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Greek Freshman Students' Sexual Education: Results from an online questionnaire

Nikolaos Kintrilis* and Chrysoula Nifora

School of Medicine, National and Kapodistrian University of Athens.

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*Corresponding author: Nikolaos Kintrilis, School of Medicine, National and Kapodistrian University of Athens.

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Abstract:

Introduction-Background:

Human sexuality and intrapersonal relationships are a particularly complex and multidimensional phenomenon in each and every individual's life, making early experiences and sex education especially important in the context of one's upbringing. Sexual education refers to the structured provision of knowledge around human relationships, sexuality and sexual behaviour and has been to some extent incorporated in the education platforms of many countries around the globe. Literature suggests that organized sexual education yields vital results in the way younger generations treat their body, build healthy relationships and explore their sexuality. There has been a paucity of data regarding experience and sources of information upon these issues among greek students.

Methods-Subjects:

In the current qualitative retrospective cohort study we aim to explore experiences, perceptions and sexual behaviour of Athenian universities' freshmen students, as collected through a personalized questionnaire. Survey distribution took place online via utilization of university websites and social media platforms. A total of two hundred and fifty-four freshmen students from universities in Athens were recruited in the current study.

Results:

Participating population sample consisted of two hundred and fifty-four (n=254) freshmen students with a female sex ratio of 61% and a mean age of 18.7 ± 2.3 years, while 70% of the sample had already initiated their sexual life. First sexual information source for one third of the participants was the family environment, with internet and school tying in the second place and friends coming last. Eight out of ten participants would have liked more information provided to them, mainly by an expert on the subject or via the education system. Though males tend to have more partners, they also present riskier behaviour as shown by reduced contraceptive methods usage

Conclusion:

The majority of Greek freshmen students have not received official sexual education as part of their school curriculum, although they consider it necessary. The lack of structured sexual education provision reflects upon their beliefs in the contexts of sexual orientation, behaviours and healthy practices.

Keywords: sexual education; sexuality; sexual behaviour; freshmen students; university; athens.

Introduction:

Subjects revolving around intimate human intrapersonal relationships and sexuality are still being considered a taboo topic, especially amongst more conservative societies or underrepresented groups [1,2]. Furthermore, in many societal settings where religion represents a major cultural aspect, before-marriage relations and sexual interaction of any other kind belong to a forbidden realm, with healthy sexual practice information provision as well as sexual and reproductive health service use severely lacking [3,4]. Until recently, efforts for offering advice to adolescents on how to build complete, healthy sexual relationships fell upon the parents and, even today, are considered a part of family life education [5]. The introduction of more progressive educational methods in a late 19th century movement led to the appearance of a class under the name 'social hygiene' in Northern American schools, what can be identified



as the precursor of modern sexual education classes [6].

relationships, sexual orientation and behaviour is an essential part access to affordable contraception, but at the same time those of adolescents' upbringing, making an all-around approach to services are mainly used by adults and rarely by students. relevant matters an inescapable necessity. Sexual education Unmarried young people in China still live with the fear of stigma covering fields such as human anatomy, human reproduction and if they seek counselling from family planning workers [16]. reproductive health, legal consent and reproductive rights, safe Turkey also paints a very complex picture, as the large population sexual practice, birth control and sexually transmitted infections combined with the cultural mosaic and the difference in attitudes (STIs), as well as gender and sex differentiation is denoted under of people from rural and urban areas create a hard task when it the term comprehensive sexual education. Such practices not only comes to implementing sexual education practices. Virginity is an provide adolescents with the necessary valid information but, important characteristic of a girl and negative consequences of concurrently, remove barriers at a physical and emotional level in sexual experiences reflect almost always on girls, leading to their order for them to enjoy humane connection {7,8].

education of utmost importance stems for the previous decades' tourism grows fast, traditional patterns show some change towards outbreak of sexually transmitted infections, especially the surge in more liberal sexual attitudes [17]. Human Immunodeficiency (HIV) infection and Acquired Immunodeficiency Syndrome (AIDS). In most affected nations In Africa, for lack of official sexual education by the state, sexual worldwide where HIV infection arises at epidemic levels, education lies upon the efforts of Non-Governmental including Kenya, Tanzania and Uganda, sexual education is Organizations and private parties. Local authorities in Uganda regarded by healthcare advocators and academics as a viable have been trying years to educate the general population more and public health strategy to combat the phenomenon [9,10]. Without more about safe sexual attitudes. The result is a very high rate in a doubt, though, application of various techniques throughout the knowledge of transmitted infections, HIV/AIDS and their last decades shows that well-trained professionals offering a prevention/treatment among students [18]. On the other hand, in holistic and realistic approach to the matter yield the best results, Madagascar, results among students paint a different image as the as long as individual needs are covered in terms of varieties in age, prevalence of Human Immunodeficiency Virus rose between 2000 religion, cultural and societal settings.

Sexual Education Around the World:

According to the World Health Organization (WHO), there exists although up until now there has been no official program that no pattern regarding which countries worldwide offer compulsory covers the whole country. Every school is responsible for sexual education as part of school curricula, with countries developing its own program and curriculum concerning sexual pertaining in the same geographical and socioeconomic groups education, but it is important to note that most states offer official presenting differences [11].

differences among countries are observed. Romania does not students in various states of the country, concluding a significant include reproductive health education as a compulsory topic for the decline in receipt of education regarding sexually transmitted curriculum of different educational levels. Same rule applies for infections, HIV/AIDS, healthy relationships and other topics, most of the countries of Southern Europe, which base their official especially for females [22]. education on laws and decrees from previous decades [12]. On the Australia, with an education system often praised as one of the best England, Netherlands, France and Wales have for decades planning and sexual education programs [23]. implemented programs in schools based on policies for sexual education; openness about sex, society involvement, privacy and Sexual Education in Greece: access to contraception [13].

among conservative groups [14]. Indonesia still bases sexual on the subject in the last years [24]. education and sexual health on somewhat older beliefs and and discrimination against people choosing to go this way [15], assigned to the 2nd Gynaecology-Obstetrics Clinic of the

China is becoming more and more liberal in various fields of everyday life and this is apparent on family planning, social and The process of making informed decisions around human sexual education. The national family planning program may give marginalization. It seems that premarital sex demonization and gender inequity are still strong in the neighbouring country, A different factor that made the introduction of official sexual although in some central areas like the capital and Istanbul, where

> and 2003 from 0.15% to 0.95%, with students representing almost 2% of the population living with the virus [19].

In USA sexual education is compulsory in schools since 1940, guidelines upon which schools can create their projects [20,21]. A 2016 publication from the United States tried to measure the Europe is undoubtedly the continent along which the bigger penetration of sexual education among female and male school

contrary, countries with more advanced educational systems like in the world, offers widely accessible safe and effective family

According to the report 'Sexuality Education in Europe', school-Asia also presents wide variations among its countries when it based sexuality education in Greece began in 1980 with a pilot comes to applying sexual education tactics. Nepal, Bangladesh, programme, carried out by the Ministries of Health and Education. Myanmar and Pakistan offer no programs for their population Although these two ministries bear responsibility for devising the whatsoever, while in Malaysia sex education was introduced in sexuality education programs to be incorporated in schools, there public schools in 2011, but this only happened after a long debate has not been a specific course taught or a comprehensive approach

traditions. It is worth noting the existence of a presidential decree In 1999, the Ministry of Education decided for the production and that condemns cohabitation and considers premarital sexual use of educational material on health education and health activities unethical or even illegal, leading sometimes to racism promotion, and the relative project for 15-18-year-old pupils was



University of Athens, in collaboration with the Greek Sexology individually and privately. Institute. In 2001, material was delivered in the forms of a school book and a CD-ROM. The book was a quite structured approach, **Study population**: including chapters for bodily functions, sexuality, sex and gender

According to a 2011 publication from the Ministry of Education offer support in the learning process through communication and on the Greek high school curriculum, which are the latest available, interaction; therefore, they was chosen to be our main distribution pupils of the second-last and last high school class (aged 17-18 platform for our online questionnaire. years old) can choose a non-obligatory class named "Family and less in terms of demand from the pupils [27].

place, "family members and relatives" in third place, "school" sample but studying in the city of Patras, Greece [31]. ranked fourth in importance, and "other sources" (self- After conducting the pilot study, we had to make the following experimentation, books, partners) ranked last. It becomes apparent changes: that schools do not even begin to cover the need of Greek students • for sexuality education [28].

Aim and Objectives of the Study: Aim:

To explore the experiences, perceptions and attitudes of freshmen Data management and statistical analysis: university students in the city of Athens, concerning their sexual education knowledge and identify the strengths, weaknesses and The data from the online questionnaires was gathered, arranged in barriers of the sexual education system.

Objectives:

- opinions on sexuality
- behaviour

Study Methodology: Research design:

For the purpose of this study, we proposed the realization of a qualitative research protocol that is exploratory, descriptive and The recruited population sample consisted of two hundred and

[25]. In 2007, a publicly well-known sexologist was appointed by Freshmen students from higher educational Institutes of Athens the Ministry of Education to be in charge of the chapter for were included as they embody the eligible population of sexual "Sexuality Education-Intersexual Relationships" of a programme education receivers. The online population gave us the opportunity called "Social School" which was at the time run by the Ministry. for a larger sample and therefore more accurate perception of ideas. The sexologist made an effort to create a network of educators, Participating students were born in the digital age and are generally teachers and psychologists to convey some of the important described as digital citizens. Social platforms are broadly used by sexuality topics to the adolescent children and their parents as well students as a social technology tool, which helps them intergrade into university life, achieving an accepted social status at the beginning of their university life [29,30]. Meanwhile, they also

Orientation/Education" with duration of 4 hours a week. It remains The questionnaire was created based on the guidelines of WHO for unknown how many school units actually have trained personnel performing sexual education surveys and on the conceptual to teach this class and are capable of offering the class. It is framework of planned behaviour. The questionnaire consisted of a important to note here that non-obligatory classes in the Greek short description of our study objectives, followed by school are offered rather more based on the availability of teachers demographics that allowed us to weight our sample, while the main part consisted of approximately twenty closed-type questions. The development of the questionnaire was originally in English, In a review from 2010 among Greek students about sources of following the back-to-back translation method to Greek by a information about sexual education, "friends and classmates" bilingual Greek-English origin native speaker. A pilot trial was ranked first followed by "mass media and magazines" in second performed on students bearing the same characteristics as our

- Point the importance of our closed age group and educational status
- Conversion of many open type questions into closed ones for better analysis
- Reduction of questions' number for quicker participation

the proper form and transferred into the statistical analysis platform 'SPSS Statistics' v. 26.0 (IBM, Armonk, USA).

Limitations of the study:

1. Recognize the main sources of sexual education in Athens The main restriction of our research is the sensitivity of the topic 2. Explore the role of family, culture, tradition, religion and we aim to explore. Due to that and the accessibility to the large formal education when it comes to shaping students' population group of students, we decided to conduct the research online, based on the idea that almost all students are active on 3. Point out which demographic characteristics play the social media and the online groups of their departments. The biggest role when it comes to defining sexual behaviour attempted access only to tertiary education students with access to 4. Identify some of these characteristics as the major the Internet can be also described as a limitation. Finally, determinants of sexual education provision and sexual generalisations cannot be made for the whole population of Greek students, even if the capital houses the vast majority of university departments.

Results: Demographics:

contextual in order to gain a rich understanding of the phenomenon fifty-four (n=254) freshmen students with a female sex ratio of as it exists in the natural setting. Data for the research were 61% and a mean age of 18.7 ± 2.3 years. 231 students (91%) were collected through structured questionnaires, filled by students of Greek origin and 178 (70%) registered themselves as greek orthodox. Regarding sexuality, 85% of the students registered as every fourth student (26.0%) did not feel ready, while another heterosexual, 5% as homosexual, 9% as bisexual and 1% as 9.8% characterized premarital intimacy as unethical and 9.1% unspecified or other, while 70% of the sample had already initiated stated other reasons. First sexual information source for 35.8% of their sexual life. Full demographics for the participating sample the participants was the family environment, with internet and can be found in Table 1.

Demographics Variables	Sample Representation
Age (years)	18.7 ± 2.3
Sex – nr. (%)	
Male	99 (39.0%)
Female	155 (61.0%)
Country of Birth – nr. (%)	
Greece	239 (94.1%)
Other	15 (5.9%)
Yearly Family Income – euros	
<5,000	15 (5.9%)
5,000-10,000	39 (15.4%)
10,000-20,000	45 (17.7%)
>20,000	84 (33.1%)
Do not know	71 (28.0%)
Religion – nr. (%)	
Orthodox	178 (70.1%)
Atheist	61 (24.0%)
Other	15 (5.9%)
Spoken Language in	
Greek	248 (97.6%)
Other	6 (2.4%)
Living Status – nr. (%)	
With family	143 (56.3%)
Alone	91 (35.8%)
With friends/partner/roommate	20 (7.9%)
Working Status – nr. (%)	
Employed	58 (22.8%)
Without occupation	196 (77.2%)
Sexual Orientation – nr. (%)	
Heterosexual	216 (85.0%)
Homosexual	13 (5.1%)
Bisexual	23 (9.1%)
Other/Do not know	2 (0.8%)
Sexual Life Initiation – nr. (%)	
Yes	178 (70.1%)
No	76 (29.9%)

Table 1: Demographic data of the participating population.

Sexual Life Data and Information Sources:

Regarding the sexual life and information sources of the participating population, full data can be found in Table 2. Sexual initiation age for those that had already had at least one sexual intercourse was 17.0 ± 1.4 years of age, with the number of sexual partners being 2.4 ± 0.7 up to the date of the survey completion. Among those who had yet to participate in sexual intercourse, approximately half (55.1%) were not given the chance yet, and

every fourth student (26.0%) did not feel ready, while another 9.8% characterized premarital intimacy as unethical and 9.1% stated other reasons. First sexual information source for 35.8% of the participants was the family environment, with internet and school (25.2%) tying in the second place and friends coming last at 13.8%. Almost eight out of ten participants (78.0%) would have liked more information provided to them, mainly by an expert on the subject or via the education system. Among the 178 people who had already initiated their sexual life, the minority (40.4%) recalls using a contraceptive method on their first intercourse, with most used ones being condoms (78.1%). Although few participants actually contracted an STI so far (5.1%), only 38.5% of them admits to having sought medical help for the infection.

Sexual Life Variables			
Sexual initiation age (years)	17.0 ± 1.4		
Number of sexual partners – nr.	2.4 ± 0.7		
Reasons for no initiation of sexual			
'I did not have the chance yet'	140 (55.1%)		
'I do not feel ready yet'	66 (26.0%)		
'Premarital sex is morally	25 (9.8%)		
Other reason	23 (9.1%)		
First information source - nr.			
Family	91 (35.8%)		
Internet	64 (25.2%)		
School	64 (25.2%)		
Friends	35 (13.8%)		
Belief that more info is necessary	198 (78.0%)		
Preferred source – nr. (%)			
Expert on the subject	152 (59.8%)		
School	89 (35.0%)		
Other	13 (5.1%)		
Contraceptive use on first	72 (40.4%)		
Means of contraception on first			
Condom	139 (78.1%)		
Coitus Interruptus	7 (3.9%)		
Other	32 (18.0%)		
STI contraction – nr. (%)	13 (5.1%)		
Sought medical help after STI			
Yes	5 (38.5%)		
No	8 (61.5%)		

Table 2: Sexual life characteristics of the participating population.

Comparison between male and female students:

Independent sample student's t-testing was performed between male and female students for determination of possible differences regarding important topics of our questionnaire. Selected results are discussed below and relevant data is depicted in Table 3. Statistically important differences were found in sexual life initiation (p-value 0.032), number of sexual partners up to survey completion (p-value 0.013), as well as contraceptive use on first intercourse (p-value 0.005). On the other hand, no differences were noted between sexes for sexual initiation age (p-value 0.93) and STI contraction (p-value 0.329). The data suggests that more male



students have already had sexual intercourse although among sexual education programmes, with an approximate eight out of students who have already initiated their sexual life, no difference ten students expressing a wish for more school hours devoted to in initiation age exists. Furthermore, males tend to have more the subject. Let it be pointed out here, that many European partners but, at the same time, present riskier behaviour as shown countries, including Greece, do not have official sexual education by reduced contraceptive methods usage, though this is not courses available even at the level of official medical training [37]. mirrored upon STI contraction, where percentages do not differ Regarding sexual practice, only every third student who had significantly.

Independent Variable	Sex		P-
			value
Sexual life initiation –	Male 77.2%	Female	0.032
(%)		60.8%	
Sexual partners	Male 2.6 ± 0.9	Female	0.013
number		2.3 ± 0.6	
Contraceptive use on	Male 37.6%	Female	0.005
first intercourse – (%)		47.4%	
Sexual initiation age	Male 16.8 ±	Female	0.93
(years)	2.1	$17.4 \pm$	
		2.4	
STI Contraction (%)	Male 5.5%	Female	0.329
		4.9%	

Table 3: Independent sample t-test for male and female students.

Discussion:

questionnaire, consisting of both open- and closed-type questions, improvised by the authors, in order to assess sources of practice of freshmen students in the capital city of Greece. Since Furthermore, young pupils, adolescents and students deserve to be available literature and official data revolving around sexual in a position to make informed decisions when it comes to education within the greek borders are extremely scarce, we aimed exploring their sexuality, participating in and enjoying sexual to pinpoint areas in which young adults' knowledge appears intercourse, and building healthy intrapersonal relationships. We insufficient, in order for them to be better implemented as part of consider the topic of vital importance when it comes to planning future official sexual education practices. Recent literature reviews future school curricula and urge state authorities engaged in such suggest that curriculum-based interventions yield efficient results, planning to take action. especially when incorporating the use of modern technologies [32,33].

First and foremost, sexual orientation and age of sexual initiation does not differ significantly between the sexes, with males having participate in the survey and offer productive commentary. more partners throughout their early years of sexual life, while at the same time presenting riskier sexual behaviours, as shown by Ethical Approval and Participant Consent: the rarer use of contraception. A balance exists in terms of general knowledge around sexual intercourse, with females appearing subject of well-known STIs [34]. Since reports about sexual specific field was placed in the beginning of the questionnaire. violence in the country are increasing, we consider the matters of consent and sexual safety of utmost significance in future sexual education endeavours [35,36].

Secondly, as expected by the lack of not only scientific research Sources of Funding: but also official reporting, penetration of official sexual education within the national education system is extremely low. Only one study. fourth of asked students received their first piece of information on relevant subjects from an official school source, while family and References: internet were the lead providers, though students would have preferred for their educators to carry more expertise. Of note, both 1. students with or without an active sex life opted for more formal

already initiated their sex life used a contraceptive method on their first sexual encounter, with condoms being the most prevalent method. Although few students out of our sample actually contracted a sexually transmitted infection, more than half of them never sought medical help. Another recent study estimated a moderate knowledge around Human Papillomavirus (HPV) and its vaccine [38]. Taken together, these results appear quite alarming, especially given the fact that older reports estimate use of contraception at higher levels [39]. Of note, a nationwide survey of almost 2,000 individuals showed that while sexual health and STIs do not make it in the top-three public health concerns, they are of great importance in younger generations, thus making correct information provision vital for these ages [40].

Conclusion:

While state efforts for implementation of structured official sexual education programmes currently remain scarce, some level of provision of information around the subject exists among Greek In the current study protocol, we used an original online students, with home and internet being among the most used sources. As individuals nowadays begin to explore their sexuality and engage in sexual practice at younger ages, the need for information as well as beliefs and behaviours around sexual organized sexual education appears greater than ever.

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Since the questionnaire was anonymous, no ethical approval was more knowledgeable in topics around sexually transmitted sought for the data to be made public. Participants in the study infections. One of the few recent studies on the topic also found agreed to the statistical analysis as well as publication of their young people of 18-30 years of age to be very informed on the responses by filling out a relevant field in the questionnaire. The

Conflict of Interest:

The authors declare no conflict of interest for the present study.

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