

CODEN [USA]: IAJPBB

ISSN: 2349-7750

INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES

SJIF Impact Factor: 7.187 https://doi.org/10.5281/zenodo.7539264

Available online at: <u>http://www.iajps.com</u>

Research Article

AWARENESS OF SEXUALLY TRANSMITTED DISEASES AMONG ADULT AGE GROUP IN KSA

Hussein Talal Sabban¹, Omaima salem tafran², Hoda Jehad Abousada³, Abdulaziz Shalan Alhumaidi⁴, NayilRadi Alanazi⁵, Abdulaziz Ayed Alshammari⁵, Ase el Hussain Alqahtani⁵, Mohammed Ahmed Alyazidy⁵, Galwy Abdulrahman, Kurkuman⁵, Abdullah AwodAltarteer⁵, Aljohara Saad Alsuhaili⁶, Maram Ibrahim Ali⁶, Sarah Yahya Mushari⁶ And Ziad Mohammed Alnogaly⁶ ¹ Assistant Professor of Obstetrics and Gynaecology at King Abdulaziz university faculty of medicine Rabigh Branch, KSA, Dh.sabban@yahoo.com ² consultant obstetrics & gynaecologist, primary health centre, Alaskan, Makkah, KSA DR.oma@hotmail.com ³ Obstetrics & Gynecology, Master SA, KAMC, Jeddah, KSA ⁴ Anesthesia resident, Alnoor Specialized Hospital,makkah , KSA ⁵ Service Doctor, MD, KSA

⁶ Medical intern, MBBS, KSA

Article Received: October 2022	Accepted: November 2022	Published: November 2022				
Abstract:						
Background: Sexually transmitted diseases	s (STDs) are one of the most serious c	diseases in the world. Therefore, this				
study provides a fresh perspective on the p	revalence of STIs among the elderly in	n KSA.				
Methods: The study employed a descript	ive design that asserts on offering l	light into the situation at hand and				
examining the variables under considerati	e e e e e e e e e e e e e e e e e e e					
levels of vulnerability. Hence, a cross sectional study approach was chosen for the main purpose of bringing forth						
information at a point in time on the prevalence of STIs among older adults in KSA. The current study looked at						
collecting data for the recent patients treat						
Results: study included 455 participants.	0					
opening upon STI concerns (Mean= 3.64)						
the patients have preference for specific do		• • • • • • • • • • • • • • • • • • •				
On the other hand, the lowest mean score w						
visiting health care facilities (Mean= 2.49)	C S					
Moreover, scale reliability would increase						
Conclusion: Study results showed that part	icipants agreed that community stigme	a prevent patients from opening upon				

Conclusion: Study results showed that participants agreed that community stigma prevent patients from opening upon their STI concerns. In addition, they agreed that majority of patients prefer specific doctors to seek treatment. On the other hand, participants disagreed that STI patient would attend treatment with the partner. Moreover, participants strongly disagreed with population would ask about STI preventive information while visiting health care facilities.

Corresponding author:

Dr. Hoda Jehad Abousada, *Obstetrics & Gynecology, Master SA, KAMC, Jeddah, KSA,*



Please cite this article in press Hoda Jehad Abousada et al, Awareness Of Sexually Transmitted Diseases Among Adult Age Group In KSA., Indo Am. J. P. Sci, 2022; 09(11).

INTRODUCTION:

For adults, sexual activity still plays a crucial role in improving their cardiovascular health and overall well-being. It is a shame that sexuality in the adult population is still stigmatized and misunderstood. Memish and colleagues [1] notice that as a result, harmful sexual practices are more commonplace due to a diminished focus on safe sexual activities.

Infectious sexually transmitted diseases continue to be a serious public health issue across the world, especially in underdeveloped regions. WHO estimates 499 million new cases of STIs per year, with the vast majority being treatable, as reported by literature [1]. Urban regions continue to be most hit, notably among singles and young people, according to data collected so far [2-3]. According to Smith and colleagues [4], many older persons believe false information about sexually transmitted infections (STIs) owing to a lack of awareness.

Promoting awareness of sexually transmitted infections calls for regular testing and encouragement within the context of sexual-health dialogue. Some studies note that increased contact across the generations helps spread STIs, particularly since older folks are more likely to engage with younger people [5-6]. While Al-Afraa and others [7] acknowledge that there are several knowledge instruments accessible to people of all ages, they also acknowledge that there is currently a lack of a suitable tool to test STI knowledge across age groups.

One notable omission is data on STD outbreaks in Islamic nations. Due to religious prohibitions, nonmarital sex and homosexuality are taboo in this society, hence there is little information available on the issue [2]. Cultural and religious intolerance of homosexuality and non-marital sex lend credence to the hypothesis that the frequency of STIs is low. Meanwhile, despite 68,886 newly recorded instances, the degree of knowledge remains debatable [1]. The most common sexually transmitted diseases among the sample were non-gonococcal urethritis (25.4%), trichomoniasis (9.1%), human immunodeficiency virus (7%), human papillomavirus (2.9%), and syphilis (1.3%). The major emphasis of this research is on how widespread STIs are, and whether or not the degree of knowledge among adults is sufficient to prevent further spread [8].

The findings of this research will be useful in increasing awareness of STDs in the Kingdom of Saudi Arabia. Therefore, knowing where the major bottlenecks are in lowering the incidence of STDs will need information on safe sex practices. The study's findings will help public and private organizations throughout KSA target their efforts to reduce infection rates by identifying priority locations for intervention. Therefore, this study provides a fresh perspective on the prevalence of STIs among the elderly in KSA.

METHODS:

Study design

The study employed a descriptive design that asserts on offering light into the situation at hand and examining the variables under consideration. The design described the awareness levels of adults on STIs and the levels of vulnerability.

Study approach

Hence, a cross sectional study approach was chosen for the main purpose of bringing forth information at a point in time on the prevalence of STIs among older adults in KSA. The current study looked at collecting data for the recent patients treated across 10 hospitals in KSA.

Study population

The main population under investigation were the older adults in KSA, age group between 30 and 50 years. The population choice was based on an investigation on the level of awareness across KSA and thus generalize widely.

Study sample

A sample of 10 hospitals was used for collection of data, with the researcher approaching the records department for information on the prevalence of STIs among the chosen age group. The sample was randomly arrived at and used as the basis for data collection.

Study tool

The main data collection tool was the use of questionnaires that were designed to capture information about different respondents in the hospital environment. The questionnaire was designed to have multiple choice questions on a Likert scale to easily arrive at quantitative data.

Data collection

The questionnaire was designed to collect both demographic and issue specific data from the medical records of the patients. The questionnaire is strictly multi choice based and was administered to hospital staff to offer more information about their patients.

Data analysis

The data was analyzed both qualitatively and quantitatively using a thematic approach and application of SPSS to bring forth frequencies and correlational attributes. The data are presented in graphs and tables for ease of understanding across the target population.

Ethical Consideration

The researcher sought permission on collectign the data from the relevant authorities through consent forms. The main ethical consideration is to bring forth data from respondents over 18 years of age and hence ensure the validity of the research. At the same time, the information collected was kept confidential to avoid any harm to either the researcher or the respondents.

RESULTS:

Participants of the study were asked to answer a fivepoint Likert scale questions. Participants' answers are presented in table 1. Detailed frequency of participants answers are provided in the table in annex 1. It is noticed from the table that the highest mean was for community stigma prevent patients from opening upon STI concerns (Mean= 3.64). While a majority of the patients have preference for specific doctors for STI treatment in the second place with a mean of (3.41). On the other hand, the lowest mean score was for it is common for patients to ask for STI preventive information while visiting health care facilities (Mean= 2.49). Scale items showed good reliability (Cronbach's alpha= 0.880). Moreover, scale reliability would increase to (0.886) if the last item were deleted.

Table 1: Participants' mean and standard deviation scores for their answers about scale items						
Item		SD	Rank			
It is highly likely to hear of an adult with STI in the local community		1.199	6			
It is common to treat STI among adults in the community		1.206	12			
It is common for patients to ask for STI preventive information while visiting		1.329	13			
health care facilities						
It is common to hear of untreated STIs in the community that get deadly	2.79	1.227	10			
Patients stream into hospitals frequently to treat STIs	3.18	1.278	3			
A majority of the patients have preference for specific doctors for STI treatment		1.277	2			
A majority of the patients treating STIs are the regulars as opposed to new		1.221	7			
A majority of the patients treating STIs come with their partners		1.283	11			
A majority of patients are aware of the need for safe sex to avoid STIs		1.271	5			
The hospital offers knowledge on safe sex for patients visiting for STI treatment		1.278	5			
The hospitals offer tools e.g condoms for safe sex for patients visiting for STI	2.83	1.256	9			
treatment						
A majority of patients easily take on condoms and other safe sex tools as STI	2.85	1.23	8			
preventive measures						
The patients acknowledge stigma in the community associated with STIs	3.05	1.284	4			
Community stigma prevent patients from opening upon STI concerns	3.64	1.21	1			

DISCUSSION:

There is a high danger of spreading sexually transmitted diseases (STDs) since most people with an STD don't realize they have it at first [9-10]. This is particularly true in poor countries [11-12].

Very little is known about the prevalence of sexually transmitted diseases in Saudi Arabia and other Islamic nations. Although the incidence of sexually transmitted diseases (STDs) in Saudi Arabia is low, there is a higher risk of exposure today due to more people traveling abroad for education [13], which is despite the fact that detailed information on the epidemiology of HIV infection in Saudi Arabia has been published [14-16].

Sexually transmitted diseases (STDs) are a collection of infectious illnesses spread by sexual contact and may be caused by a wide variety of organisms, including viruses, bacteria, fungus, parasites, protozoa, and arthropods [17]. The social stigma of STDs is known to exist in diverse communities and leads to under-detection and underreporting [13, 18]. The most prevalent STDs are gonorrhea, chlamydial infection, syphilis, trichomoniasis, chancroid, genital herpes, genital warts, HIV infection, and hepatitis B.

Many international studies [19-21] have focused on adolescents because of their increased susceptibility to STDs; we did the same to evaluate their level of awareness and preparedness.

Since our questionnaire is simple, open to participation from all segments of society, and free of the embarrassment that often accompany in-person polling, we have seen a rapid uptick in response rates and confidence in the data it provides. Additionally, the Internet is increasingly being used to choose a sexual partner, which poses a new risk for the transmission of HIV/AIDS and other STDs; this technique of online survey has been utilized before by other studies [22-28].

Abstinence before marriage may protect adolescents from sexually transmitted diseases (STDs), although adolescents may be hesitant to discuss the topic openly with their parents and instructors if they are religious, as was explored by Gao et al. [29] in 2012. It's true that teens who practice their faith are less likely to contract sexually transmitted diseases (STDs), but there's no reason religion shouldn't be used to start a conversation about STDs, and the message of STD prevention can easily be embedded in the context of our faith and culture, especially now that we know schools should be teaching about the issue.

But Deptula et al. [30] in 2010 emphasized the relevance of the parent-child connection in preventing STDs, finding that it is linked to decreased rates of unprotected sex, unplanned pregnancies, and STDs in teens. Parent-adolescent communication is critical for adolescent health indicators, according to research conducted in various Mediterranean Catholic countries [31-33]. However, a study found that only 11.2% of adolescents learned about STDs from their parents [7]. According to the study [7] poll, 71.7% of participants' primary source of information is the Internet, with 35.1% citing their formal education as their primary source. With the Internet's pervasive presence in modern life, it makes sense to provide accurate information about sexually transmitted diseases (STDs) to young people and their families via formal education and awareness initiatives at school and in the community [7].

However, authors in [7] did find some good news about the STD community's rejection of those with the virus: just 22% of participants said they would seek for a divorce, which is down from the 32.8% recorded by Fageeh [34] in 2014. About 69% of those surveyed in [7] research said they would encourage a friend or family member to get treatment, and 58% said they would be tested for the condition [7].

CONCLUSION:

Study results showed that participants agreed that community stigma prevent patients from opening upon their STI concerns. In addition, they agreed that majority of patients prefer specific doctors to seek treatment. On the other hand, participants disagreed that STI patient would attend treatment with the partner. Moreover, participants strongly disagreed with population would ask about STI preventive information while visiting health care facilities.

REFERENCES:

- 1. Memish ZA, Filemban SM, Al-Hakeem RF, Hassan MH, Al-Tawfiq JA. Sexually transmitted infections case notification rates in the Kingdom of Saudi Arabia, 2005–2012.
- Albanghali MA, Othman BA. A cross-sectional study on the knowledge of sexually transmitted diseases among young adults living in albaha, Saudi Arabia. International Journal of Environmental Research and Public Health. 2020 Mar;17(6):1872.
- 3. Balbeesi A, Mohizea S. Knowledge and misconceptions of Saudi women about sexually transmitted infections. Journal of Egyptian Public Health Association. 2017 Dec 1;92(4):235-9.

- Smith ML, Bergeron CD, Goltz HH, Coffey T, Boolani A. Sexually transmitted infection knowledge among older adults: psychometrics and test–retest reliability. International journal of environmental research and public health. 2020 Jan;17(7):2462.
- 5. Alsubaie AS. Examining HIV and STIs related knowledge among male adolescents in Saudi Arabia. The Open AIDS Journal. 2020 Apr 20;14(1).
- Voyiatzaki C, Venetikou MS, Papageorgiou E, Anthouli-Anagnostopoulou F, Simitzis P, Chaniotis DI, Adamopoulou M. Awareness, knowledge and risky behaviors of sexually transmitted diseases among young people in Greece. International Journal of Environmental Research and Public Health. 2021 Sep 23;18(19):10022.
- El-Tholoth HS, Alqahtani FD, Aljabri AA, Alfaryan KH, Alharbi F, Alhowaimil AA, Alkharji A, Alrwaily A, Obied A, Al-Afraa T. Knowledge and attitude about sexually transmitted diseases among youth in Saudi Arabia. Urology Annals. 2018 Apr;10(2):198.
- 8. El Kazdouh H, El-Ammari A, Bouftini S, El Fakir S, El Achhab Y. Perceptions and intervention preferences of Moroccan adolescents, parents, and teachers regarding risks and protective factors for risky sexual behaviors leading to sexually transmitted infections in adolescents: qualitative findings. Reproductive Health. 2019 Dec;16(1):1-7.
- Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology. 7th ed. St Louis, Mo: Mosby; 2013. p. 418.
- 10. Goering RV. Mims' Medical Microbiology. 5th ed. Edinburgh: Saunders; 2012. p. 245.
- 11. Al-Sweih NA, Khan S, Rotimi VO. The prevalence of Chlamydia trachomatis and Neisseria gonorrhoeae infections among men with urethritis in Kuwait. J Infect Public Health. 2011;4:175–9.
- 12. Afrakhteh M, Beyhaghi H, Moradi A, Hosseini SJ, Mahdavi A, Giti S, et al. Sexually transmitted infections in Tehran. J Family Reprod Health. 2008;2:123–8.
- Madani TA, Al-Mazrou YY, Al-Jeffri MH, Al Huzaim NS. Epidemiology of the human immunodeficiency virus in Saudi Arabia; 18-year surveillance results and prevention from an Islamic perspective. BMC Infect Dis. 2004;6:4– 25.
- 14. Madani TA. Sexually transmitted infections in Saudi Arabia. BMC Infect Dis. 2006;6:3.

- 15. Alquaiz AM, Almuneef MA, Minhas HR. Knowledge, attitudes, and resources of sex education among female adolescents in public and private schools in Central Saudi Arabia. Saudi Med J. 2012;33:1001–9.
- Abdelmoneim I, Khan MY, Daffalla A, Al-Ghamdi S, Al-Gamal M. Knowledge and attitudes towards AIDS among Saudi and non-Saudi bus drivers. East Mediterr Health J. 2002;8:716–24.
- 17. WHO.STIs. [Last accessed on 2022 Nov 1]. Available from: http://www.who.int/topics/sexually_trans mitted_infections/en/.
- Al-Mazrou YY, Al-Jeffri MH, Fidail AI, Al-Huzaim N, El-Gizouli SE. HIV/AIDS epidemic features and trends in Saudi Arabia. Ann Saudi Med. 2005;25:100–4.
- 19. Victor EC, Chung R, Thompson RJ., Jr Identifying adolescent patients at risk for sexually transmitted infections: Development of a brief sexual health screening survey. Clin Pediatr (Phila) 2015;54:878–87.
- 20. Rink E, Montgomery-Andersen R, Anastario M. The effectiveness of an education intervention to prevent chlamydia infection among Greenlandic youth. Int J STD AIDS. 2015;26:98–106.
- 21. Liu G, Hariri S, Bradley H, Gottlieb SL, Leichliter JS, Markowitz LE. Trends and patterns of sexual behaviors among adolescents and adults aged 14 to 59 years, United States. Sex Transm Dis. 2015;42:20–6.
- 22. Rietmeijer CA, Bull SS, McFarlane M. Sex and the internet. AIDS. 2001;15:1433–4.
- 23. Bull SS, McFarlane M, King D. Barriers to STD/HIV prevention on the Internet. Health Educ Res. 2001;16:661–70.
- Wolak J, Mitchell KJ, Finkelhor D. Escaping or connecting? Characteristics of youth who form close online relationships. J Adolesc. 2003;26:105–19.
- 25. Kalichman SC, Weinhardt L, Benotsch E, DiFonzo K, Luke W, Austin J. Internet access and Internet use for health information among people living with HIV-AIDS. Patient Educ Couns. 2002;46:109–16.
- 26. DeGuzman MA, Ross MW. Assessing the application of HIV and AIDS related education and counselling on the Internet. Patient Educ Couns. 1999;36:209–28.
- 27. McFarlane M, Bull SS, Rietmeijer CA. Young adults on the Internet: Risk behaviors for sexually transmitted diseases and HIV(1) J Adolesc Health. 2002;31:11–6.

- 28. Strombeck R. Finding sex partners on-line: A new high-risk practice among older adults? J Acquir Immune Defic Syndr. 2003;33(Suppl 2):S226–8.
- 29. Gao E, Zuo X, Wang L, Lou C, Cheng Y, Zabin LS. How does traditional Confucian culture influence adolescents' sexual behavior in three Asian cities? J Adolesc Health. 2012;50(3 Suppl):S12–7.
- Deptula DP, Henry DB, Schoeny ME. How can parents make a difference? Longitudinal associations with adolescent sexual behavior. J Fam Psychol. 2010;24:731–9.
- 31. Calafat A, García F, Juan M, Becoña E, Fernández-Hermida JR. Which parenting style is more protective against adolescent substance use?

Evidence within the European context. Drug Alcohol Depend. 2014;138:185–92.

- 32. Di Maggio R, Zappulla C. Mothering, fathering, and Italian adolescents' problem behaviors and life satisfaction: Dimensional and typological approach. J Child Fam Stud. 2014;23:567–80.
- 33. García F, Gracia E. Is always authoritative the optimum parenting style? Evidence from Spanish families. Adolescence. 2009;44:101–31.
- 34. Fageeh WM. Sexual behavior and knowledge of human immunodeficiency virus/aids and sexually transmitted infections among women inmates of Briman Prison, Jeddah, Saudi Arabia. BMC Infect Dis. 2014;14:290.

Annex 1. 1 at the parts Tesponses to						
Item	1	2	3	4	5	
It is highly likely to hear of an adult with STI in the local community	60	102	120	127	46	
	13.2%	22.4%	26.4%	27.9%	10.1%	
It is common to treat STI among adults in the community	114	94	123	105	19	
	25.1%	20.7%	27%	23.1%	4.2%	
It is common for patients to ask for STI preventive information while		84	93	92	33	
visiting health care facilities		18.5%	20.4%	20.2%	7.3%	
It is common to hear of untreated STIs in the community that get		126	111	98	43	
deadly		27.7%	24.4%	21.5%	9.5%	
Patients stream into hospitals frequently to treat STIs	67	69	104	147	68	
	14.7%	15.2%	22.9%	32.3%	14.9%	
A majority of the patients have preference for specific doctors for	45	71	100	130	109	
STI treatment	9.9%	15.6%	22%	28.6%	24%	
A majority of the patients treating STIs are the regulars as opposed	68	95	128	115	49	
to new	14.9%	20.9%	28.1%	25.3%	10.8%	
A majority of the patients treating STIs come with their partners	95	105	115	91	49	
	20.9%	23.1%	25.3%	20%	10.8%	
A majority of patients are aware of the need for safe sex to avoid	69	94	117	112	63	
STIs	15.2%	20.7%	25.7%	24.6%	13.8%	
The hospital offers knowledge on safe sex for patients visiting for		86	109	128	57	
STI treatment	16.5%	18.9%	24%	28.1%	12.5%	
The hospitals offer tools e.g condoms for safe sex for patients visiting	88	93	130	97	47	
for STI treatment	19.3%	20.4%	28.6%	21.3%	10.3%	
A majority of patients easily take on condoms and other safe sex tools	77	109	120	105	44	
as STI preventive measures	16.9%	24%	26.4%	23.1%	9.7%	
The patients acknowledge stigma in the community associated with	66	93	122	101	73	
STIs	14.5%	20.4%	26.8%	22.2%	16%	
Community stigma prevent patients from opening upon STI concerns	42	39	73	186	115	
	9.2%	8.6%	16%	40.9%	25.3%	
1: Strongly disagree; 2: Disagree; 3: Neutral; 4: Agree; 5: Strongly agree						

Annex 1: Participants' responses to scale items