

Appendix

I

Visual Challenges to Learning among Secondary School Students in Gwagwalada Area Council, Abuja, Nigeria

Greetings, I am a graduate student conducting research on the above topic. I hereby seek your assistance in filling this questionnaire which is only for research purpose. The information you supplied will be kept confidential and if published your identity will not be made known. Thanks. PLEASE FILL IT YOURSELF. DO NOT COPY FROM OTHERS. IT IS NOT ABOUT RIGHT OR WRONG ANSWER. IT IS NOT A TEST OR EXAM.

Please indicate you want to participate (consent) by your initials, signature and date below

Initials	Signature	Date
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1. My Age is ----- 2. My gender is: (a) Male (b) Female

3. My Tribe is-----

4. My Religion is (i) Christianity (ii) Islam (iii) Others (please write the name)-----

5. The name of my school is-----

6. My class is (i) JSS 1 (ii) JSS 2 (iii) JSS 3 (iv) SSS 1 (v) SSS 2 (vi) SSS 3

PLEASE TICK AS APPROPRIATE IN QUESTIONS 7-15.

SA=STRONGLY AGREE

A=AGREE

D=DISAGREE

SD=STRONGLY DISAGREE

7. What is the degree of importance of vision and hearing to learning?

	Degree of value of vision and hearing to learning	SA	A	D	SD
1	Vision is not important to learning				
2	Hearing is more important to learning than vision				
3	Vision is more important to learning than hearing				
4	Hearing and Vision are of equal importance to learning				

8. What are the causes of eye diseases?

	Causes of Eye diseases	SA	A	D	SD
5	Eye disease is caused by witchcraft/spirits				
6	Eye disease cannot be inherited from parents				
7	Eye disease cannot be caused by infections/germs				
8	Eye disease can result from injuries/trauma				
9	Refractive errors can make one not to see well				

9. What is your experience of eye test?

	Experience on Eye test	SA	A	D	SD
10	You have done eye test before				
11	Eye test was done for you when you went to the hospital for eye treatment				
12	Eye test was done for you during a free eye care programme				
13	Your secondary school specifically asked you to do eye test before admission				
14	Nobody informed you of the outcome of the eye test which was done for you				
15	During the eye test you were only asked to stand and read some number or letters from a distance				
16	During the eye test you were only asked to hold a written material and read from it				

10. What is your experience of eye glasses use?

	Experience on Eye glasses use	SA	A	D	SD
17	You are using eye glasses				
18	Eye glasses you use makes you see well				
19	Eye glasses you use is only for fashion				
20	Eye glasses you use protects your eyes				
21	You use eye glasses to imitate your friends				

11. What are the eye complaint(s) you use to have during learning activities?

	Eye complaints that can affect learning	SA	A	D	SD
22	You cannot see clearly notes on the chalkboard at all distances in the class				
23	You cannot see clearly notes on the chalkboard only at close distance in the class				
24	You cannot see clearly notes on the chalkboard at far distance in the class				
25	You cannot identify different colours or colour objects clearly				
26	You hold book too close while you are reading				
27	You cannot see clearly far object(s) after reading				
28	You have eye itching whenever you are reading				
29	You have headache whenever you are reading				
30	You have watering eyes /tearing whenever you are reading				
31	You have eye discomfort/pain whenever you are reading				
32	You have eye pain/discomfort after reading				
33	You have eye pain/discomfort whenever you are writing or copying notes				
34	You have eye pain/discomfort after writing or copying notes				
35	Words become double whenever you are reading				
36	You see words jumble or move on the page whenever you are reading				
37	You lose place, line to line and word to word whenever you are reading				
38	You use finger to maintain a place/trace words while reading				
39	You have to re-read a paragraph to understand what you read				

12. What are learning difficulties consequent on eye complaints?

	Learning difficulties consequent on poor vision	SA	A	D	SD
40	You have word Reversal when you are reading ('was' for 'saw', 'on' for 'no' etc)				
41	You experience letter Reversal when writing (b for d, p for q, etc)				
42	You experience Transposition of letters and numbers whenever you are reading (12 for 21, etc)				
43	You omit small words whenever you are reading				
44	You confuse small words whenever you are reading				
45	You have poor handwriting				
46	You have difficulty reading for long (short attention span)				
47	You assume awkward (distorted) posture when reading or writing				
48	You have to close or cover one eye before you can read				
49	You cannot see clearly this questionnaire				

13. What are the effects of your eye complaint(s) on your learning (reading, writing etc)

	Effects of students' eye complaints on learning	SA	A	D	SD
50	Your eye complaint(s) slows down your reading				
51	Your eye complaint(s) makes writing difficult for you				
52	Your eye complaint(s) make you unable to concentrate properly on your learning				

14. What action(s) are you taking about the eye complaint(s) you experience?

	Actions students take on their eye complaints	SA	A	D	SD
53	You continue to cope with it without any treatment				
54	You are praying for the Devine healing				
55	You have been using traditional medicine/drugs				
56	You have informed your guardian (teacher, parents, caretaker) about it				
57	You have been using glasses prescribed in the eye clinic/hospital				
58	You have been using medicine/drugs prescribed in the eye clinic/hospital				

15. How do you think eye complaint(s) affecting student learning should be managed?

	Management options for eye complaint(s) affecting student learning	SA	A	D	SD
59	Student should continue to cope without any treatment				
60	Student should just pray for divine healing				
61	Student should use traditional medication				
62	Student should inform the guardian (teacher, parents, caretaker)				
63	Student should go to the clinic or hospital				

10. What are the causes of learning difficulty among some of your students?

	Causes of students learning difficulty	SA	A	D	SD
1	The student(s) cannot see well				
2	The student(s) has/have hearing difficulty				
3	The student(s) has/have subnormal intelligent				
4	The student(s) has/have multiple problems				

11. What is the degree of importance of vision and hearing to learning?

	Degree of value of vision and hearing to learning	SA	A	D	SD
5	Vision is not important to learning				
6	Hearing is more important to learning than vision				
7	Vision is more important to learning than hearing				
8	Hearing and Vision are of equal importance to learning				

12. What are the causes of eye diseases?

	Causes of Eye diseases	SA	A	D	SD
9	Eye diseases are caused by witchcraft/spirits				
10	Eye disease cannot be inherited from parents				
11	Eye disease cannot be caused by infections/germs				
12	Eye disease can result from injuries/trauma				
13	Refractive errors can make one not to see well				

13. What are the eye complaint(s) your students use to have during learning activities?

	Eye complaints that can affect learning	SA	A	D	SD
14	Some students cannot see clearly notes on the chalkboard at all distances in the class				
15	Some students cannot see clearly notes on the chalkboard only at close distance in the class				
16	Some students cannot see clearly notes on the chalkboard at far distance in the class				
17	Some students cannot identify different colours or colour objects clearly				
18	Some hold book too close while they are reading				
19	Some cannot see clearly far object(s) after reading				
20	Some have eye itching whenever they are reading				
21	Some students have headache whenever they are reading				
22	Some students have watering eyes /tearing whenever they are reading				
23	Some students have eye discomfort/pain whenever they are reading				
24	Some students have eye pain/discomfort after reading				
25	Some students have eye pain/discomfort whenever they are writing or copying notes				
26	Some students have eye pain/discomfort after writing or copying notes				
27	Words become double whenever some are reading				
28	Some students see words jumble or move on the page whenever they are reading				
29	Some students lose place, line to line and word to word whenever they are reading				
30	Some students use finger to maintain a place/trace words while reading				
31	Some students have to re-read a paragraph to understand what they read				

14. What are learning difficulties students' encounter due to their eye complaints?

	Learning difficulties consequent on eye complaints	SA	A	D	SD
32	Some students have word Reversal when they are reading ('was' for 'saw', 'on' for 'no' etc)				
33	Some students experience letter Reversal when writing (b for d, p for q, etc)				
34	Some students experience Transposition of letters and numbers whenever they are reading (12 for 21, etc)				
35	Some students miss small words whenever they are reading				
36	Some students confuse small words whenever they are reading				
37	Some students have poor handwriting				
38	Some students have difficulty reading for long (short attention span)				
39	Some students assume awkward (distorted) posture when reading or writing				
40	Some students have to close or cover one eye before they can read				

15. What are the effects of your students' eye complaint(s) on their learning?

	Effects of students' eye complaints on learning	SA	A	D	SD
41	Students' eye complaint(s) slow down their reading				
42	Students' eye complaint(s) make writing difficult for them				
43	Students' eye complaint(s) make them unable to concentrate properly on their learning				

16. What action(s) did you take about your students' eye complaint(s)?

	Actions teachers take on their eye complaints	SA	A	D	SD
44	You took no action				
45	You asked students to continue to cope with it, since there is no effective treatment				
46	You encourage students to pray for the Devine healing				
47	You encourage students to use traditional medicine/drugs				
48	You notify the students' guardian (parents, caretaker) about it				
49	You asked students to see eye Doctors				
50	You asked students to buy eyeglasses				
51	You asked students to buy eye medicine/drugs at chemist				
52	You asked students to go to the clinic/hospital				

17. How do you think eye complaint(s) affecting student learning should be managed?

	Management options for eye complaint(s) affecting student learning	SA	A	D	SD
53	Student should continue to cope and should not seek treatment				
54	Student should just pray for divine healing				
55	Student should use traditional medication				
56	Student should inform the guardian (teacher, parents, caretaker)				
57	Student should go to the clinic or hospital				

18. Are Nigerian schools prepared for students with visual challenges?

	Nigerian schools and students with visual challenges	SA	A	D	SD
58	Students with poor vision should go to special school for their education				
59	Students with poor vision should go to normal school for their education to ensure social integration				
60	The teachers in normal school rarely take special interest in students with poor vision				
61	Normal schools are not prepared for challenges of educating students' with poor vision				
62	Nigerian education has never been fair to students with poor vision				
63	All teachers should be able to educate all category of students				
64	Only special education teacher should educate students with poor vision				
65	Schools do not specifically request for students' eye test before admission				
66	Students progress through schools without knowing their visual status				
67	Schools do not request students with eye complaints to see eye doctor				

III

Department of Ophthalmology,
College of Health Sciences,
University of Abuja, Nigeria
11th October, 2011.

The Secretary,
Secondary Education Board,
Area 3, Garki, Abuja.

Dear Sir,

REQUEST TO CONDUCT RESEARCH IN YOUR SCHOOLS

I hereby request for permission to conduct a research among Secondary School Students and teachers in Gwagwalada Area Council, FCT. The study will require students and their teachers filling questionnaires on eye complaints that affect the students' learning activities.

Researcher: I am a PGDE student carrying out a research on *Visual Challenges to Learning among Secondary School Students in Gwagwalada Area Council*.

Benefits: It is hoped the findings will be found useful by the stakeholders in education to improve learning among students.

Risks: The filling of the questionnaire will not be harmful or injurious to the students/teachers.

Confidentiality: The identity of the individuals' participants will not be known if published.

Participation: This is voluntary and contingent on school approval and students/teachers consent

Withdrawal: It will be possible to withdraw from the study should any participant so desire.

The following Secondary Schools in Gwagwalada Area Council have been selected for the study.

1. School for the Gifted, Gwagwalada
2. Government Secondary School, Gwagwalada
3. Government Day Secondary School, Gwagwalada
4. Government Secondary School, Dobi

I shall appreciate your permission/ consent to conduct the study

Please accept my esteemed Regards,

Many Thanks.

Dr. Abdulkabir Ayanniyi (Investigator/Researcher).

IV

Department of Ophthalmology,
College of Health Sciences,
University of Abuja, Nigeria
10th October, 2011.

The Principal,

Gwagwalada, Abuja.

Dear Sir,

REQUEST TO CONDUCT RESEARCH IN YOUR SCHOOL

I hereby request for permission to conduct a research among your students and teachers. The study will require students and their teachers filling questionnaire on eye complaints that affect the students' learning activities.

Researcher: I am a PGDE student carrying out a research on *Visual Challenges to Learning among Secondary School Students in Gwagwalada Area Council*.

Benefits: It is hoped the findings will be found useful by the stakeholders in education to improve learning among students.

Risks: The filling of the questionnaire will not be harmful or injurious to the students/teachers.

Confidentiality: The identity of the individuals' participants will not be known if published.

Participation: This is voluntary and contingent on school approval and students/teachers consent

Withdrawal: It will be possible to withdraw from the study should any participant so desire.

Your school has been selected out of many schools for the study but I need your permission/ consent to conduct the study in your school as required by *Ethics of Scientific Research*.

Finally, assist to fill the attached approval/consent form as the students' guardian.

Please accept my esteemed Regards

Many Thanks,

Dr. Abdulkabir Ayanniyi (Investigator/Researcher).

PERMISSION/CONSENT

Having been properly informed and understood the nature of this study on *Visual Challenges to Learning among Secondary School Students in Gwagwalada Area Council, I,*-----
-----hereby give my permission/informed consent as guardian that the students should participate in the study titled being conducted by Dr. Abdulkabir Ayanniyi of Department of Ophthalmology, College of Health Sciences, University of Abuja, Nigeria.

Signature or Thumbprint
(Guardian)

Date



FCT - SECONDARY EDUCATION BOARD EDUCATION SECRETARIAT

P.M.B. 151, Garki, Abuja. Tel: 09-2341148

Block 3, Area 3,
Garki, Abuja.

Our Ref:.....

Your Ref:.....

Date: 3rd Nov., 2011.....

The Principal

Gove.....

Sir/ Ma_{am}

LETTER OF INTRODUCTION

Approval has been granted to Dr. Abdulkabir Ayanniyi, a PGDE student of University of Abuja to conduct a research among Secondary School students and teachers in schools in Gwagwalada Area Council. The schools approved for him are:

1. SFG Gwagwalda
2. GSS Gwagwalada
3. GDSS Gwagwalada
4. GSS Dobi

Kindly assist him to get access to those things he will be in need of please.

Thank you.

Musa Z. Akwanga
Musa Z. Akwanga
Deputy Director (SS)

UNIVERSITY OF ABUJA TEACHING HOSPITAL

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Chief Medical Director/Chief Executive Officer

Dr. Peter Alabi
BM. BCH, FMCP

Our Ref: UATH/HREC/PR/235

Your Ref: _____

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Chairman Medical Advisory Committee /
Director of Medical Services

Dr. Teddy E. Agida
MBBS (IB), FWACS, MPA

Date: 08/12/2011

Dr Abdulkabir Ayanniyi,
Dept of Ophthalmology,
University of Abuja,
Abuja, FCT

**Visual challenges affecting learning among secondary school students in Gwagwalada Area Council,
Abuja, Nigeria**

I am pleased to inform you that approval has been given to conduct the study. The informed consent is also approved.

The approval is for one year and will lapse on 07/12/2012. If for any reason the study is not commenced as per the expected date, the committee should be appropriately informed.

Any changes to the protocol would necessarily require an approval from the committee.

Best wishes,

Dr Samuel Ajayi,
Chairman, UATH Health Research Ethics Committee