Digital Eye Strain Syndrome Among Higher Education Health Sciences Students in Saudi Arabia: Severity and Preventive Ergonomic Practices.

Soci	Sociodemographic data			
1.	Age			
2.	Gender			
	- Male			
	- Female			
3.	Residence			
	- Riyadh			
	- Jeddah			
	- Dammam			
Med	lical history			
4.	Do you have a chronic disease?			
	- Diabetes			
	- Hypertension			
	- Thyroid gland problems			
	- Others			
5.	Do you have an eye problem?			
	- No			
	- Yes			
	- If yes, mention it			
6.	Do you have a history of eye surgery?			
	- No			
	- Yes			
7.	Do you wear glasses?			
	- No			
	- Yes			
8.	Do you use medication daily?			
	- No			
	- Yes			
	- If yes, mention it			
Digi	tal devices use data			
9.	Duration of digital device use in years			
10	. Which of the following devices are used more daily?			
	- Desktop computer			
	- Laptop			
	- Tablet			
	- Smartphone			
11	. How many average daily hours are spent in digital device use?			
12	. Do you use protective eyeglasses during digital device use?			
	- No			
	- Yes			
13	. Do you use eye lenses during digital device use?			
	- No			
	- Yes			
14	. What is the duration of screen use without a break (in minutes)?			

15. Wha	at is your preferred method of studying?		
-	Mainly printed paper		
-	Mainly digital screen		
-	Both are equally used		
16. How many virtual classes hours per week?			
-	Less than 2 hours		
-	From 2 to 9 hours		
_	10 or more hours		

Digital eye strain syndrome questionnaire

By choosing the appropriate number, please indicate the extent to which you experience these symptoms (frequency and severity), especially during or after using a digital device for a long period during the past month.

Don't forget: If you choose "Never" in the frequency section, don't select medium or severe in the severity section.

Symptoms	Seve	erity	Frequency			
	Severe (2)	Mediu m (1)	Often or always (2)	Occasional (1)	Never (0)	
Vision-related symptoms						
1. Blurred vision						
2. Double vision						
3. Difficulty focusing for near vision						
4. Increased sensitivity to light						
5. Colored halos around objects						
6. Feeling that eyesight is worsening						
Eye related symptoms						
7. Eye pain						
8. Heavy eyelids						
9. Burning						
10. Itching						
11. Redness						
12. Dryness						
13. Tearing						
14. Excessive blinking						
15. A feeling of a foreign body in the						
eyes						
16. Headache						

Preventive ergonomic practices scale

Choose the appropriate answer for your preventive ergonomic practices against eye strain when using digital screens (computer - tablet - laptop - mobile) by choosing the appropriate number.

	Never	Rarely	Sometimes	Often	Always
Location of digital screen		1		l	
1. Do you place the device screen approximately 15-20 cm below eye level from the center of the screen?	1	2	3	4	5
2. Do you place the device screen 45-70 cm from the eye?	1	2	3	4	5
Display settings		1	1	1	
3. Do you keep your device's screen brightness low?	1	2	3	4	5
4. Do you use dark colors for your screen background?		2	3	4	5
5. Are you using the appropriate font size on the screen?	1	2	3	4	5
Lightening			,		
6. Are you positioning the screen appropriately to avoid glare or harsh light from lamps or windows?	1	2	3	4	5
7. Do you put curtains on your windows while using a digital screen?	1	2	3	4	5
8. Are you using low-wattage light bulbs?	1	2	3	4	5
Anti-glare screen or glasses/lenses					
9. Do you use a protective screen against screen glare?	1	2	3	4	5
10. Do you use glasses or contact lenses while using digital devices?	1	2	3	4	5
Rest breaks					
11. Do you take a 15-minute break every two hours during digital device use?	1	2	3	4	5
12. Do you practice the 20-20-20 rule? (Every 20 minutes of screen time, take a 20-second break and focus on something 20 feet away or more than half a meter away.)	1	2	3	4	5
Blinking					
13. Do you practice frequent blinking while using the digital device?	1	2	3	4	5
Document holder		,		,	
14. Do you use a document holder when typing on the device or place the document on the keyboard?	1	2	3	4	5

Seating position					
15. Do you place your feet in a comfortable	1	2	3	4	5
position or on the floor while using the					
digital device?					
16. Do you adjust the chair's handles to support	1	2	3	4	5
the arm and wrist while typing on the					
keyboard?					
17. Is the chair comfortably padded and	1	2	3	4	5
conforms to the body?					