

Knowledge and Practice of Contact Lens Use Among Adult Wearers: Cross-Sectional Study

Islim H.S

Department of Microbiology and Immunology, Faculty of Pharmacy, Pharos University, Alexandria, Egypt

Background⁽¹⁾

- The global burden of eye refractive disorders is increasing. Contact lenses (CLs) have been prescribed since more than a century for correction of refractive errors, cosmetic purpose, and as a therapeutic modality for corneal pathologies.
- Poor compliance to the recommended wear and care practice are considered the main cause of complications.
- With eyewear becoming more of a lifestyle accessory clubbed with long working hours and wearing time, it is important to look at the needs of the wearer in terms of lifestyle and the knowledge towards CL.

Objective

 The aim of the study is to assess knowledge, information and practices of contact lenses users among adult wearers.

Methodology⁽²⁾

- Online structured questionnaire was used to assess knowledge and practice among contact lens wearers.
- Two hundred twenty six respondents completed the questionnaire.
- The study population consisted of contact lens wearers (aged 18 and above). Those who did not meet any of those criteria were excluded from the study.
- The questionnaire was comprised of 3 parts. Part 1 obtained the demographic characteristics of the respondents. Part 2 consisted of questions assessing knowledge and information regarding contact lens use. Part 3 consisted of questions assessing practice pattern of contact lens wearers

Results

- The study involved 226 participants. There were 8 males (3.6%) and 82 females (96.4%) with age ranging between 18-55.
- 98.3% of the respondents were between 18 and 35 years old and 46.5% were university students.

Table 1. Demographic characteristics of the 226 respondents		
Age (years)	No	%
18-25	125	55.3
26-35	97	43
36-45	3	1.3
36-55	1	0.4
Gender		
• Male	18	7.9
Female	208	92.1
Education		
University	185	81.9
 Diploma 	9	4.0
 Secondary 	22	9.7
Others	10	4.4
Occupation		
 Employed 	37	16.4
 University Student 	105	46.5
House wife	76	33.6
Craft man	8	3.6

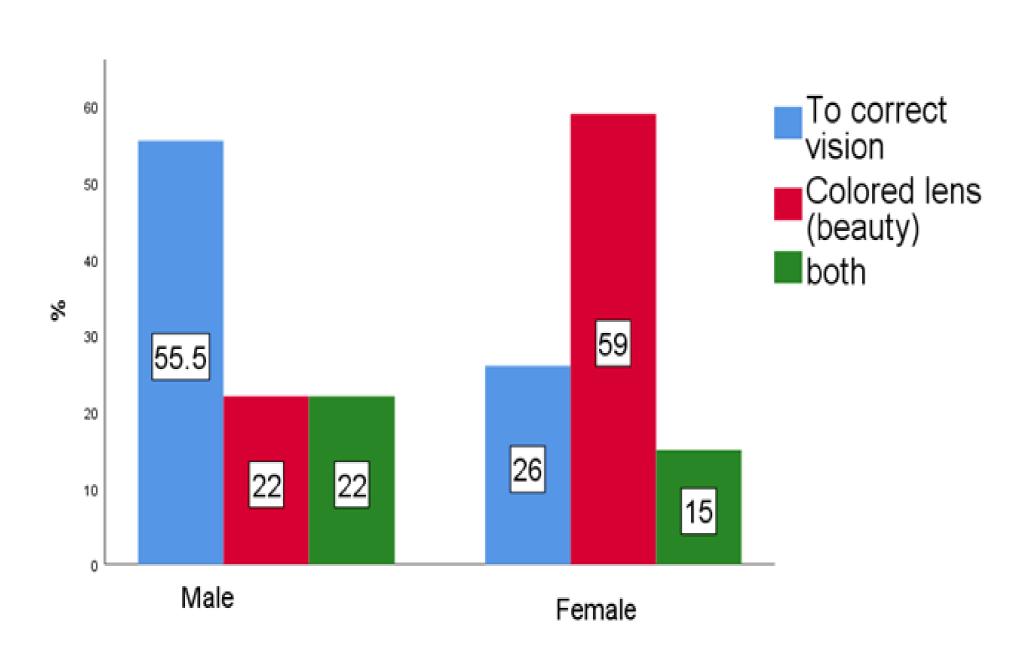


Figure 1 shows the distribution of male and female % of contact lens indication



- It was found that the majority of the wearer were female. 56 % of contact lens indication was for colored lens (beauty lens) and female represent 59% compared to male (22%). 55.5% of males use the CL to correct vision.
- Only 39.4% of respondents got proper contact lens care advice
- 53.1% of the respondent don't know the type of lens they are using
- 31.4% have no idea that certain microbes present in water that could cause complication. As it appears in their practice 50.5% wash their CL with water.
- 91.6% suffered from complication during their contact lens use.
- 60.6% of the respondent got no proper information about CL care.

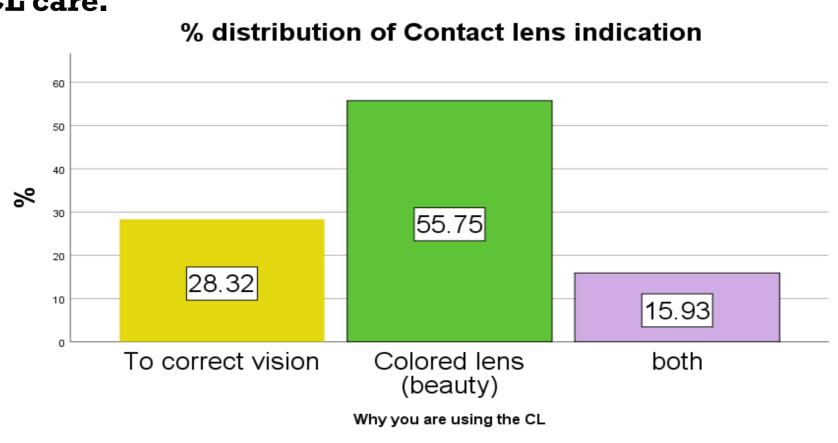


Figure 2. Shows the % distribution of contact lens indication

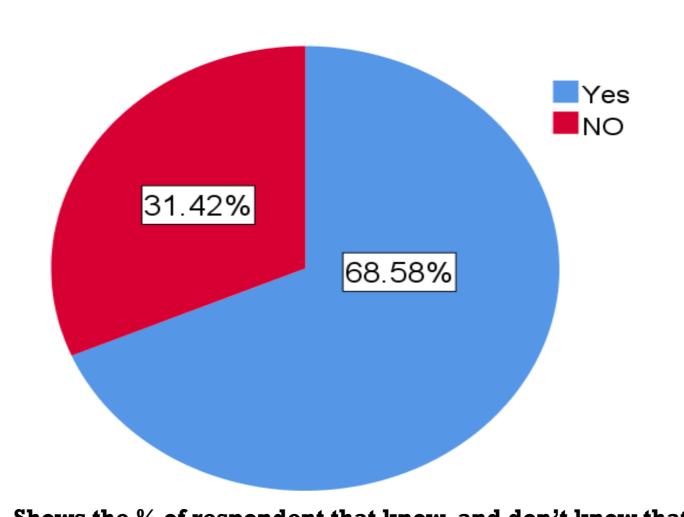


Figure 3. Shows the % of respondent that know and don't know that there is a parasite or microbe that can cause a problem in the eye if the lenses are washed with water.

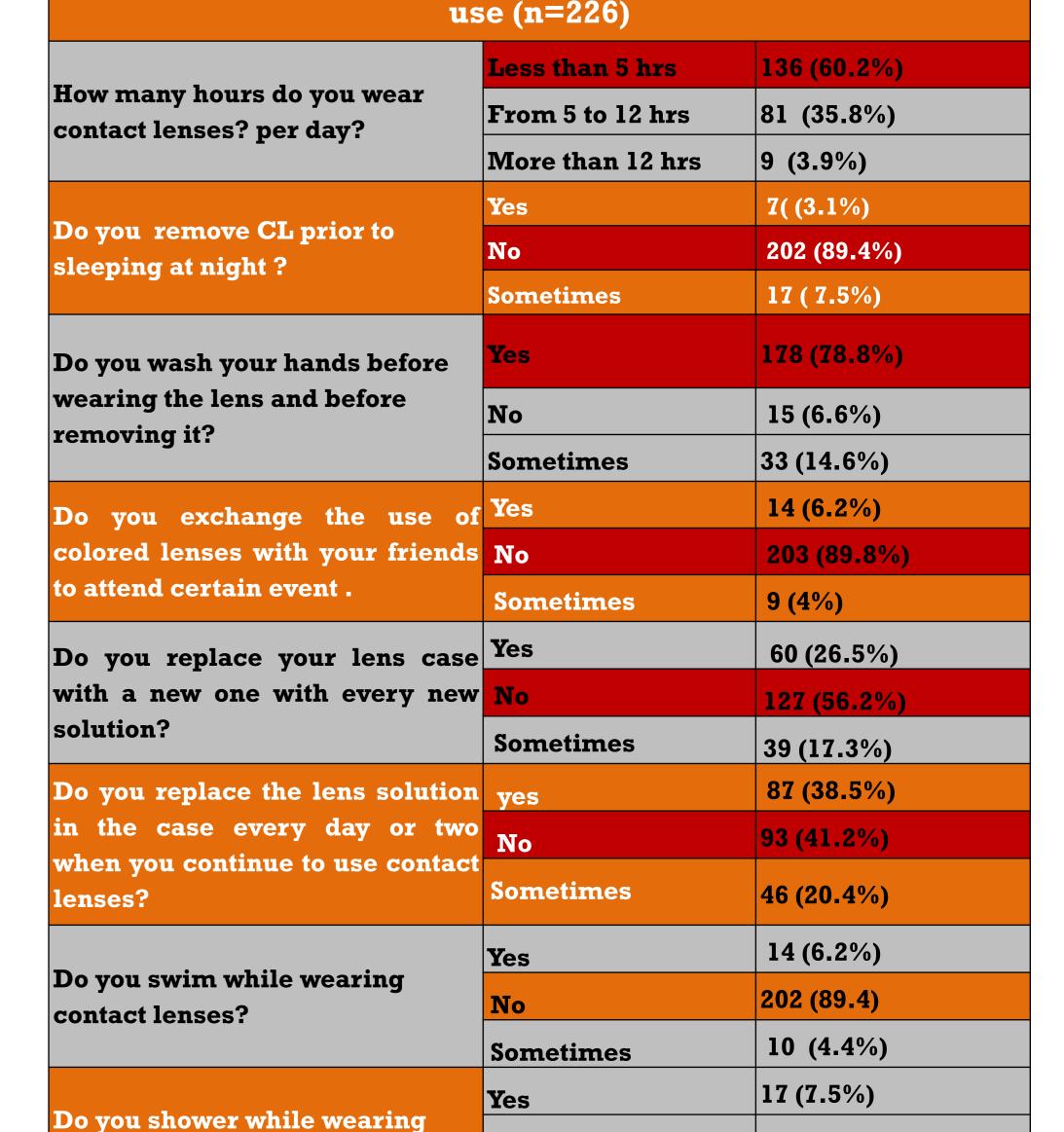


Table 3. Shows respondents' practice towards contact lens

• The duration of contact lens wear varied from less than 5 hours (60.2%) to more than 5 hours (39.8%) and 10.6% were not removing their CL prior to sleeping at night.

Sometimes

With soap

With water

With CL solution

I use single use CL

128 (56.6%)

81 (35.8%)

yes:7 (3%)

No= 219 (97%)

No: 112 (49.5%)

yes: 94 (41.5%)

Yes: 4 (1.8%)

No: 132 (58.5%)

No: 222 (98.2%)

Yes: 114 (50.5%)

- 50.5% wash their CL with water, 35.8 % sometimes shower while wearing the CL and only 6.2% swim while wearing the CL.
- 41.2% don't change the CL solution every day or two when continue to use CL.
- Only 26.5% replace their CL case with a new one with every new solution
- 89.8% don't exchange their CL with their friends
 Only 78.8% wash their hand while wearing the CL.

contact lenses?

lens?

How do you wash your contact

wash their hand while wearing the C

Conclusion⁽¹⁻³⁾

- The knowledge of respondents in this study, in relation to C/L use, was found to be inadequate.
- Large number of respondents also lacked knowledge of the correct methods of cleaning CL.
- In this study 60.6% mentioned that they don't got proper information about how to care for their contact lenses for that there is a need for more education to the consumers about the contact lens care and complications related to contact lenses, which should be provided by all contact lens providers so that the prevalence of eye complications will be lessened among the contact lens wearers

Acknowledgments

- I gratefully acknowledge the study respondents without whom this survey would not have been possible.
- I express my gratitude for those who assist and cooperate in data collection

References

- 1. Khoza N, Moodley T, Sokhulu S, Sotyana N.O, Suliman A, Hansraj R, Staden D.V. Knowledge, attitudes and practices of contact lens use in a South African adolescent population. African Health Sciences. 2020, v(20): p:768
- 2. Alobaidan O, Alkhalifah M, Alsayegh A, Alhumaid F, Ashammery A, Alghamdi K, et al. Knowledge and practice regarding contact lens amongSaudi urban contact lens users. Saudi J of Ophthalmology. 2018,v(32)p:93-96
- 3. Chattu VK. Importance of compliance in contact lens wear a study to assess the knowledge and practices among contact lens users for a healthy vision. Int J Curr Res Rev. 2013;5:104-109.