65 for violence, control and abuse dimensions, respectively. In our study, Cronbach alpha value was 0.82 for the total scale.

Independent Variables

In the first section, the sociodemographic and personal characteristics of individuals were questioned. In the second section, which included questions about dating relationships and DV, the first question was whether ever heard of the DV concept before. After this question, a brief explanation of DV (†) was given, so that the participants could answer the following questions more accurately. Subsequently, whether ever dated before, the age of the first dating relationship, the longest duration of a dating relationship, whether ever committed or been exposed to DV before, what type of DV was exposed to, and their reaction to it, having a current dating relationship, (if yes) the duration of it, whether commits or exposes to DV in the current dating relationship, if so the type of the DV and the related reaction when exposed to DV in the current relationship, whether shared this situation with her family or anyone besides family and their reactions and witnessing DV among close friends were questioned.

The students studying in the 1st, 2nd, and 3rd years in both faculties were grouped as "pre-clinical", the students studying in the 4th, 5th, and 6th years in the medical faculty, and in the 4th year in the faculty of health sciences were grouped as "clinical" since both health sciences and medical students start their clinical practices in heir 4th year of studies. According to the sciences are upper" and "lower" according to the ocial classified as "upper" and "lower" according to the ocial classification of Boratav, design dam and sciences and the rest of the country was grouped as "east", and the rest of the country was grouped as "east", considering the geography and development of the regions (28).

Statistical analysis

The IBM SPSS 24.0 program was used for all the analyses. The numbers and percentages were given in descriptive analysis. In univariate analyses, parametric tests (Student's t-test or ANOVA) were used when the data were normally distributed or n>30 in each subgroup (29), and non-parametric tests (Mann Whitney-U or Kruskal Wallis tests) were used when data were not normally distributed or n<30 in any subgroup. Post-hoc tests were performed when the number of groups was 3 or more. P-value was considered <0.05 in all analyses.

Table	1. Sociodemoor	onhio Chorno	taristics of the	Participants (n=908)
i abie .	1: Sociodemogra	annic Unarac	teristics of the	Participants (n=908)

Table 1: Sociodemographic Characteristics of the Fartici	pants (n-908)	
Characteristics	n	%
Gender		
Woman	611	67.3
Man	297	32.7
Faculty		
Medicine	583	64.2
Health Sciences	325	35.8
 Midwifery 	69	7,6
 Nursing 	110	12,1
Social Work	66	7,3
Physiotherapy and Rehabilitation	80	8,8
Year of Education		
Pre-clinical	496	54.6
Clinical	412	45.4
Living (with)		
Friends	468	51.5
Parents	230	25.3
Alone	194	21.4
Spouse/Partner	16	1.8
To Have Been Migrated to Manisa		
Yes	775	85.4
No	133	14.6
Place of being brought up (Until 12 years old)	100	1
City center	499	54.9
District of city (rural)	409	45.1
Family Type	10)	15.1
Nuclear family	769	84.6
Large family (with relatives)	84	9.3
Fragmented family	55	6.1
Having sibling(s)	33	0.1
Yes	821	90.4
No	87	9.6
Having a sibling from opposite sex (n=821)	07	7.0
Yes	520	63.4
No	301	36.6
Mother	501	30.0
Alive	893	98.3
Dead	15	1.7
Father	15	1.,
Alive	882	97.1
Dead	26	2.9
Perceived Family Income	20	
Income less than expenses	188	20.7
Income equals to expenses	481	53.0
Income more than expenses	239	26.3
Smoking	23)	20.3
•		
Never used	607	66.8
Active user	204	22.5
Quitted	97	10.7
Drinking alcohol		
Never drank	343	37.8
Only tried	118	13.0
Occasionally drinking	397	43.7
Often drinking	50	5.5
Mental Health Problem Diagnosed by a Physician		
No	800	88.1
Yes	108	11.9
Regular Follow-up by a Physician (n=108)		
Yes	38	35.2
Rarely (when I need)	38	35.2
No	32	29.6
Ethical Committee Annuary		

Ethical Committee Approval

Approval for the study was obtained from the Ethics Committee of the university (Ref. number: 20.478.486/1177). In our study, participation was voluntary. Before filling out the questionnaires, we informed the participants about the purpose of the study, that the information they would provide would only be used for scientific purposes, and that the confidentiality of the information would be protected.

RESULTS

Totally 908 students were included in the analyses. The sociodemographic characteristics of the participants and descriptive data of the questions about dating and DV are presented in Tables 1&2. The median age of the participants was 21.0 [-IQR (25-75): 19.0-23.0] and only 4 participants were married.

The type of DV that was committed and was exposed the most was psychological DV in both current and past relationships. The type of action they took when they were exposed to DV, half of them stated that they reconciled, and the other half stated they ended the relationship (Table 3).

Women (p<0.001, p=0.036, p<0.001), students in the clinical education level (p=0.010, p<0.001, p=0.031), and those with a nuclear family (p=0.007, p=0.020, p=0.027) had a statistically significant lower attitude score toward DV in all scale scores. While the place of immigration, having siblings, and doing regular physical activity are variables that affected both the total and psychological subscale score; social class is the variable that affected both the total and physical subscale score (Table 4). It was observed that those who did not witness DV in their close circle of friends had bet-

 Table 2: Responses of Participants to Questions Regarding Dating Violence (n=908)

Variables	n	%
Witnessing Domestic Violence		
No	650	71.6
Yes	258	28.4
Exposure to Domestic Violence		
No	715	78.7
Yes	193	21.3
Hearing the Concept of Dating Violence		
Yes	576	63.4
No	332	36.6
Having a Dating Relationship So Far		
Yes	691	76.1
No	217	23.9
Committing Dating Violence in Past Relationships (n=691)		
No	568	82.2
Yes	123	17.8
Exposure to Dating Violence in Past Relationships (n=691)		
No	459	66.4
Yes	232	33.6
Having a Date Presently		
No	563	62.0
Yes	345	38.0
Committing Dating Violence in the Current Dating (n=345)		
No	322	93.3
Yes	23	6.7
Exposure to Dating Violence in Current Dating Relationship (n=345)		
No	310	89.9
Yes	35	10.1
Sharing with Family When Exposed to Dating Violence (n=35)		
No	29	82.9
Yes	6	17.1
Sharing with Someone Beside the Family When Subjected to Dating	Violence (n=	35)
Yes	28	80.0
No	7	20.0
Witnessing Dating Violence Among Friends		
Yes	536	59.0
No	372	41.0

Table 3. Type of Dating Violence Committed/Exposed and Distribution of Related Reactions*

	n	%
The type of dating violence committed by those who had a date so far (n=69	91)	
Psychological (Verbal. emotional)	120	17.4
Digital (Online or social media)	19	2.7
Physically	9	1.3
Sexual	7	1.0
Economic	2	0.3
The type of dating violence that those who had a date so far have been expo	sed to (n=691)	
Psychological (Verbal. emotional)	224	32.4
Digital (Online or social media)	60	8.7
Sexual	41	5.9
Physically	29	4.2
Economic	11	1.6
Types of reactions when exposed to dating violence (n=232)		
I was hurt but then I made up	118	50.9
I ended the relationship	114	49.1
I was unresponsive	48	20.7
I also committed him/her dating violence	39	16.8
I applied to official institutions for investigation.	1	0.4
Types of dating violence committed by those who are currently in a relation	ship (n=345)	
Psychological (Verbal. emotional)	23	6.7
Physically	2	0.6
Economic	2	0.6
Digital (Online or social media)	1	0.3
Sexual	0	0.0
The type of dating violence exposed by those who are currently in a relation	nship (n=345)	
Psychological (Verbal. emotional)	33	9.6
Physically	3	0.9
Economic	3	0.9
Digital (Online or social media)	2	0.6
Sexual	2	0.6

^{*}Multiple choice questions.

ter attitudes in the same scale scores. Witnessing domestic violence, being exposed to domestic violence, and being exposed to DV in past relationships were risk factors for more perpetration of DV in past relationships (p<0.001 for all). Exposure to domestic violence (p<0.001), exposure to DV in past relationships (p<0.001), and perpetrating DV in past relationships (p=0,004) were identified as risk factors for more perpetration of DV in the current relationships (Table 5&6).

DISCUSSION

The results of our study have salient findings. In their past relationships, 17.8% of the participants stated that they perpetrated DV, and 33.6% were exposed to it. The figures for current relationships were 6.7% and 10.1%, respectively. In one of the studies conducted only on female university students in Turkey, there are studies that found the prevalence of DV, the majority of which is psychological violence, to be 85.3% (30). The prevalence of DV seems to be lower compared to this and many other studies conducted in Turkey (8, 9, 10, 11, 12, 14). One of the other striking findings in our study that should also be noted is that one out of every three healthcare students has not heard of the concept of DV. In previous studies conducted in Turkey, it was shown that nursing and midwifery students did not have enough knowledge about DV (31). When this is taken into consideration with the high prevalence of domestic violence reported in our study, it is worrying that a public health problem is so little known, albeit as a concept, by future healthcare professionals, who need to act on any type of violence by seeing the signs, preventing it, and being an advocate.

According to multivariate analysis, it was observed statistically that individuals who perpetrated dating violence were older, they were exposed to domestic violence, witnessed violence among friends, and their attitude towards dating violence were worse. In women compared to men, as age increases, in divided families compared to nuclear and extended families, in those diagnosed with mental illness, in those exposed to domestic violence, in those who know the concept of dating violence and in those who witness violence among friends, exposure to dating violence were statistically higher (Table 6). As has been repeatedly shown in previous studies, those who perpetrated DV in both current and past relationships have been exposed to domestic violence and DV in their past relationships more (10, 31, 32, 33). In addition, those who perpetrated DV in their past relationships are also those who perpetrated DV in their current relationships more. However, while witnessing domestic violence was

memor oman		Mean – SD
am		22 2716 54
A		23.27 <u>+</u> 6.54 27.09 <u>+</u> 6.33
set Cocheris di	04)	3,82 (2,92-4,72)
sucher culty deficine \$83		8,340 (0,590)
selicine		< 0.001
athl Sciences 325 90,52,983 \$ 586,337 0,76,021-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,75 (0,221-1,217 0,125 (0,221-1,217 0,125 0,221 0,225 (0,221 0,225 0,221 0,225		*****
Communication Communicatio		24.44 <u>+</u> 6.38
set Cohemis d) where 1,166 (0,112) 3,230 (0,244)	20)	24.67 <u>+</u> 7.28 0,23 (-0,68-1,14)
walne		0,494 (0,034)
arr of Education ceclinical inical inical inical 406 30.58±8.94 11.37.5±4.19 11.26.7±3.94 11.26.		0.634
seclinical 496 30.58.8.9.4 13.75.4.19 1 1.75.4.10 1 1.		0.001
Common C		24.96 <u>+</u> 6.76
set Cohemics of		23.99+6.63
walue 0.010	96)	0,97 (0,09-1,84)
see of Residence hers		2,163 (0,144)
hers		0.031
me and Dif (#895 CI)		24.46.6.02
1.00 1.00		24.46 <u>+</u> 6.83 24.68 <u>+</u> 6.38
set (Chemis d) 1,827 (0,125) 2,189 (0,157) 2,281 (0,684,494) 3,256 (0,684,594) 3,260 (8,181) 3,256 (0,681,394) 3,256 (0,681,394) 3,256 (0,681,394) 3,256 (0,681,394) 3,256 (0,681,394) 3,258 (0,318) 3,254 (0,105) 3,255 (0,105) 3,255 (207	0,56 (-0,34-1,47)
search 0.072 0.027 set of Immigration 0.027 0.027 set of Immigration 0.027 0.027 set of 702 29.79±8.90 5.38±3.34 stan Diff. (%95 Cl) 2.81 (0.68±4.94) 0.35 (0.46±1, 0.46 (0.35 (0.46±1, 0.46 (1,229 (0,084)
see of Immigration est state		0.238
set s 702 29.79;8.90 53.84;3.34 store of the post horizon and Df. (%95 Cf) 2.81 (0.68-4.94) 0.35 (0.46-1.) store of being brought up (Until 12 years old) 1.82 (0.66-1.84) 0.30 (0.3		
st am Dff. (%95 Cf)		24.40 <u>+</u> 6.82
2,858 (0,318)		26.86 <u>+</u> 6.00
walue 0.010 0.393 vectors with the provided by center being brought up (Until 12 years old) years can oblig be provided by center the provided by center than one analysis, a significant difference (assessed by Bonferroni correction) was found by center than one analysis, a significant difference (assessed by Bonferroni correction) was found by center than one analysis, a significant difference (assessed by Bonferroni correction) was found by the provided by center than one center than one center than one center than one analysis, a significant difference (assessed by Bonferroni correction) was found by the provided by center than one center the provided by center than one c		2,45 (0,82-4,08)
see of being brought up (Until 12 years old) ty center strict of city (rural) 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.60+9.49 5.53+3.77 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 409 30.72+1.78 40.72+1.7		2,954 (0,363)
ye center 499 29.34±8.03 5.18±2.97		0.003
strict of city (rural) 409 30.60-9.49 5.53±3.77 care map If, (%95 Cf) 1.20 (0.121-2.40) 0.45 (-0.00-0.2 cst (Cohem's d) 2.171 (0.145) 1.657 (0.134) volue 0.030 0.051 cst (Cohem's d) 2.171 (0.145) 1.657 (0.134) volue 0.030 0.051 cst (Cohem's d) 2.171 (0.145) 1.657 (0.134) volue 0.030 0.051 cst (Cohem's d) 0.031 cst (Cohem's d) 0.031 cst (2.185 (0.185 cst (2.185		24.15+6.40
		24.15 <u>+</u> 6.40 24.97 <u>+</u> 7.06
2,171 (0,145) 1,657 (0,134) 2,171 (0,145) 1,657 (0,134) 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,055 2,0030 0,0030 0,005 0,0007 0,000	90)	24.9/±/.06 0,81 (-0,64-1,69)
walue 0.030 0.051 willy Type* uclear family reg family (with relatives) 32 32.222.10.61 (29.92.34.53) 6.172.48.14 (5.0) (2.0)		1,820 (0,121)
mily Type* sclear family spe family (with relatives) spe family (with relatives) spe family (with relatives) spe family (with relatives) specific (2) subset (3) subset (2) subset (3) subset (2) subset (3) subs		0.069
Section Sect		
rage family (with relatives) 32 32.22±10.61 (29.92-34.53) 6.17±4.46 (25.88) ment of family 40 31.7±4.11.78 (28.56-34.93) 6.11±4.18 (44.85 (26.54 (26.		24.27±6.35 (23,82-24,72)
Rest (7²) 4,951 (0,011) 3,910 (0,009)	21-7,15)	26.04 <u>+</u> 8.00 (24,31-27,79)
Rest (7²) 4,951 (0,011) 3,910 (0,009)		25.72+8.89 (23,32-28,13)
secording to the post hoc analysis, no significant difference was found between groups. witing sibling(s) s		3,612 (0,008)
se 820 30.12±8.88 5.42±3.41 88 27.90±6.92 5.00±2.83 an Dif. (%95 CI) 88 27.90±6.92 5.00±2.83 an Dif. (%95 CI) 2.21 (0.28±4.14) 0.43 (-0.32±1, 1.27 (0.127) alue 0.0025 0.250 mber of Siblings ne 88 28.03±6.98 (26.56-29.51) 5.01±2.81 (4.46) ne 88 28.03±6.98 (26.56-29.51) 5.01±2.81 (4.46) ne 490 29.77±8.88 (29.01-30.53) 5.24±3.09 (4.86) ne 490 29.37±7.80 5.09±2.92 net of correction to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was found 0.041). inial Class per social class an Dif. (%95 CI) 1.37 (0.14±2.61) 0.76 (0.28±2.92) an Dif. (%95 CI) 2.188 (0.158) 3.117 (0.227) ultie 0.029 0.022 re-valuation of health ty bad/Bad/ 209 30.72±10.16 5.96±4.14 tither bad nor good od/Very good 699 29.66±8.25 5.21–3.07 an Dif. (%95 CI) 1.06 (-0.29-2.41) 0.75 (0.14±1.3) at (Cohemis d) 1.380 (0.122) 2.412 (0.223) abuhe 0.169 0.106 an Dif. (%95 CI) 2.07 (0.61-3.52) 0.54 (-010-1.1) at (Cohemis d) 1.380 (0.122) 2.412 (0.223) abuhe 0.005 0.005 and Dif. (%95 CI) 2.07 (0.61-3.52) 0.54 (-010-1.1) at (Cohemis d) 1.39 (0.124) 0.159 (0.005) and Dif. (%95 CI) 1.08 (-0.29-2.41) 0.75 (0.14±3.4) at (Cohemis d) 1.33 (0.14±2.79) 0.51 (0.05-0.9) and Dif. (%95 CI) 1.08 (0.05-0.9) and Dif. (%95 CI) 1.182 (0.087) 1.090 (0.095) and Dif. (%95 CI) 1.08 (0.05-0.9) 0.030 breather on the current Dating Relationship (0.345) and Dif. (%95 CI) 1.08 (0.25-2.41) 0.04 (-04-0.25-2.41) 0.04 (-04-0.25-2.41) 0.04 (-04-0.25-2.41) 0.04 (-04-0.25-2.41) 0.04 (-04-0.25-2.41		0.027
8 8 820 30.12+8.88 5.42±3.41 am Dif. (%95 CI) 5.00±2.83 88 27.90±6.92 5.00±2.83 am Dif. (%95 CI) 2.21 (0.28±4.14) 0.43 (-0.32±1.12) st (Cohem.s d) 2.252 (0.254) 1.127 (0.127) alue 0.025 0.260 mber of Siblings ne 8 8 28.03±6.98 (26,65€-29,51) 5.01±2.81 (4.45 ne 490 29.77±8.58 (29,01=30,53) 5.24±3.09 (4.45) ne 490 29.77±8.58 (29,01=30,53) 5.24±3.09 (4.45) ne 490 29.77±8.58 (29,01=30,53) 5.24±3.09 (4.45) ne 490 29.77±8.58 (29,01=30,53) 5.24±3.09 (4.40,005) adue 0.041). stal Class per social class 0.042 0.085 ccoording to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was found 0,041). stal Class per social class 556 29.37±7.80 5.09±2.92 wer social class 346 30.75±9.99 5.85±3.92 at Dif. (%95 CI) 1.37 (0.14±2.61) 0.76 (0.28±1.2) st (Cohem.s d) 2.187 (0.158) 3.117 (0.227) alue 0.029 0.002 Fevaluation of health ry bad/Bad/ 209 30.72±10.16 5.96±4.14 tither bad nor good od/Very good 699 29.66±8.25 5.21=3.07 and Dif. (%95 CI) 1.06 (-0.29±41) 0.75 (0.14±1.3) st (Cohem.s d) 1.380 (0.122) 2.412 (0.223) adue 0.169 0.169 uslar Physicial Activity as 169 31.59±9.16 5.82±3.92 am Dif. (%95 CI) 1.33 (-0.14±2.79) 0.51 (0.164). st (Cohem.s d) 1.33 (-0.14±2.79) 0.51 (0.160). st (Cohem.s d) 1.33 (-0.14±2.79) 0.54 (-0.10±1) st (Cohem.s d) 1.790 (0.152) 2.185 (0.162) at (2.260 0.095) mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 s an Dif. (%95 CI) 1.33 (-0.14±2.79) 0.51 (0.066) at (2.060 0.05 0.095) mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 s an Dif. (%95 CI) 1.33 (-0.14±2.79) 0.51 (0.060) st (Cohem.s d) 1.790 (0.152) 2.185 (0.152) at (2.060 0.05 0.095) st (Cohem.s d) 1.182 (0.087) 1.009 (0.069) at (Cohem.s d)		
an Dif. (%95 CI)		
an Dif. (%95 CI)		24.69+6.80
am Dif. (%95 CI) talue 0.025 0.260 mber of Siblings ne 88 28.03±6.98 (26,56-29,51) 5.01±2.81 (4,4) 2.252 (0,254) 1.127 (0,127) alue 0.025 0.260 mber of Siblings ne 88 28.03±6.98 (26,56-29,51) 5.01±2.81 (4,4) ce 490 29.77±8.88 (29,01-30,53) 5.24±3.09 (4,5) set (2³) 31.78 (0,007) 2.474 (0,005) alue 0.042 0.085 ccording to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0,041). tial Class per social class 556 29.37±7.80 5.09±2.92 wer social class per social class 346 30.75±9.99 5.85±3.92 an Dif. (%95 CI) 1,37 (0,14-2,61) 4,78 (0,14-2,61) 5.96±4.14 tither bad nor good dolvery good 699 29.66±8.25 4.218 (0,129) 4.218 (0,29-2,41) 5.96±4.14 tither bad nor good dolvery good an Dif. (%95 CI) 1,06 (-0,29-2,41) 5.96±4.14 tither bad nor good and Dif. (%95 CI) 1,38 (0,122) 2,412 (0,223) alue 0.169 20.169 alual Physical Activity 739 29.52±8.60 5.28±3.22 san Dif. (%95 CI) 2,07 (0,61-3,52) 3,04 (-010-1,1 3,01 (-14-2,79) 5.16 (-0,60-2) 1,075 (0,14-3,35) 5.24±3.04 an Dif. (%95 CI) 1,076 (0,129-2,41) 0,075 (0,14-1,3 st (Cohemis d) 1,380 (0,122) 2,412 (0,223) alue 0.005 0.005 no 106 st (Cohemis d) 1,790 (0,152) 2,185 (0,152) alue 0.005 0.095 mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 st (Cohemis d) 1,790 (0,152) 2,185 (0,152) alue 0.075 0.030 mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 st (Cohemis d) 1,190 (0,152) 2,185 (0,152) 2,185 (0,152) 2,185 (0,152) 2,185 (0,152) 2,185 (0,152) 2,185 (0,152) 3,186 (0,20-2) 3,178 (0,00-2) 3,178 (0,00-2) 3,178 (0,0-2) 3,178 (0,0-2) 3,178 (0,00-2) 3,178 (0		22.90 <u>+</u> 5.56
rather mber of Siblings me		1,79 (0,30-3,27)
mber of Siblings ne		2,364 (0,267)
ne		0.018
re than one 330 30.61±9.30 (29.61-31,62) 5.24±3.09 (45 set (ℓ²²) 30.61±9.30 (29.61-31,62) 5.70±3.83 (5.24±3.09 (45 set (ℓ²²) 31,78 (0.007) 2,474 (0.005) alue coording to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.041). inclined the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.041). inclined the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.041). inclined the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.0011. inclined the post of the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.0011. inclined the post of the post hoc analysis, a significant difference (assessed by Bonferroni correction) was founc 0.0011. inclined the post of the post	41.5.613	22 02 5 62 62 62 62 63
see than one 330 30.61±0.30 (29,61-31,62) 5.70±3.83 (5.2 at (2°) 2.3178 (0,007) 2,474 (0,005) at (0,007) 2,474 (0,005) 2,474 (23.02±5.63 (21,83-24,22)
Sear (2) 3,178 (0,007) 2,474 (0,005)		24.53±6.62 (23,94-25,12)
able cocording to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was found 0,041). 1al Class 556 29.37±7.80 5.09±2.92 wer social class 346 30.75±9.99 5.85±3.92 an Dif (%95 CI) 1,37 (0,14-2.61) 0,76 (0,28+1.2) st (Cohen st d) 2,187 (0,158) 3,117 (0,227) alue 0.029 0.002 e-evaluation of health ry bad/Bad/ 209 30.72±10.16 5.96±4.14 ther bad nor good 699 29.66±8.25 5.21-3.07 alue 0.169 0.16 st (Cohen st d) 1,380 (0,122) 2,412 (0,223) alue 0.169 0.016 gular Physical Activity 39 29.52±8.60 5.28±3.22 st (Cohen st d) 2,78 (0,61-3.52) 0,54 (0,10-1.1) st (Cohen st d) 2,784 (0,237) 1,676 (0,16-1.3) alue 0.005 0.095 alue 0.005 0.005 alue 0.005 alue 0.005 alue 0.005 0.005 alue 0.005 0.005 alue 0.005 alue 0.005		24.91±7.06 (24,15-25,68) 2,760 (0,006)
Coording to the post hoc analysis, a significant difference (assessed by Bonferroni correction) was found O,041 D,041 D,041 D,041 D,041 D,041 D,041 D,042		0.064
## 19.041). ## 19.041). ## 19.041). ## 19.041). ## 19.041). ## 19.041). ## 19.041]. ## 19.042]. ## 1	d between no s	
rial Class per social class per social class wer social class an Dif, (%95 CI) st (Cohemils d) an Dif, (%95 CI) st (Cohemils d) an Dif, (%95 CI) st (Cohemils d) an Dif, (%95 CI) an Dif, (%95 C	a cermeen no :	tonig and more than one ston
wer social class 346 30,75±9.99 5,85±3.92 and Dif. (%95 CI) 1,37 (0,14-2,61) 0,76 (0,28-1,2 st (Cohemis. d) 2,187 (0,158) 3,117 (0,227) alue		
am Dif. (%95 CI) 1,37 (0,14-2,61) 2,187 (0,158) 3,117 (0,227) alue 0,029 0,002 Fevaluation of health ry bad/Bad/ 1 209 3,0.72±10.16 5,96±4.14 1ther bad nor good 0d/Very good 0 99 2,66±8.25 5,21-3.07 am Dif. (%95 CI) 1,06 (-0,29-2,41) 0,75 (0,14-1,3 1,380 (0,122) 2,412 (0,223) alue 0,169 0,		24.28 <u>+</u> 6.27
st (Cohem s d) Section		24.90 <u>+</u> 7.36
alue 0.029 0.002 Fevaluation of health ry bad/Bad/ 209 30.72±10.16 5.96±4.14 tither bad nor good of Very good an Dif. (%95 CI) 1.06 (-0.29-2.41) 0.75 (0.14+1.3 st.) od Very good an Dif. (%95 CI) 1.360 (0.122) 2.412 (0.223) alue 0.169 0.016 gular Physical Activity 739 29.52±8.60 5.28±3.22 san Dif. (%95 CI) 2.07 (0.61-3.52) 0.54 (-010-1.1 st.) san Dif. (%95 CI) 2.07 (0.61-3.52) 0.54 (-010-1.1 st.) st (CohemUs d) 0.005 0.095 mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 st (CohemUs d) 1.790 (0.152) 0.51 (0.05-0.9 st.) st (CohemUs d) 1.790 (0.152) 0.218 (0.05-0.9 st.) st (CohemUs d) 1.782 (0.087)		0,61 (-0,32-1,55)
Fevaluation of health		1,296 (0,092)
ry bad/Bad		0.195
ither bad nor good od/very good of 99 29.66±8.25 5.21-3.07 an Dif. (%95 CI) 1.06 (-0.29-2.41) 0.75 (0.14-1.3 st (Cohen Lis d) 1.380 (0.122) 2.412 (0.223) alue 0.169 0.		24.76 <u>+</u> 7.44
odVery good 699 29.66±8.25 5.21-3.07 and Dif. (%95 CI) 1.06 (-0.29-2.41) 0.75 (0.14-1.3 st COhemis d) 1.08 (-0.29-2.41) 0.75 (0.14-1.3 st COhemis d) 1.08 (-0.29-2.41) 0.75 (0.14-1.3 st COhemis d) 0.169 0.016 0		24.7017.44
am Dif. (%95 CI) st (Cohem\(\text{S}\) d) aliable (2,023) aliable (3,15) aliable (4,15)		24.45-6.48
st (Cohem□s d) alue 0.169 0.166 0.169 0.166 0.169 0.166	36)	0,31 (-0,81-1,44)
where the properties of t		0,594 (0,047)
gular Physical Activity 8 169 31.59±9.16 5.8±3.22 8 169 31.59±9.16 5.8±3.92 8 169 31.59±9.16 5.8±3.92 8 109 2.07 (0.61-3.52) 0.54 (-010-1, 1 1.676 (0.162) 8 100 0.005 0.005 8 100 0.005 0.005 8 100 0.005 0.005 8 108 28.74±0.96 4 4.93±2.07 8 108 28.74±0.96 4 4.93±2.07 8 108 28.74±0.96 0.152 8 108 28.74±0.96 0.152 8 108 28.74±0.96 0.152 8 108 28.74±0.96 0.152 8 108 28.74±0.96 1.152 8 108 28.74±0.96 1.152 8 108 28.74±0.96 1.152 8 108 28.74±0.96 1.152 8 108 28.74±0.96 1.152 8 108 28.74±0.96 1.152 8 109 1.182 (0.0152) 2.185 (0.152) 8 109 1.182 (0.0152) 2.185 (0.152) 8 109 1.182 (0.052) 0.030 8 109 1.182 (0.097) 0.030 8 109 1.182 (0.097) 1.009 (0.069) 8 109 1.182 (0.087) 1.009 (0.069) 8 109 1.009 1.009 1.009 (0.072) 8 100 1.009 1.00		0.552
Table Tab		
s		24.76 <u>+</u> 6.60
am Dif, (%95 CI) st (Cohen		24.24 <u>+</u> 6.72
st (Cohen□s d) 2,784 (0,237) 1,676 (0,162) sheet mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 s 108 28,74±6.96 4.93±2.07 san Dif. (%95 CI) 1,33 (-0,14±2,79) 0,51 (0,05-0,9 st (Cohen□s d) 1,790 (0,152) 2,185 (0,152) sheet 1,790 (0,152) 2,185 (0,152) sheet 1,790 (0,152) 2,185 (0,152) sheet 1,790 (0,152) 3,185 (0,152) sheet 1,790 (0,124) 3,185 (0,152) sheet 1,890 (0,124) 3,185 (0,152) s		1,52 (0,40-2,64)
mtal Health Problem Diagnosed by Physician 800 30.06±8.94 5.44±3.49 s 8100 28.74±6.96 4.93±2.07 8108 28.74±6.96 4.93±2.07 8108 28.74±6.96 4.93±2.07 811,33 (-0.14±2.79) 0.51 (0.05-0.9 s 812,000 0.075 0.030 812,000 0.030 812,000 0.		2,669 (0,228)
800 30.06±8.94 5.44±3.49 s 108 28.74±6.96 4.93±2.07 0.51 (0.05±0.99 1.33 (-0.14±2.79) 0.51 (0.05±0.99 1.790 (0.152) 2.185 (0.152) alue 0.075 0.030 tnessing Domestic Violence 5.25 30.45±8.61 5.22±2.94 an Dif. (%95 CI) 3.045±8.61 5.22±2.94 0.76 (-0.05±0.02.02) 0.23 (-0.22±0.03 0.152 (Cohenilis d) 1.182 (0.087) 1.009 (0.069) alue 0.238 0.350 1.182 (0.087) 1.009 (0.069) alue 0.238 0.350 1.009 (0.059 0.		0.008
s an Dif, (%95 CI) 1,33 (-0,14-2,79) 0,51 (0,05-0,9) st (Cohen □s d) 1,790 (0,152) 2,185 (0,152) ather tressing Domestic Violence		24 (2) (02
xan Dif. (%95 CI) 1,33 (G,14-2,79) 0,51 (0,05-0,9 at (0,06-1) 0,075 0,030 thessing Domestic Violence \$ (50		24.62 <u>+</u> 6.83
st (Cohen s d) 1,790 (0,152) 2,185 (0,152) alue 0.075 0.030 thessing Domestic Violence 650 29.69±8.78 5.45±3.51 s 258 30.45±8.61 5.22±2.94 an Dif. (%95 CI) 258 30.45±8.61 5.22±2.94 an Dif. (%95 CI) 11,182 (0,087) 1,009 (0,069) alue 0.238 0.350 ving a Dating Relationship So Far 8 217 29.08±8.51 5.35±3.18 an Dif. (%95 CI) 1,08 (-0,25-2,41) 0,04 (-0,47-0,47-0,47-0,47-0,47-0,47-0,47-0,47	17)	23.80±5.77
value 0.075 0.030 tnessing Domestic Violence 650 29.69±8.78 5.45±3.51 s 258 30.45±8.61 5.22±2.94 o, 76 (-0,50-2,02) 0.23 (-0,22-0,02) 0.23 (-0,22-0,02) st (Cohen □s d) 1,182 (0,087) 1,009 (0,069) ving a Dating Relationship So Far 8 691 30.16±8.79 5.39±3.42 s 217 29.08±8.51 5.35±3.18 3.35±3.18 an Dif. (%95 CI) 1,08 (-0,25-2,41) 0,04 (-0,47-0,±4) st (Cohen□s d) 1,590 (0,124) 0,159 (0,012) alue 0.112 0.874 mmitting Dating Violence in the Current Dating Relationship (n=345) 322 29.85±8.28 5.28±3.23 s 23 37.43±9.32 6.73±4.43 6.73±4.43 s 23 37.43±9.32 6.73±4.43 6.73±4.93 s 201 1996.0 (-3,698) 0,199 2902.5 (-2,009 alue <0.001		0,81 (-0,38-2,01)
thessing Domestic Violence 650 29.69±8.78 5.45±3.51 8 258 30.45±8.61 5.22±2.94 an Dif. (%95 CI) 0,76 (-0,50-2,02) 0,23 (-0,22-0,0) alue 0,238 0,350 alue 0,238 0,350 alue 0,238 0,350 sing a Dating Relationship So Far 8 691 30.16±8.79 5.39±3.42 217 29.08±8.71 5.35±3.18 an Dif. (%95 CI) 1,08 (-0,25±2,41) 0,04 (-0,47-0,±3) at Cohen s d) 1,590 (0,124) 0,159 (0,012) at (Cohen s d) 1,590 (0,124) 0,159 (0,012) at (Cohen s d) 1,590 (0,124) 0,159 (0,012) at (20 29.85±8.28 5.28±3.23 s 23 37.43±9.32 6.73±4.23 s 23 37.43±9.32 6.73±4.23 s 240 38.43±0.22 (24.722) 170,70 (205,21) statistictics (Z score) r 1996.0 (-3,698) 0,199 2962.5 (-2,009) at (20 29.87±8.33 5.30±3.28		1,345 (0,121) 0.181
\$ 258 30.45±3.51 \$ \$ 258 30.45±8.61 \$ \$ 252±2.94 \$ \$ an Dif. (%95 CI) \$ 0.76 (-0.50-2.02) \$ \$ 0.23 (-0.22-0.0 \$ \$ 0.238 \$ \$ 0.350 \$ \$ 0.360 \$ \$ 0.350 \$ \$ 0.360 \$ \$ 0.		v.101
S 258 30.45±8.61 5.22±9.94 an Dif. (%95 CI) 0,76 (-0.50-2.02) 0.23 (0.22-0.04 an Dif. (%95 CI) 1,182 (0.087) 1,009 (0.069) alue 0.238 0.350 alue 0.238 0.350 3.30 (6+8.79 5.39±3.42 5.39±3.42 5.39±3.42 5.39±3.42 5.39±3.42 5.39±3.42 5.39±3.42 1,08 (-0.25-2.41) 0,04 (-0.47-0.24 1,08 (-0.25-2.41) 0,04 (-0.47-0.24 1,08 (-0.25-2.41) 0,159 (0.012) 1,012 0.874 mmitting Dating Violence in the Current Dating Relationship (n=345) 5.22±0.24 5.22±0.24 5.23±0.25 5.24±0.23 5.25±0.24 5.25±0.25 6.73±4.43 5.26±0.25 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43 5.26±0.26 6.73±4.43		24.24 <u>+</u> 6.62
an Dif. (%95 CI) 0,76 (-0,50-2,02) 0,23 (-0,22-0,4 1.182 (0,087) 1,1099 (0,069) 0.238 0.350 0.		24.24 <u>+</u> 6.62 25.23+6.89
st (Cohen □s d) al (C	.68)	0,99 (0,02-1,96)
alue 0.238 0.350 ving a Dating Relationship So Far 691 30.16±8.79 5.39±3.42 ss 217 29.08±8.51 5.35±3.42 san Dif. (%95 CI) 1,08 (-0.25±2.41) 0,04 (-0.47±0.25 st (Cohen s d) 1,590 (0,124) 0,159 (0,012) st (Cohen is d) 0,112 0,874 mmitting Dating Violence in the Current Dating Relationship (n=345) 322 29.85±8.28 5.28±3.23 scan Rank - No(Yes) 367.70 (247,22) 170,70 (205,21) statistics (Z score) r 1996.0 (-3,698) 0,199 2962.5 (-2,009 alue -0.001 0,045 posure to Dating Violence in Current Dating Relationship (n=345) 5.30±3.28		2,008 (0,148)
wing a Dating Relationship So Far 691 30.16±8.79 5.39±3.42 217 29.08±8.51 5.35±3.18 an $Dif.$ (%95 CI) 1,08 (~0.25±2.41) 0,04 (~0.47±0.45 date 0.112 0.874 minitting Dating Violence in the Current Dating Relationship (n=345) 22 29.85±8.28 5.28±3.23 23 37.43±9.32 6.73±4.43 23 37.43±9.32 6.73±4.43 23 37.43±9.32 6.73±4.43 23 39.60 (247.22) 170,70 (205.26 23 20.000 0.001 0.045 possure to Dating Violence in Current Dating Relationship (n=345) 23 37.43±9.32 6.73±4.43 23 37.43±9.32 6.73±4.43 23 37.43±9.32 6.73±4.43 23 37.43±9.32 6.73±4.43 23 37.43±9.33 5.30±3.28 23 37.43±9.33 5.30±3.28		0.045
an Dif. (%95 CI) 217 29.08 ± 8.51 5.35 ± 3.18 0.04 (-0,47-0,4) 0.159 (0,012) 1.590 (0,124) 0.159 (0,012) 2.0874 mmitting Dating Violence in the Current Dating Relationship (n=345) 23 37.43 ± 9.32 6.73 ± 4.43 23 37.43 ± 9.32 6.73 ± 4.43 24 167,70 (247,22) 170,70 (205.20 statistics (Z score) Z 1996.0 (-3,698) 0,199 2902.5 (-2,009 alue 0.001 0.045) 310 29.87 ± 8.33 5.30 ± 3.28		
$\begin{array}{c} \text{van } Dif. \ (\%95 \ CI) \\ \text{to } I.08 \ (-0.25 \cdot 2.41) \\ \text{st } (Cohen \square s. d) \\ \text{alue} \\ \text{lo.} 112 \\ \text{lo.} 187 \\ \text{do } I.590 \ (0.124) \\ \text{lo.} 112 \\ \text{lo.} 187 \\ \text{lo.} 112 \\ \text{lo.} 112$		24.77 <u>+</u> 6.79
st (Cohen s d) 1,590 (0,124) 0,159 (0,012) alue 0.112 0,874 miniting Dating Violence in the Current Dating Relationship (n=345) s 23 37.43+9.32 6,73+4.49 aran Rank - No(Yes) 167,70 (247,22) 170,70 (205,24 statistics (Z score) r 1996.0 (-3,698) 0,199 2962.5 (-2,009 alue 0.001 0,045 posure to Dating Violence in Current Dating Relationship (n=345) 310 29.87±8.33 5.30±3.28	55)	23.73±6.40
value 0.112 0.874 mmitting Dating Violence in the Current Dating Relationship (n=345) 5.28±3.23 322 29.85±8.28 5.28±3.23 23 37.43±9.32 67.3±4.43 24 167,70 (247,22) 170,70 (205,20 25 1996.0 (-3.698) 0,199 2962.5 (-2,009 26 20.001 0,045 20 29.87±8.33 5.30±3.28		1,04 (0,01-2,06)
mmitting Dating Violence in the Current Dating Relationship (n=345) 322 29.85 \pm 8.28 5.28 \pm 3.23 s 23 37.43 \pm 9.32 6.73 \pm 4.43 san Rank - No(Yes) 167,70 (247,22) 170,70 (205,2) statistites (Z score) r 1996,0 (-3,698) 0,199 2962,5 (-2,009 alue <0.001		1,990 (0,155)
s 22 29.85±8.28 5.28±3.23 37.43±9.32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 32 6.73±4.43 6.75±6.24 6.75±6.2		0.047
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
van Rank - No (Yes) 167.70 (247.22) 170.70 (205.24) $van Rank - No (Yes)$ 1996.0 (-3.698) $(-3.$		24.57 <u>+</u> 6.63
statistics (Z score) r 1996,0 (-3,698) 0,199 2962,5 (-2,009 alue <0.001 0,045 posure to Dating Violence in Current Dating Relationship (n=345) 310 29.87±8.33 5.30±3.28	0)	30.69±6.98
alue <0.001		167,55 (249,28)
posure to Dating Violence in Current Dating Relationship (n=345) 310 29.87±8.33 5.30±3.28	9) 0,108	1948,5 (-3,801) 0,205
310 29.87 <u>+</u> 8.33 5.30 <u>+</u> 3.28		-<0.001
		24.54 <u>+</u> 6.64
s 35 34.65±9.39 6.00±3.81		24.54±6.64 28.65±7.37
an Dif. (%95 CI) 167,67 / 220,19 171,39 / 187,2	26	167,39 / 222,69
statistics (Z score) r 3773,5 (-2,956) 0,159 4926,0 (-1,118		3686,0 (-3,113) 0,168
alue 0,003 0,263	<u> </u>	0.002
tnessing Dating Violence in the Circle of Friends		
s 536 29.36±8.67 5.26±3.19		24.09 <u>+</u> 6.75
372 30.69±8.78 5.56±3.58	75)	25.13±6.61
an Dif. (%95 CI) 1,34 (0,18-2,49) 0,30 (-0,14-0,7 st (Cohen □ s d) 2,272 (0,153) 1,328 (0,090)	13)	1,04 (0,15-1,92)
st (Cohen \Box s d) 2,272 (0,153) 1,328 (0,090) alue 0.023 0.184		2,290 (0,155) 0.022

p-value 0.023 0.184 0.022

*Assessed with Mann-Whitney U test.

With whom lived, migration status to Manisa, having a sibling of the opposite gender, whether the father is alive or not, pereived family income, health insurance status, smoking and alcohol use, healthy and balanced diet, BMI, perceived assessment of physical appearance, and exposure to domestic violence were statistically not significant. The age of first dating relationship, the duration time of the longest dating relationship, committing dating violence in past relationships, exposure to dating violence in past relationships, having a date presently, and the duration of the current dating relationship were statistically not significant.

found to be -important for perpetrating DV in past relationships, this relationship was not observed in current relationships. Also, the attitudes of those who witnessed domestic violence toward psychological DV were worse. Since no difference was observed in the attitude for the physical violence subscale, it might be indicating that individuals who have witnessed domestic violence can be one of the target populations for therapy and interventions, as a starting point for behavioral correction of DV.

Like in many studies the most common type of violence exposed was psychological DV (11,12,33) and the fact that only one of the 2.12 people who answered the relevant question has appned to official authorities most libely indicating that people do not know what to do or have a low belief that they can get the help they need when they seek help. This emphysizes that official and non-governmental organizations should increase their effectiveness in society. As in many studies, it was determined that men's attitudes toward DV were more accepting than women's (11, 18, 34). It can be and that men have more accepting attitudes to vards DV in line with the traditional structure. Turkish society and feminist theory, where the patnarchal order determines gender rolls. Recent studies in Turkey also show that general mems still influence Turkish society and bose were accept traditional gender norm roles are a ore likely to accept DV (34). The necessity for women to have equal roles with men in all areas of social life and eliminating discrimination based on gender stand out as important steps in reducing DV (36,37).

In our study, the students studying at the clinical level had statistically significant lower attitude scores than the students studying at the preclinical levels in all scale scores. These findings cannot be explained by the fact that the students studying at the clinical level were older than the students

Variables	Non-dating violence		Dating violence p-value		p-value	Non-exposure to dating violence		Exposure to dating violence		p-value
	n	%	n	%		n	%	n	%	
Age		,,,	••	, 0	< 0.001	•	,,,		, ,	<0.001
Younger than 21 years old	340	85.9	56	14.1	-0,001	289	73.0	107	27.0	-0,001
22 years old or more	222	75.3	73	24.7		166	56.3	129	43.7	
x ² - cOR (%95 CI)	12,521 - 2,00 (1,36-2,94)	15.5	15	24.7			50.5	129	43.7	
	12,321 - 2,00 (1,36-2,94)				0,010	20,987 - 2,10 (1,52-2,89)				<0.001
Gender	254	70.5	97	21.5	0,010	272	(0.5	170	20.5	<0,001
Female	354	78.5		21.5		273		178	39.5	
Male	208	86.7	32	13.3		182	75.8	58	24.2	
x ² - cOR (%95 CI)	6,894 - 1,78 (1,15-2,75)					16,308 - 2,05 (1,44-2,90)				
School Type					0,024					0,003
Medical School	359	78.9	96	21.1		282	62.0		38.0	
School of Health Sciences	203	86.0	33	14.0		173	73.3	63	26.7	
x ² - cOR (%95 CI)	5,182 - 1,64 (1,07-2,53)					8,866 - 1,69 (1,19-2,38)				
School Year (Phase)	-				<0,001					<0,001
Preclinical	306	86.4	48	13.6		261	73.7	93	26.3	
Clinical	256	76.0	81	24.0		194	57.6		42.4	
x ² - cOR (%95 CI)	12,480 - 2,02(1,36-2,99)					20,053 - 2,07 (1,50-2,85)				
Family Structure	/ / / / / / / / / / / / / / / / / / / /				0,009	, , , , , , , , =, , , ,				0,009
Nuclear	473	81.3	109	18.7	3,003	386	66.3	196	33.7	5,005
Extended	56	91.8	5	8.2		46	75.4	15	24.6	
Fragmented	33	68.8	15	31.3		23	47.9		52.1	
x ²	9,411	00.0	13	31.3		9.401	47.9	23	32.1	
	9,411				<0.001	9,401				0.004
Smoking	354	05.0	50		<0,001	200	70.1	100	20.0	0,004
Non-user	354	85.9	58	14.1		289	70.1		29.9	
Active or previous user	208	74.6	71	25.4		166	59.5	113	40.5	
x ² - cOR (%95 CI)	14,165 - 2,08(1,41-3,07)					8,386 - 1,60 (1,16-2,20)				
Consuming Alcohol					0,013					<0,001
Irregular/non consumer	241	85.8	40	14.2		207	73.7		26.3	
Regular consumer	321	78.3	89	21.7		248	60.5	162	39.5	
x ² - cOR (%95 CI)	6,132 - 1,67(1,11-2,51)					12,874 - 1,83 (1,31-2,54)				
Adequate and Balanced Nutrition					0,040					
No	281	78.3	78	21.7						
Yes	281	84.6	51	15.4						
x ² - cOR (%95 CI)	4,603 - 1,53 (1,03-2,26)									
Mental Illness Diagnosis	.,, (-, =,=.)				0,002					<0,001
No	501	83.2	101	16.8	0,002	418	69.4	184	30.6	-0,001
Yes	61	68.5	28	31.5		37	41.6		58.4	
x ² - cOR (%95 CI)	11,010 - 2,28 (1,39-3,74)	00.5	20	51.5		26,765 - 3,19 (2,02-5,04)	41.0	32	50.4	
Witnessing Domestic Violence	11,010 - 2,20 (1,37-3,74)				<0.001	20,703 - 3,17 (2,02-3,04)				<0.001
No	424	87.8	59	12.2	~0,001	356	73.7	127	26.3	~0,001
						356 99				
Yes	138	66.3	70	33.7		**	47.6	109	52.4	
x ² - cOR (%95 CI)	44,010 - 3,64 (2,45-5,42)					44,073 - 3,09 (2,20-4,33)				
Experiencing Domestic Violence					<0,001	***				<0,001
No	457	86.1	74	13.9		384	72.3	147	27.7	
x ² - cOR (%95 CI)	44,010 - 3,64 (2,45-5,42)					44,073 - 3,09 (2,20-4,33)				
Experiencing Domestic Violence					<0,001					<0,001
No	457	86.1	74	13.9		384	72.3		27.7	
Yes	105	65.6	55	34.4		71	44.4	89	55.6	
x ² - cOR (%95 CI)	33,829 - 3,23(2,15-4,87)					42,684 - 3,28 (2,27-4,72)				
					<0,001					< 0.001
Knowledge of Dating Violence Conc	ept									
Knowledge of Dating Violence Conce No	211	89.4	25	10.6		192	81.4	44	18.6	
		89.4 77.1	25 104	10.6 22.9		192 263	81.4 57.8		18.6 42.2	
No Yes	211 351					263				
No Yes x ² - cOR (%95 CI)	211 351 15,393 - 2,50 (1,56-4,00)									<0.001
No Yes x² - cOR (%95 CI) Witnessing Dating Violence Among I	211 351 15,393 - 2,50 (1,56-4,00) Friends	77.1	104	22.9		263 38,335 - 3,20 (2,20-4,64)	57.8	192	42.2	<0,001
No Yes x ² - cOR (%95 CI)	211 351 15,393 - 2,50 (1,56-4,00)				<0,001	263	57.8 87.4	192		<0,001

Turkish J Clinical Psychiatry 2025;28:

Table 6. Multivariate Analysis of Affecting Factors of the Perpetration of Dating Violence and Exposure to Dating Violence

	Perpetration of Dati	_	Exposure to Dating Violence ^{§**} [R ² : 0,31]			
Variables	[R ² : 0,2	5]				
	aOR (%95 CI)	p value	aOR (%95 CI)	p value		
Age	1,19 (1,07-1,32)	0,001	1,68 (1,16-2,43)	0,006		
Smoking (Ref: Never-users)	1,64 (1,07-2,52)	0,023	-	-		
Gender (Ref: Female)	-	-	0,65 (0,43-0,97)	0,037		
Family Structure (Ref: Nuclear family)	-	-		0,068		
Extended family	-	-	1,10 (0,56-2,14)	0,789		
Fragmented family	-	-	2,22 (1,13-4,37)	0,021		
Mental Illness Diagnosis (Ref: No)	-	-	2,58 (1,53-4,35)	< 0,001		
Witnessing Domestic Violence (Ref: No)	2,92 (1,92-4,45)	< 0,001	2,84 (1,89-4,26)	< 0,001		
Knowledge of Dating Violence Concept (Ref: No)	-	-	2,13 (1,39-3,26)	0,001		
Witnessing Dating Violence Among Friends (Ref: No)	4,71 (2,46-9,03)	< 0,001	4,27 (2,70-6,75)	< 0,001		
Total scale score	1,03 (1,00-1,05)	0,021	-	-		

^{*}The model has been adjusted for: gender, family structure, school type, consuming alcohol, having a mental health problem diagnosed by a doctor, being exposed to domestic violence, having heard the concept of dating violence before, school year, and having an adequate and balanced diet. Overall significance and Likelihood Ratio (LRx^2) : $x^2(8) = 113,019$, p < 0.001.

studying at the preclinical level. However, it can be interpreted that clinical students' levels of responsibility and awareness of the concept of violence are higher as a result of more frequent encounters in the clinic.

Turkey's economic situation and socioeconomic differences have a high impact on cultural norms such as gender norms. Socio-economic and cultural differences in Turkey are known in the east-west axis and come to the fore in many research and indexes (28, 38) The developed and migration destination of the country is the west of the country. In our study, students who grew up in the rural areas, who have large families, and who statistically have more siblings are in the lower social class. Therefore, all these variables are secondary indicators of inequalities in health. Attitudes accepting DV seem to be more common among the mentioned people. These findings correlate with previous study results (10, 35, 39, 40). According to the results of previous studies, accepting attitudes towards domestic violence are more common among those who grew up in villages, those who live with an extended family, and those who have more siblings. There is a complex relationship between inequality and violence and socioeconomic structures play an important role in the formation of social relations in which violence takes place (41). As all these factors underline that inequalities in health are still valid and effective, we can overcome all types of violence by improving the related factors one by one (42).

The findings are concerning, and it is objectionable that future doctors and healthcare professionals have not heard of a public health problem. As lack of knowledge will prevent them from having the right attitude, all types of violence should be given wider coverage in psychology courses in the preclinical period for them to be aware in clinical practice. Their self-confidence should be increased by organizing problem-based training. In addition, prioritizing protective measures will be important to protect our future. Assuming that the prevalence of the problem in the community is higher than in health students, community-based screenings should be carried out to provide both social and medical support to the detected victims, and interventions aimed at children at earlier education levels should be implemented in schools to protect future generations. In addition, the correlational relationship between domestic violence and both perpetrating and being exposed to dating violence reveals that programs to prevent domestic violence or dating violence must be implemented with full determination and continuity.

Strengths and Limitations

Our study has limitations. The lack of random sample selection is one of the important limitations of the study. On the other hand, since the survey was delivered to the participants as an online form on a sensitive issue such as violence, more honest participation may have been obtained. Perceiving the questions as private may have prevented the correct answers. Recall bias can be talked about the questions including past experiences. In addition, since one-third of the participants have not heard of the concept of dating violence, prevalence values should be evaluated carefully.

^{**} The model has been adjusted for: school type, smoking and consuming alcohol, witnessing domestic violence, total scale score, and school year. Overall significance and Likelihood Ratio (LRx^2) : $x^2(8) = 171,371$, p < 0.001.

The fact that the sample of the study was selected with a 99.9% confidence interval increases the power of the study. Additionally, awareness has been created in people who have heard the concept of dating violence for the first time.

While the attitudes of the participants who use or are exposed to dating violence in their current relationships are more in favor of approval, those who witness dating violence in their friends' circle have rejectionist attitudes toward dating violence. Since the rate of students who have never heard of dating violence is high, more awareness should be raised on this issue. Men who grew up in rural areas with multiple siblings in large families can be a target group for interventions. Consistent with previous studies, since those who witness domestic violence are more accepting of psychological dating violence, the attitudes of future generations toward dating violence can be improved by preventing domestic violence.

Correspondence address: M.D., Elif Cil, Manisa Celal Bayar University, School of Medicine, Department of Public Health, Manisa, Turkey elifcilmd@gmail.com

REFERENCES

- 1. CDC. Fast Facts: Preventing Teen Dating Violence | Violence Prevention | Injury Center | CDC. 2022. Available from: https://www.cdc.gov/violenceprevention/intimatepartnerviolence/teendatingviolence/fastfact.html [Last accessed: 08/07/2023].
- 2. WHO. Violence Info Intimate Partner Violence. 2022. Available from: http://apps.who.int/violence-info/intimate-partner-violence [Last accessed: 08/05/2023].
- 3. WHO. Violence against Women Prevalence Estimates, 2018: Global, Regional and National Prevalence Estimates for Intimate Partner Violence against Women and Global and Regional Prevalence Estimates for Non-Partner Sexual Violence against Women. 2021.
- 4. Piolanti A and Foran HM. Psychological Violence in Dating Relationships among Adolescents: A Systematic Review and Meta-Analysis of Prevention Programs. Preventive Medicine 2022;159:107053; doi: 10.1016/j.ypmed.2022.107053.
- 5. Roberts AL, Gilman SE, Fitzmaurice G, Decker MP, Koenen KC. Witness of intimate partner violence in chik, ood an perpetration of intimate partner violence in adult! ood. Epidemiology. 2010 Nov;21(c). 99-18. doi: 10.1097/EDE.0b013e3181f39f03 PMID: 29611. 35; PMCID: PMC3108188.
- 6. Jennings WG, Oke in C, Fiquer AK, Sellers CS, Theobald D, Farrington DP. Dath, and I, timate Partner Violence among Young Persons 1, 1815–3. Evidence from a Systematic Review. Aggression and V. Lent Behavior 2017;33:107–125; doi: 10.1016/j.avb.20 7.01.007.
- 7. Break the Cycle. College Dating Violence and Abuse Poll, 2011. 2011. Available from: https://www.breakthecycle.org/college-dating-violence-and-abuse-poll/ [Last accessed: 08/05/2023].
- 8. Cengiz H, Kanawati A, Yıldız S, Süzen S, Tombul T. Domestic violence against pregnant women: A prospective study in a metropolitan city, İstanbul. J Turk Ger Gynecol Assoc. 2014 Jun 1;15(2):74-7. doi: 10.5152/jtgga.2014.65632. PMID: 24976770; PMCID: PMC4072553.
- 9. Evcili F and Daglar G. Attitudes of Students Studying in Various Fields Related to Health Services toward Gender Roles

- and Intimate Partner Violence. Perspectives in Psychiatric Care 2021;57(3):1299–1304; doi: 10.1111/ppc.12690.
- 10. Iftar M and Guler G. Attitudes and Behaviors of University Students towards Dating Violence. International Anatolia Academic Online Journal Health Sciences 2020;6(2):17.
- 11. Karatay M, Karatay G, Guraslan Baş N, Baş K. The Attitudes and the Behaviours of the University Students towards Dating Violence. Sted 2018;27(1):62
- 12. Selcuk KT, Avcı D and Mercan Y. Exposure to Dating Violence among University Statistis: Relationship between Exposure to Violence, and Artitudes towards Dating Violence and Perception of Genetr. Acibadem University Health Sciences Journa 20 (2)(3):202–308.
- 13. Toph Demirta E, Hatipoglu-Sumer Z and Fincham FD. utimate ortner Violence in Turkey: The Turkish Intimate P. tner Violence Attitude Scale-Revised. J Fam Viol 01 '32(3):349–356; doi: 10.1007/s10896-016-9852-9.
- 14. Toplu-Demirtas E and Aracı-Iyiaydin A. What Goes around Comes around: The Loop of Physical Teen Dating Violence Perpetration among Turkish Adolescents. New directions for child and adolescent development 2021;2021(178):95–113.
- 15. Smith SG, Zhang X, Basile KC, Merrick MT, Wang J, Kresnow M, Chen J. The National Intimate Partner and Sexual Violence Survey: 2015 Data Brief–Updated Release. 2018.
- 16. Shorey RC, Cornelius TL and Bell KM. A Critical Review of Theoretical Frameworks for Dating Violence: Comparing the Dating and Marital Fields. Aggress Violent Behav 2008;13(3):185–194; doi: 10.1016/j.avb.2008.03.003.
- 17. Meiksin R, Bonell C, Bhatia A, Melendez-Torres GJ, Kyegombe N, Kohli A. Social Norms About Dating and Relationship Violence and Gender Among Adolescents: Systematic Review of Measures Used in Dating and Relationship Violence Research. Trauma Violence Abuse. 2024 Jan;25(1):448-462. doi: 10.1177/15248380231155526. Epub 2023 Feb 24. PMID: 36825788; PMCID: PMC10666486.
- 18. Alzoubi FA and Ali RA. Jordanian Men's and Women's Attitudes Toward Intimate Partner Violence and Its Correlates with Family Functioning and Demographics. J Interpers Violence 2021;36(5–6):NP2883–NP2907; doi:

10.1177/0886260518769368.

- 19. Glass N, Fredland N, Campbell J, Yonas M, Sharps P, Kub J. Adolescent dating violence: prevalence, risk factors, health outcomes, and implications for clinical practice. J Obstet Gynecol Neonatal Nurs. 2003 Mar-Apr;32(2):227-38. doi: 10.1177/0884217503252033. PMID: 12685675.
- 20. World Health Organization . Preventing Youth Violence: An Overview of the Evidence. World Health Organization: Genève, Switzerland; 2015.
- 21. Earnest AA and Brady SS. Dating Violence Victimization Among High School Students in Minnesota: Associations with Family Violence, Unsafe Schools, and Resources for Support. J Interpers Violence 2016;31(3):383–406; doi: 10.1177/0886260514555863.
- 22. Nunez AE, Robertson CJ and Foster JA. Update on Intimate Partner Violence and Medical Education. Virtual Mentor 2009;11(2):124–129; doi: 10.1001/virtualmentor.2009.11.2.medu1-0902.
- 23. World Health Organization. Responding to Intimate Partner Violence and Sexual Violence against Women: WHO Clinical and Policy Guidelines. World Health Organization: Genève, Switzerland; 2013.
- 24. Balki Tekin, S., Gundogan, R. M., & Topak, O. Z. Attitudes of health care professionals towards violence against women: Are mental health professionals more sensitive? Journal of Clinical Psychiatry, 2024; 27(4): 311–319. https://doi.org/10.5505/kpd.2024.34270
- 25. Dean AG, Sullivan KM and Soe MM. OpenEpi: Open Source Epidemiologic Statistics for Public Health, Version 3.01. Updated April 6, 2013. OpenEpi com 2019.
- 26. Fincham FD, Cui M, Braithwaite S, Pasley K. Attitudes toward intimate partner violence in dating relationships. Psychol Assess. 2008 Sep;20(3):260-9. doi: 10.1037/1040-3590.20.3.260. PMID: 18778162.
- 27. Boratav K. Class Profiles from Istanbul and Anatolia. Turkey: Imge publications Ankara 2004.
- 28. Anonymous. Sub-National HDI Global Data Lab. 2019. Available from: https://globaldatalab.org/shdi/maps/shdi/TUR/ [Last accessed: 09/08/2023].
- 29. White SE, Malley J, Carton L, Dawson B. Basic & Clinical Biostatistics. Mcgraw-Hill Companies: New York; 2020.
- 30. Toplu-Demirtas E, Hatipoglu-Sumer Z and White JW. The Relation between Dating Violence Victimization and Commitment among Turkish College Women: Does the Investment Model Matter? International Journal of Conflict and Violence (IJCV) 2013;7(2):203–215.
- 31. Kisa S and Zeyneloglu S. Perceptions and Predictors of Dating Violence among Nursing and Midwifery Students. J Adv Nurs 2019;75(10):2099–2109; doi: 10.1111/jan.13982.
- 32. Dardis CM, Dixon KJ, Edwards KM, Turchik JA. An examination of the factors related to dating violence perpetration among young men and women and associated theoretical explanations: a review of the literature. Trauma Violence Abuse. 2015 Apr;16(2):136-52. doi: 10.1177/1524838013517559. Epub 2014 Jan 10. PMID: 24415138.

- 33. Kumcagiz H, Yam FC and Kinsiz DN. University Students' Perceptions of Dating Violence and the Relationship Between the Victims of Dating Violence and Violence Experiences in Childhood. Ondokuz Mayıs University Journal of Faculty of Education 2022;41(2):541–562.
- 34. Bilgic, F. Ş., Yıldız Karaahmet, A., & Boyacıoğlu, N. E. Gender perception and dating violence attitude of women students of health sciences: a cross-sectional study. Journal of Ethnicity in Substance Abuse, 2023; 1–13. https://doi.org/10.1080/15332640.2023.2294488
- 35. Yildirim-Hamurcu S and Terzioglu F. Attitudes toward Dating Violence among Turkish University Students: The Relationships with Self-Esteem Level and Gender Roles. Arch Psychiatr Nurs 2023;45:131–136; doi: 10.1016/j.apnu.2023.06.010.
- 36. Kelmendi K and Baumgartner F. A Mixed-Method Evidence of Intimate Partner Violence Victimization among Female Students in Kosovo and Its Correlates. Psychology of Violence 2017;7:440–449; doi: 10.1037/vio0000098.
- 37. Kelmendi K and Baumgartner F. Exploring Violence Socialization and Approval of Intimate Partner Violence Among University Students in Kosovo. J Interpers Violence 2020;35(5–6):1081–1107; doi: 10.1177/0886260517692336.
- 38. Karaalp-Orhan HS. Regional Disparities in Turkey: A Socio-Economic Perspective. European Journal of Sustainable Development 2020;9(3):103–103; doi: 10.14207/ejsd.2020.v9n3p103.
- 39. Nabaggala MS, Reddy T and Manda S. Effects of Rural–Urban Residence and Education on Intimate Partner Violence among Women in Sub-Saharan Africa: A Meta-Analysis of Health Survey Data. BMC Women's Health 2021;21(1):149; doi: 10.1186/s12905-021-01286-5.
- 40. Spencer GA and Bryant SA. Dating Violence: A Comparison of Rural, Suburban, and Urban Teens. Journal of Adolescent Health 2000;27(5):302–305.
- 41. Reichel D. Determinants of Intimate Partner Violence in Europe: The Role of Socioeconomic Status, Inequality, and Partner Behavior. J Interpers Violence 2017;32(12):1853–1873; doi: 10.1177/0886260517698951.
- 42. World Health Organization/London School of Hygiene and Tropical Medicine WH. Preventing Intimate Partner and Sexual Violence against Women: Taking Action and Generating Evidence. World Health Organization: Genève, Switzerland; 2010:94.