

Asian Journal of Medicine and Health

20(9): 67-73, 2022; Article no.AJMAH.86624 ISSN: 2456-8414

# Awareness, Knowledge of First Aid and First Emergency Behavioral Perception of Medical Students in a University in Southeastern Nigeria

# Nkechi Clara Nwosu <sup>a,b</sup>, Osah Martins Onwuka <sup>c</sup>\* and John Aja O'Brian Chukwu <sup>c</sup>

 <sup>a</sup> Department of Anatomy, Faculty of Basic Medical Sciences, College of Medicine and Health Sciences, Gregory University Uturu, Uturu Abia state, Nigeria.
 <sup>b</sup> Nigerian Red Cross Society, Lagos state chapter, Nigeria.
 <sup>c</sup> Department of Physiology, Faculty of Basic Medical Sciences, College of Medicine and Health Sciences, Gregory University Uturu, Uturu Abia state, Nigeria.

#### Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

#### Article Information

DOI: 10.9734/AJMAH/2022/v20i930490

#### **Open Peer Review History:**

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here: https://www.sdiarticle5.com/review-history/86624

**Original Research Article** 

Received 17 April 2022 Accepted 30 April 2022 Published 27 May 2022

#### ABSTRACT

**Background:** Students are usually exposed to all kinds of injury in schools and with inadequate health care services in most schools; administering first aid is important in such emergency situations. Hence, this study was conducted to assess the awareness, knowledge and behavioral perception of first aid among medical students of a tertiary institution in South-eastern Nigeria.

**Materials and Methods:** This cross-sectional study was conducted among 250 medical students of Gregory University Uturu, Abia state, Nigeria. A structured pre-tested validated questionnaire assessing their awareness, knowledge and attitude was used to collect the data. Data was analyzed using IBM Statistical Package for Social Sciences (SPSS) version 25. Chi-squared test were used to test for associations between socio-demographics, knowledge and attitude of respondents. A p-value of <0.05 was considered significant.

**Results:** Out of the respondents, 98.4% have heard about first aid before the survey, (52.8%; n=132) have good knowledge of first aid skills, and 94% (n=235) have good attitude towards first

aid. 91.2% said they are willing to help if trained while 94% of the respondents felt it was necessary to incorporate first aid in the school curriculum.

**Conclusion:** Although the students showed good awareness and attitude towards the concept of first aid, there is a gap in their knowledge and application of basic emergency first aid skills. There is a need to incorporate the training of basic first aid skills and basic life support skills in the school's curriculum to bridge the gap.

Keywords: First aid; behavioral perception; knowledge; university students; emergency; medical students.

## 1. INTRODUCTION

Accidents and injuries such as bleeding. fractures, asthmatic and epileptic attacks and drug overdose that befall students are known to occur in the school as they spend a great amount of their time in school. Although there are sick bays/clinics in almost all schools, there may be issues of availability of necessary medical equipment and trained medical personnel [1,2]. In such cases, when there is a medical emergency, the victim may end up with irreversible injury or even dead before either the arrival of qualified medical personnel or before transportation to a hospital. This reflects the importance of training of students on basic first aid; because to save life, prevent further damage and promote quick healing process are the goals of administering first aid [1,3].

In most scenarios, students may be willing to assist their injured classmates or friends but due to lack of skills, fear of the unknown or fear of infection, may end up either not helping or administering the wrong aid [4]. Usually 39% of Dead on Arrival cases can be prevented if proper first assistance is rendered [5]. Sometimes, they may have sufficient skills and knowledge from past training, but may not have the right attitude. For instance, one may be knowledgeable on basic first aid skills, but because of ones believe of putting on hand gloves before helping will eventually not render any help due to the unavailability of hand gloves at the scene. When children are trained in CPR, they can recognize the need to administer CPR and it is known to be successful in saving the life of victims when administered effectively [6].

Schools offer opportunities for learning and when children acquire these skills in school, they are likely to carry the knowledge into adulthood [1,7]. Most schools in Nigeria did not incorporate basic first aid training into their curriculum [2,6]; this study tends to provide evidence for the need to incorporate basic first aid training into schools. Therefore, awareness, knowledge and behavioral perception of first aid of medical students in a tertiary institution were evaluated.

#### 2. MATERIALS AND METHODS

This cross-sectional study conducted between February - March 2022 at Gregory University Uturu, Abia State, Nigeria was approved by the Ethics Review Committee of the University. The study population included 2<sup>nd</sup> year, 3<sup>rd</sup> year and 4<sup>th</sup> year students of the College of Medicine and Health Sciences. A structured pre-tested validated questionnaire which was adapted from the works of Adesegun et al [2] and Alsayali et al [3] was used to collect the data.

Verbal consent was obtained from the students and the questionnaire was uploaded into a Google form to facilitate access to it by the students. The questionnaire was structured into three parts. The first part of the questionnaire contained socio-demographic details of participants, the second part contained questions to assess their awareness and knowledge about basic first aid skills while the third part contained questions related to attitude and practices of first aid. Their knowledge about first aid was assessed with 8 basic first aid skill questions and each correct answer was awarded 1 point. Answers were graded as follows; 0-3 pointspoor knowledge, 4-8 points- good knowledge. Their attitude was also graded as follows; 0-3 bad attitude, 4-8 good attitude.

Data was analyzed using IBM Statistical Package for Social Sciences (SPSS) version 25. Frequency and percentage distribution were computed for each response. Chi-squared test were used to test for associations between sociodemographics, knowledge and attitude of respondents. P-values <0.05 was considered significant.

250 participants were used for the study. The socio-demographic details of the respondents

are summarized in table 1. 71.2% of the respondents were females. Students within the age range of 15-20 constituted the highest percentage (72%) of the participants with the

lowest (0.4%) being those above 30 years. Majority (98.4%) of the participants were single. For residential area, 89.2% stay in urban region while 10.8% in rural region.

# Table 1. Socio-demographic details of participants

Variable	Frequency (%)	
Sex		
Male	72(28.8)	
Female	178(71.2)	
Age range		
15-20	180(72.0)	
21-25	63(25.2)	
26-30	6(2.4)	
_ >30	1(0.4)	
Area of Residence		
Urban	223(89.2)	
Rural	27(10.8)	
If urban, how long		
<15 years	54(23.0)	
>15 years	181(77.0)	
Marital status		
Single	246(98.4)	
Married	4(1.6)	

#### Table 2. Awareness of first aid of participants

Variable	Frequency (%)		
Have you heard about first aid before now			
Yes	246(98.4)		
No	4(1.6)		
If yes, where			
Internet	5(2.0)		
Seminar/workshops	10(4.1)		
Books/Magazine	6(2.4)		
School	205(83.3)		
Family/Friends	15(6.1)		
TV/Radio	5(2.0)		
Yes	135(54.0)		
No	115(46.0)		
If yes, where			
Red Cross Society	24(14.9)		
HSE	2(1.2)		
Paramedical group	15(9.3)		
Religious organizations	12(7.5)		
NGOs	4(2.5)		
Others (social media, YouTube, etc.)	104(64.6)		

#### Table 3. Knowledge of first aid of participants

Variable	Yes (%)	No (%)	Grade = n (%)
Aims of first aid	130(52.0)	120(48.0)	
Meaning of 'DRABC'	149(59.6)	101(40.4)	Good=132(52.8)
Most important person in an emergency situation	40(16.0)	210(84.0)	
First thing to do with an unconscious individual	13(5.2)	237(94.8)	
Opening an airway	165(66.0)	85(34.0)	Poor=118(47.2)
First victim to attend to at a scene of an accident	128(51.2)	122(48.8)	
Most effective way to stop a major bleeding	196(78.4)	54(21.6)	
How to help a victim of seizure/convulsion	53(21.2)	197(78.8)	

#### 3. RESULTS

#### 3.1 Awareness of First aid among Participants

Out of the respondents, 98.4% have heard about first aid before the survey, with 83.3% (n=246) having heard about it from their schools and 2% knowing about it from the television or radio. 54% of the respondents claimed to have previously received basic first aid training and among these, the least (1.2%) received training from Health, Safety and Environment (HSE) group while majority (64.6%) received training from other platforms like social media (Table 2).

#### 3.2 Knowledge of Basic First aid among Participants

Their knowledge about first aid was assessed with 8 basic first aid skill questions and each correct answer was awarded 1 point. Answers were graded as follows; 0-3 points- poor knowledge, 4-8 points- good knowledge. In response to knowledge of first aid, 52% knew the three aims of first aid, 59.6% knew the steps in assessing a victim, 16% knew the most important person in an emergency scene, 5.2% knew the first thing to do with an unconscious victim, 66% knew how to open an airway, 51.2% knew who to attend to first in an accident scene, 78.4% knew how to stop bleeding and 21.2% knew what to do during a seizure (Table 3). Overall, 52.8% of the participants had good knowledge while 47.2% had poor knowledge.

# 3.3 Behavioral Perception of First aid among Participants

84.8% agree that first aid is necessary in all emergency situations. 43.2% of respondents agree that one must not put on a glove before helping an individual. 91.2% said they are willing to help if they know how to administer first aid. When asked if they have seen a medical emergency happen, 92.8% said yes while 59.7% of those who have seen were able to apply first aid to assist. For those who did not assist, 37.3% attributed it to lack of skills, none of the participants attributed it to fear concern while 41.27% attributed it to other personal concern. 74% were able to remain calm during the incident and 88.8% did call for help. 94% of the respondents felt it was necessary to incorporate first aid in the school curriculum (Table 4).

### 3.4 Correlation between the Sociodemographics and Knowledge and Behavior of First aid of Participants

There was no significant association between the sex of the participants and their knowledge of first aid while there was a significant association between the sex and the behavior of the participants ( $X^2 = 4.68$ , p< 0.03). The knowledge and behavior of first aid was not significantly associated with the age and residence of participants. The knowledge of first aid of the participants was also not significantly associated with their behavior.

#### 4. DISCUSSION

This study was carried out to evaluate the awareness, knowledge and behavioral perception of first aid of students of the medical college in a tertiary institution in order to provide scientific evidence of the need to incorporate basic first aid training into schools. The findings from this study show that the medical students have good awareness of first aid. This is in conformity with the work of [3] who reported that medical students had good awareness of first aid than literary students which could be as result of the students knowing the value of first aid and its association with the medical profession. The result of this study also revealed just a little above average (54%) of the students have actually been trained in basic first aid skills which shows a need to invest in the training of the students in first aid in order to equip them for 'out of the hospital' emergency cases. This agrees with the work of Mbada et al [8].

#### Table 4. Behavioral perception of first aid of participants

Variable	Yes (%)	No (%)	Unsure (%)
First aid is necessary in all emergency situations	212(84.8)	17(6.8)	21(8.4)
One must put on a glove before helping an individual	113(45.2)	108(43.2)	29(11.6)
If I see a sick or injured person, I would help if I know first aid	228(91.2)	11(4.4)	11(4.4)
Have you ever seen a medical emergency happen before	232(92.8)	13(5.2)	5(2.0)
If yes, did you apply any first aid to assist	145(59.7)	89(36.6)	9(3.7)
Were you able to stay calm during the incident	185(74.0)	39(15.6)	26(10.4)
Did you call for help	222(88.8)	16(6.4)	12(4.8)
First aid should be incorporated in the school curriculum	235(94.0)	7(2.8)	8(3.2)

Knowledge			Behavior		
Good (%)	Poor (%)	X <sup>2</sup> (P value)	Good (%)	Bad (%)	X <sup>2</sup> (P value)
95(53.4)	83(46.6)	0.081 (0.776)	171(96.1)	7(3.9)	4.684(0.03)*
37(51.4)	35(48.6)		64(88.9)	8(11.1)	
1(100)	0(0.0)	2.197(0.532)	1(100)	0(0.0)	0.760(0.859)
91(50.6)	89(49.4)		168(93.3)	12(6.7)	
36(57.1)	27(42.9)		60(95.2)	3(4.8)	
4(66.7)	2(33.3)		6(100)	0(0.0)	
12(44.4)	15(55.6)	0.848(0.357)	25(92.6)	2(7.4)	0.106(0.744)
120(53.8)	103(46.2)		210(94.2)	13(5.8)	
/ long					
22(40.7)	32(59.3)	4.117(0.128)	50(92.6)	4(7.4)	0.274(0.872)
101(55.8)	80(44.2)		171(94.5)	10(5.5)	
			126(95.5)	6(4.5)	1.049(0.306)
			109(92.4)	9(7.6)	
	Knowledge           Good (%)           95(53.4)           37(51.4)           1(100)           91(50.6)           36(57.1)           4(66.7)           12(44.4)           120(53.8)           22(40.7)           101(55.8)	Knowledge           Good (%)         Poor (%) $95(53.4)$ $83(46.6)$ $37(51.4)$ $35(48.6)$ 1(100) $0(0.0)$ $91(50.6)$ $89(49.4)$ $36(57.1)$ $27(42.9)$ $4(66.7)$ $2(33.3)$ 12(44.4) $15(55.6)$ $120(53.8)$ $103(46.2)$ $7$ long           22(40.7) $32(59.3)$ $101(55.8)$ $80(44.2)$	Knowledge           Good (%)         Poor (%) $X^2$ (P value) $95(53.4)$ $83(46.6)$ $0.081$ ( $0.776$ ) $37(51.4)$ $35(48.6)$ $0.081$ ( $0.776$ ) $37(51.4)$ $35(48.6)$ $0.081$ ( $0.776$ ) $1(100)$ $0(0.0)$ $2.197(0.532)$ $91(50.6)$ $89(49.4)$ $36(57.1)$ $27(42.9)$ $4(66.7)$ $2(33.3)$ $0.848(0.357)$ $120(53.8)$ $103(46.2)$ $0.848(0.357)$ $120(53.8)$ $103(46.2)$ $0.117(0.128)$ $101(55.8)$ $80(44.2)$ $0.117(0.128)$ $101(55.8)$ $80(44.2)$ $$	KnowledgeBehaviorGood (%)Poor (%) $X^2$ (P value)Good (%) $95(53.4)$ $83(46.6)$ $0.081 (0.776)$ $171(96.1)$ $37(51.4)$ $35(48.6)$ $64(88.9)$ 1(100) $0(0.0)$ $2.197(0.532)$ $1(100)$ $91(50.6)$ $89(49.4)$ $168(93.3)$ $36(57.1)$ $27(42.9)$ $60(95.2)$ $4(66.7)$ $2(33.3)$ $6(100)$ 12(44.4) $15(55.6)$ $0.848(0.357)$ $25(92.6)$ $210(94.2)$ $120(53.8)$ $103(46.2)$ $210(94.2)$ 12(40.7) $32(59.3)$ $4.117(0.128)$ $50(92.6)$ $101(55.8)$ $80(44.2)$ <td>KnowledgeBehaviorGood (%)Poor (%)<math>X^2</math> (P value)Good (%)Bad (%)<math>95(53.4)</math><math>83(46.6)</math><math>0.081 (0.776)</math><math>171(96.1)</math><math>7(3.9)</math><math>37(51.4)</math><math>35(48.6)</math><math>64(88.9)</math><math>8(11.1)</math><math>1(100)</math><math>0(0.0)</math><math>2.197(0.532)</math><math>1(100)</math><math>0(0.0)</math><math>91(50.6)</math><math>89(49.4)</math><math>168(93.3)</math><math>12(6.7)</math><math>36(57.1)</math><math>27(42.9)</math><math>60(95.2)</math><math>3(4.8)</math><math>4(66.7)</math><math>2(33.3)</math><math>6(100)</math><math>0(0.0)</math><math>12(44.4)</math><math>15(55.6)</math><math>0.848(0.357)</math><math>25(92.6)</math><math>2(7.4)</math><math>120(53.8)</math><math>103(46.2)</math><math>210(94.2)</math><math>13(5.8)</math><math>7\log g</math><math>717(94.5)</math><math>10(5.5)</math><math>10(5.5)</math><math>22(40.7)</math><math>32(59.3)</math><math>4.117(0.128)</math><math>50(92.6)</math><math>4(7.4)</math><math>101(55.8)</math><math>80(44.2)</math><math>171(94.5)</math><math>10(5.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math><math></math><math></math><math></math><math>126(95.5)</math><math>6(4.5)</math></td>	KnowledgeBehaviorGood (%)Poor (%) $X^2$ (P value)Good (%)Bad (%) $95(53.4)$ $83(46.6)$ $0.081 (0.776)$ $171(96.1)$ $7(3.9)$ $37(51.4)$ $35(48.6)$ $64(88.9)$ $8(11.1)$ $1(100)$ $0(0.0)$ $2.197(0.532)$ $1(100)$ $0(0.0)$ $91(50.6)$ $89(49.4)$ $168(93.3)$ $12(6.7)$ $36(57.1)$ $27(42.9)$ $60(95.2)$ $3(4.8)$ $4(66.7)$ $2(33.3)$ $6(100)$ $0(0.0)$ $12(44.4)$ $15(55.6)$ $0.848(0.357)$ $25(92.6)$ $2(7.4)$ $120(53.8)$ $103(46.2)$ $210(94.2)$ $13(5.8)$ $7\log g$ $717(94.5)$ $10(5.5)$ $10(5.5)$ $22(40.7)$ $32(59.3)$ $4.117(0.128)$ $50(92.6)$ $4(7.4)$ $101(55.8)$ $80(44.2)$ $171(94.5)$ $10(5.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$ $$ $$ $$ $126(95.5)$ $6(4.5)$

 
 Table 5. Association between socio-demographics and knowledge and behavior of first aid of participants

Values are expressed as frequency (%):\* Statistical significance, X2>4.32 (P < 0.05)

Although the awareness of first aid and having the right attitude and courage is needed in emergency situations, good knowledge of basic first aid skills and applying the correct measures has a key role in saving a victim in such situations [9]. The students knew how to handle major bleeding as it is a pretty common case which they are used to. This agrees with the report of Adesegun et al [2]. But when it comes to who to attend to first in a multiple casualty scene, and first thing to do when dealing with an unconscious victim, the students demonstrated poor knowledge, probably because these aspects are mostly taught during first aid training. For the first aid treatment of seizures or convulsions, majority of the students believed that putting a spoon in the mouth is the best treatment. This was also reported in the several studies [2,10-12]. The prevalence of the use of this wrong method for seizures is a common practice in Nigeria which has been passed down from older generations and there is a need to sensitize the students of the need to protect the victim from surrounding danger and waiting for the seizure to end while making necessary observations.

The results of this study showed a positive attitude of the students towards first aid as 92% of them were willing to administer first aid if properly trained. This was also reflected when about half of the respondents who didn't assist an injured victim attributed their reason to lack of skills. This is in contrast to the work of Adewale et al [13] who reported fear of contracting infection as the major reason why respondents did not administer help. The International Liaison Committee on Resuscitation has strongly recommended the need to incorporate the training of Cardiopulmonary Resuscitation (CPR) into every school curriculum, especially medical schools [14]. Majority of the students agreed that basic first aid and basic life support training be incorporated into the schools' curriculum. This is a factor that the country's education ministry should consider as several studies are also in conformity [2,6,13,15]. Knowledge of first aid of the participants showed no statistical correlation with their behavioural perception which indicates the fact that the students have good attitude towards first aid irrespective of their poor knowledge of the skills. This may be because the students are already imbibed with the need to provide help due to their field but just need the right training.

#### 5. CONCLUSION

Although the students showed good awareness and attitude towards the concept of first aid, there is a gap in their knowledge and application of basic emergency first aid skills. This study shows that the students are willing and ready to acquire the necessary skills, hence, there is a need to incorporate the training of basic first aid skills and basic life support skills in the school's curriculum to bridge the gap and increase the number of first responders in the country.

### DISCLAIMER

Authors have declared that no competing interests exist. The products used for this research are commonly and predominantly use products in our area of research and country. There is absolutely no conflict of interest between the authors and producers of the products because we do not intend to use these products as an avenue for any litigation but for the advancement of knowledge. Also, the research was not funded by the producing company rather it was funded by personal efforts of the authors.

# CONSENT

Authors declare that informed consent was obtained from each volunteered participant for publication of this research article and purpose of this study was thoroughly explained while they participated in the study.

# ETHICAL APPROVAL

Authors declare that this cross-sectional study was approved by the Ethics Review Committee of the University and performed in accordance with the ethical standards.

# **COMPETING INTERESTS**

Authors have declared that no competing interests exist.

#### REFERENCES

- Qureshi FM, Khalid N, Nigah-e-Mumtaz S, Assad T, Noreen K. First aid facilities in the school settings: Are schools able to manage adequately? Pak J Med Sci. 2018;34(2):272-276. Available:https://doi.org/10.12669/pjms.34 2.14766
   Adeageur Q, Alefin P, Da Costa A, Idauru
- Adesegun O, Alafin B, Da Costa A, Idowu AO, Osonuga A, Ajiro T, Osonuga A. et al. Poor practice of first aid among secondary school students: a pointer to poor emergency preparedness and services in Nigeria. World J Med Sci 2019;16(3):107-115.

Available:https://doi.org/10.5829/idosi.wjm s.2019.107.115

3. Alsayali RM, Althubaiti AQA, Altowairqi RM, Alsulimani FA, Alnefaie BM. Awareness, Knowledge, attitude and practices of first aid skills among medical and non-medical students at Taif University. World Fam Med 2019; 17(11): 34-43.

Available:

https://doi.org/10.5742/mewfm.2019.93693
Adeleke AA, Adelere EA. Status and factors influencing practice of first aid services among selected secondary school teachers in Ojodu Berger, Lagos, Nigeria. International J Med Nurs Health Sciences 2021; 2(2): 226-239. Available:https://doi.org/10.5281/zenodo.4

775204

- Workneh BS, Mekonen EG, Ali MS. Determinants of knowledge, attitude and practice towards first aid among kindergarten and elementary school teachers in Gondar city, Northwest Ethiopia. BMC Emerg Med. 2021;21:73. Available: https://doi.org/10.1186/s12873-021-00468-6
- Onyeaso AO, Achalu EI. Knowledge of Cardiopulmonary Resuscitation among some secondary school students in Nigeria. J Edu Pract 2014;5(15):180-183.
- Owusu-Addo A. A survey of health education and first aid practices in basic schools in three regional capitals in Ghana. Advan Soc Sci Res J. 2019; 6(7):6-17. Available:https://doi.org/10.14738/assrj.67. 6756
- 8. Mbada CE, Gbadamosi AO, Fasuyi FO, Adegbemigun OD, Oladiran AB, Orimolade EA. et al. Nigerian undergraduates' knowledge, attitude and practice of accident casualty handling. Arch Physiother Glob Res. 2018; 22(2): 41-52. Available:

https://doi.org/10.15442/apgr.22.2.5

- Karaca A, Köse S. The Effect of Knowledge Levels of Individuals Receiving Basic First Aid Training in Turkey on the Applications of First Aid. Niger J Clin Pract. 2021;23:1449-1455. Available:https://doi.org/10.4103/njcp.njcp\_ 686\_19
- Ezeala-Adikaibe BA, Achor JU, Onwukwe J, Ekenze OS, Onwuekwe IO, Chukwu O. et al. Knowledge, attitude and practice towards epilepsy among secondary school Students in Enugu, South East Nigeria. Seizure. 2013; 22: 299–302. Available:https://doi.org/10.1016/j.seizure.2 013.01.016
- 11. Eze CN, Ebuehi OM, Brigo F, Otte WM, Igwe SC. Effect of health education on

trainee teachers' knowledge, attitudes, and first aid management of epilepsy: An interventional study. Seizure. 2015; 33: 46-53.

Available: https://doi.org/10.1016/j.seizure.2015.10.0 14

- Anene-Okeke CG, Anosike C, Aluh DO, Odo LE. Secondary school students' knowledge, attitude, and practices towards epilepsy in Nsukka City, Enugu State. Epilepsy Behav. 2020; 112: 107441. Available:https://doi.org/10.1016/j.yebeh.2 020.107441
- Adewale BA, Aigbonoga DE, Akintayo AD, Aremu PS, Azeez OA, Olawuwo SD. et al. Awareness and attitude of final year students towards the learning and practice of cardiopulmonary resuscitation at the

University of Ibadan in Nigeria. Afr J Emerg Med. 2021;11: 182-187. Available:https://doi.org/10.1016/j.afjem.20 20.09.019

- Onyeaso AO, Onyeaso CO. Cardiopulmonary resuscitation skills in some Nigerian secondary school students. Port Harcourt Med J. 2021;10(2):60-65. Available:https://doi.org/10.4103/0795-3038.189455
- Birkun A, Trunkwala F, Gautam A, Okoroanyanwu M, Oyewumi A. Availability of basic life support courses for the general populations in India, Nigeria and the United Kingdom: An internet-based analysis. World J Emerg Med. 2020;11(3):133–39. Available:https://doi.org/10.5847/wjem.j.19 20-8642.2020.03.001

© 2022 Nwosu et al.; This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Peer-review history: The peer review history for this paper can be accessed here: https://www.sdiarticle5.com/review-history/86624