

## **The Impact of School Library and Social Media on Academic Performance of Student Nurses in Colleges of Nursing in Imo State**

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### ***Abstract***

This dissertation work was on the impact of school library and social media on academic achievements of student nurses in colleges of nursing in Imo state. The target population for the study comprised 420 nursing students while the sample size for the study is 205 which were obtained using Taro Yamane formular. The instrument for data collection in this study is a researcher structured questionnaire of Likert type of summated rating scale titled “Use of library and social media questionnaire” (ULSMQ) which consists of two sections, A and B. this instrument was validated by the supervisor and two experts in measurement and evaluation. Reliability of the instrument was established using the Cronbach alpha reliability method and a reliability index of 0.79 was obtained. Data collected were coded. Mean and standard deviation were used to analyze the research questions while the T-test analysis and regression were used to analyze the null hypothesis at 0.05 level of significance. Findings of the study showed among others that the school library is to a high extent made use of by the nursing students, social media help student nurses in solving academic problems and that students who use social media have good academic performances. Recommendations were made which include: lecturers and college management should make using the school library compulsory so that every student will develop reading culture and researching spirit, government should try to fund colleges of nursing, equip their school libraries with current books and install internet connections in the college libraries.

***Keywords:*** school library, social media, academic performance, student nurses

### **Introduction**

The Performances of Students in most colleges of nursing have become an object of inquiry of researchers nowadays. It is a top priority among educators who vowed to make a difference locally, regionally, nationally and globally. Such education trainers and researchers have long been interested in exploring variables which significantly contribute to the performance of learners. School facilities form an integral part of the educational system and are observed as a potent factor to qualitative and quantitative education. Learning can occur through one’s interaction with the environment. Environment here refers to facilities that are available to facilitate students’ learning outcome. Such environment includes the library, Information and Communication Technology (ICT) center, adequately equipped and properly utilized for efficient and effective learning.<sup>1-2</sup> The first systematically organized library in the ancient Middle East was established in the 7<sup>th</sup> century BC by Assyrian ruler Ashurbanipal in Nineveh, in contemporary Iraq. It contained approximately 30,000 cuneiform tablets assembled by topic. Library is a building or room in which a collection of books, journals, articles, newspapers, and tapes are kept for people to read study or

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borrow. The education process worldwide cannot function without books. The main function of a school library is to avail all books, periodicals and other reading materials to the learners at their convenience. Studies have shown a strong connection between the use of school library and students' academic performance. Students who often use the school library indicate better performance in examination than those who fail to make use of the school library.<sup>3-4</sup>

A school library is an important entity that cannot be ignored as it acts as a parent to the institution leading to the development of all-round students. Library users utilize library resources for different purposes such as; reading their notes and personal books, doing assignments, while others visit the library to prepare for examination, recreation and relaxation.<sup>5</sup>

## **Research Methodology**

### **Research Design**

Descriptive survey design was adopted and data collected from the respondents to check the impact of school library and social media on academic achievements of student nurses in Imo state colleges of nursing.

### **Area of the study**

The study was conducted in colleges of nursing in Imo State.

### **Population of the Study**

Population of this Study were, Third year Student Nurses of colleges of Nursing in Imo state. Five colleges of nursing were used because they were established for more than five years now. Some of these Schools, are owned by Government and some by mission distributed in the three senatorial zones of Imo state namely, Okigwe, Owerri and Orlu zones. All these colleges of nursing are approved, guided and accredited by the nursing and midwifery council of Nigeria (NMCN). From these third-year students of Imo State colleges of Nursing, a total population of 420 respondents were selected from where the sample size was determined.

### **Inclusion criteria**

The researcher used colleges of nursing that have existed for five years and above, and all the third-year students in the colleges of nursing because they are final year students and understand better through their experience.

### **Exclusion criteria**

Schools not up to five years in existence and Students that are not up to third year.

### **Informed consent**

A letter known as "Respondents letter" were given to the respondents and detailed explanation given to them about the objectives of the study and with their consent, the questionnaires were distributed. The respondents were allowed to participate voluntarily and assured that any information gathered will be confidential.

### **Sample Size determination**

The researcher used Taro Yamane (1967) formula to determine the sample size from a known population.

Taro Yamane's formula is given as:

$$n = \frac{N}{1 + N(e)^2}$$

Where N = Population of study (420)

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n = Sample size (?)

e = Level of significance at 5% (0.05)

1 = Constant

$$\therefore n = \frac{420}{1 + 420 (0.05)^2} = \frac{420}{1 + 420 (0.0025)} = \frac{420}{1 + 1.05}$$

$$n = \frac{420}{2.05} = 205.$$

The sample size therefore is **205**.

### Sample and Sampling Techniques

The sampling was done considering the schools and the participants. Five schools were selected purposefully from nine colleges of Nursing, the remaining four schools are the newly opened schools. Amongst these selected schools are Mission and Government colleges of nursing. Balloting method was used to select **205** samples from all the colleges of nursing.

### Data collection Instrument

A questionnaire termed “Use of Library and Social Media Questionnaire” (ULSMQ) was constructed by the researcher. It consisted of section A, which sought to elicit personal information and contained five items and Section B that sought to elicit information on the impact of Library and social media on academic achievement of student nurses in Imo state colleges of nursing. The secondary source of data collections were textbooks, journals and scholarly materials. The items were arranged in four Likert points.

**Strongly Agree (SA) ----- 4 points**

**Agree (A) ----- 3 points**

**Disagree (D) ----- 2 points**

**Strongly Disagree (SD) ----- 1 point.**

### Procedure for Data Collection

The researcher visited individual colleges with an introductory letter from head of department of nursing, Imo state university, Orlu campus. With ethical approval letter, introduction and good rapport was achieved with students and school authorities. After gaining the respondents consent, questionnaires were given to the respondents considering the time allowed by the authority, and in about 30minutes, same was collected from the respondents, five weeks was used by the researcher for this collection of data.

### Method of Data analysis

Data collected was analyzed using mean score and standard deviation analysis while t-test and regression were used to test the formulated hypothesis using SPSS (Statistical package for social sciences). After gathering the data through the administration of questionnaires, the collected data were coded and analyzed using SPSS statistical software according to the research question and hypothesis. Responses to the items from section **B** in rating scale weighed as follows: **Strongly Agree --- 4, Agree --- 3, Disagree --- 2, and Strongly Disagree --- 1**. Items with mean greater

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than and equal to critical mean **2.5** were considered accepted. In order to effectively analyze the data collected for easy management and accuracy, t-test and regression analysis were used for test of independence and relationship.

### Ethical consideration

The researcher got an Introductory letter from the department of Nursing sciences, Imo state university, Orlu campus and permission from the authorities of each institution before using the respondents. Detailed explanation about, time, nature and purpose of the study were given to the respondents. Confidentiality was maintained and data collected were recorded in the computer using coded numbers which were accessed only by the researcher. Respondent's consent was obtained and Participation was voluntary. There was high level of respect for the respondents.

### Result

**Table 1: Mean and standard deviation of the response on student nurses utilization of school library in colleges of nursing in Imo State**

Colleges of Nursing in Imo State													
S/N	ITEMS	AMI.		EMEKE.		MBAN.		UMULO.		ICONS.		GTOT	
		X	SD	X	SD	X	SD	X	SD	X	SD	X	SD
1.	All student nurses make use of the school library.												
1.92	.56	1.9	.55	1.9	.58	1.9	.57	1.9	.56	1.9	.58		
2.	The school library is only used by few student nurses.												
1.65	.59	1.7	.63	1.6	.57	1.7	.61	1.6	.58	1.6	.58		
3.	Student nurses generally don't use the school library.												
.47		3.0	.46	3.0	.50	3.0	.49	3.04	.44	3.07	.48	3.07	
4.	The use of school library help student nurses to excel in their examinations.												
3.72	.45	3.71	.45	3.72	.45	3.70	.46	3.73	.44	3.73	.45		
5.	Student nurses consider using the												

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school library as a waste of time.	3.38	.49	3.31	.47	3.35	.48	3.31	.47	3.34	.48
3.34 .47										
6 Student nurses consider school library a necessity in every college of nursing.	3.47	.63	3.48	.58	3.37	.63	3.53	.59	3.47	.60
3.47 .60										
<b>GRAND AVERAGE</b>	<b>2.88</b>	<b>.12</b>	<b>2.85</b>	<b>.15</b>	<b>2.86</b>	<b>.13</b>	<b>2.86</b>	<b>.15</b>	<b>2.86</b>	<b>.14</b>
2.86 .14										
N=420, n= 205.										

Data on table 4.1.1 above reveals mean values and standard deviations of the respondents on the extent student nurses utilize school library in colleges of nursing in Imo State. Mean value above 2.5 indicates that student nurses utilize school library in Imo State colleges of nursing. However, responses on individual items on use of library revealed grand mean of 1.92 and standard deviation of 0.56 for item 1 which indicates that all student nurses do not make use of the school library. In confirmation, Item 3 with a mean of 3.07 and SD of .47 agree that student nurses generally don't use the school library. Items 4, 5 and 6 have high mean above 2.5 with item statements as follow; The use of school library help student nurses to excel in their examinations, but responses revealed that student nurses consider using the school library as waste of time. Student nurses consider school library a necessity again in every college of nursing in Imo State. Finally, mean responses of nurses in colleges of nursing in Imo state with their corresponding standard deviation are; Amigbo college of nursing 2.88 .12, Emekukwu college of nursing 2.85 .15, Mbano college of nursing 2.86 .13, Umulogho college of nursing 2.86 .15 and Imo, State College of Nursing Okporo Orlu 2.86 .14. However, a grand mean of 2.86 .14 was obtained which appears that student nurses use school library.

**Table 2: Mean and standard deviation of the response on student nurses utilization of social media in colleges of nursing in Imo State**

		Schools of Nursing in Imo State											
		AMI.		EMEK.		MBAN.		UMULO.		ICONS.		G. Total	
S/N	ITEMS	X	SD	X	SD	X	SD	X	SD	X	SD	X	SD
7.	All student Nurses' make use of social media in their academic work	3.33	.47	3.31	.47	3.32	.47	3.29	.46	3.26	.44	3.30	.46

#### 8. Social media is

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	Only used by few student nurses.	1.59	.49	1.53	.50	1.51	.50	1.46	.50	1.47	.50	1.51	.50
9.	Student nurses generally don't make use of social media in their academic work	3.52	.50	3.53	.50	3.43	.50	3.70	.46	3.65	.48	3.57	.49
10.	Student nurses consider Social media usage a necessity in teaching and learning process.	3.50	.50	3.46	.50	3.54	.50	3.43	.50	3.42	.50	3.47	.50
11.	Using social media is considered a waste of time as it has no positive contribution to academic performances of student nurses.	1.71	.45	1.65	.47	1.62	.49	1.70	.46	1.65	.48	1.67	.47
12.	Student nurses use social media in solving academic problems and in carrying out researches.	3.47	.63	3.48	.58	3.45	.60	3.53	.59	3.52	.55	3.49	.59
<b>GRAND AVERAGE</b>		<b>2.85</b>	<b>.23</b>	<b>2.83</b>	<b>.24</b>	<b>2.81</b>	<b>.25</b>	<b>2.85</b>	<b>.25</b>	<b>2.83</b>	<b>.25</b>	<b>2.83</b>	<b>.24</b>
N=420 n=205 (M=44, F=161)													

Data on table 2 above reveals mean values and standard deviations of the respondents on the extent student nurses utilize social media in schools of nursing in Imo State. Mean value above **2.5** indicates that student nurses utilize social media in schools of nursing in Imo State. However,

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responses on individual items on use of social media in their academic work revealed grand mean of **3.30** and standard deviation of **0.46** for item **7** which indicates that all student nurses make use of the social media in their academic work. Responses of some nurses indicate that student nurses do not make use of social media in their academic work as in item **9**. Finally, mean response of nurses in colleges of nursing in Imo state with their corresponding standard deviation are; Amigbo college of nursing **2.85, .23**, Emekukwu college of nursing **2.83, .24**, Mbano college of nursing **2.81, .25**, Umulogho college of nursing **2.85, .25** and Imo State College of Nursing Okporo Orlu **2.83, .25**. However, a grand mean of **2.83, .24** above **2.5** was obtained which implied that student nurses agree in using social media in their academic work.

**Table 3: Mean and standard deviation of the response of male and female student nurses on their academic achievement in using school library**

		Gender			
S/N	ITEMS	Male		Female	
		X	SD	X	SD
13.	Student nurses perform better in academics when they frequently use the library			3.34	.47
				3.29	.45
14.	Student nurses learn how to concentrate more in their studies with the aid of school library			3.56	.50
				3.57	.49
15.	School library encourages study group formation and positive students' interaction amongst the students in colleges of nursing			3.43	.50
				3.45	.49
16.	Regular library users excel in Examinations more than non-users.			3.27	.65
				3.27	.67
17.	Academic libraries provide resources and services for teaching, learning and research needs of student nurses			3.34	.47
				3.32	.47
18.	School library help students to build new knowledge and vocabulary			3.61	.61
				3.49	.65
GRAND AVERAGE		3.42	.24	3.40	.27
N=420					
n=205 (M=44, F=161)					

Data on table 3 above reveals mean values and standard deviations of the male and female student nurses on their academic achievement in using school library. The table has a grand average mean and standard deviation of **3.42 and 0.24** for male and **3.40 and 0.27** for female. Mean value above

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was **2.5** which indicates agreed for each item and a cluster. Therefore, items such as Student nurses perform better in academics when they frequently use the library; Student nurses learn how to concentrate more in their studies with the aid of school library; School library encourages study group formation and positive students' interaction amongst the students in colleges of nursing; Regular library users excel in Examinations more than non-users; Academic libraries provide resources and services for teaching, learning and research needs of student nurses and School library help students to build new knowledge and vocabulary have mean above **2.5**. It then means that both male and female students agreed that academic achievement of student nurses improve by the use of library. Further, hypothesis was tested to ascertain any difference between male and female nurses on influence of the use of library on academic achievement.

**Table 4: T-test analysis in the mean responses of male and female student nurses on their academic achievement in using the school library**

Source of Variation	N	X	SD	df	t	Sig.(2-tailed)	Decision
Male	44	3.42	.24	203	.586	.559	NS
Female	161	3.40	.27				
$\alpha=0.05$							

Table 4 above revealed result of independent t-test that there is no significant difference in mean response of male and female student nurses on their academic achievement in using school library with a probability value of **0.559** above **0.05** alpha level of significance. This implies that male and female student nurses in colleges of nursing in Imo State have equal opinion that school library can have influence on academic achievement, thus, improving the academic achievement of student nurses. Both male and female nurses who use school library have improved academic achievements.

**Table 5: Mean and standard deviation of the response of male and female student nurses on their academic achievement in using social media**

S/N	ITEMS	Gender			
		Male		Female	
		X	SD	X	SD
19.	There is a strong relationship Between social media usage and academic achievement of student nurses		1.59	.49	1.55 .49
20.	Social media help student nurses in solving academic problems		1.75	.43	1.68 .46

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<b>21. Social media helps in academic information dissemination</b>	<b>3.34</b>	<b>.47</b>	<b>3.33</b>	<b>.47</b>
<b>22. Lecturers find it very easy to communicate with students through the use of social media</b>	<b>1.90</b>	<b>.52</b>	<b>1.73</b>	<b>.50</b>
<b>23. With social media, Students can embark on academic discussion in form of online study group</b>	<b>3.45</b>	<b>.50</b>	<b>3.49</b>	<b>.50</b>
<b>24. Social media encourages socialization which is a stepping stone to academic group formation</b>	<b>3.29</b>	<b>.46</b>	<b>3.36</b>	<b>.48</b>
<b>GRAND AVERAGE</b>	<b>2.55</b>	<b>.186</b>	<b>2.52</b>	<b>.17</b>

**N=420**  
**n=205 (M=44, F=161)**

Table 5 above reveals mean values and standard deviations of the male and female student nurses on their academic achievement in using social media. The table has a grand average mean and standard deviation of **2.55 and 0.186** for male and **2.52 and 0.17** for female. Mean value was above **2.5** which indicates agreed for the cluster. Therefore, items such as social media helps in academic information dissemination, with social media, Students can embark on academic discussion in form of online study group, social media encourages socialization which is a stepping stone to academic group formation have mean above **2.5**. It then appears that both male and female agree to those items. Further, hypothesis was tested to ascertain any difference between male and female nurses on influence of the use of social media on academic achievement.

**Table 6: Difference in the mean response of male and female student nurses on their academic achievement in using social media**

Source of Variation	N	X	SD	df	t	Sig.	Decision
Male	44	2.55	.186	203	.919	.361	NS

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Female                      161    2.52    .17

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$\alpha=0.05$

Table 6 above revealed result of independent t-test that there is no significant difference in mean response of male and female student nurses on their academic achievement in using social media with a probability value of 0.361 above 0.05 alpha level of significance. This implies that male and female student nurses in schools of nursing in Imo State have equal opinion that social media have influence on academic achievements, thus, improving the academic achievement of student nurses. Both male and female nurses who used social media have improved academic achievements.

### Discussion

On the extent student nurses make use of the school library, respondents in their great majority showed that student nurses utilize school libraries to a high extent. That notwithstanding the fact that little percentage ignore usage of the library on the grounds they saw it as a waste of time, majority of student nurses still maintain that it helps them to excel in their examinations and its therefore a necessity in every college of nursing in the state.<sup>6</sup>

On the extent student nurse utilize the social media, majority of the respondents from across the sample schools agreed that a high percentage of nursing students make use of social media in their academic activities and consider social media usage as a necessity in the teaching and learning process, in solving many academic problems as well as in carrying out researches. The finding seems to agree with the finding of Tuominen *et al.*<sup>7</sup> who conducted a study on social media in Nursing Education: The view of the students and found out that students already have knowledge and experience to use different kinds of social media applications in their studies. The finding was also similar with the findings of Ahmed *et al.*<sup>8</sup> who from their study on the Effects of social media on pharmacy students' academic performance posit that generally, most of the students reported a highly positive impact of social media in their academic performances.

On male and female students' academic achievements on the use of school library, majority of the respondent's male and females alike showed positive agreement on their academic achievement in using the school library. They unanimously maintained that student nurses perform better in academics when they frequently use the library and furthermore the school library enable them to concentrate more in their studies and shun distractions, excel in examinations more than non-users, encourage study group formation, positive students interactions amongst students in colleges of nursing as well as the provision of resources and services for teaching, learning and research needs of nurses and finally help students build new knowledge and vocabulary.

The above findings support the findings of Saleh and Bande<sup>9</sup> on their study on perceived impact of library and information literacy skills on the academic performance of undergraduate students in Usman Dan Fordio University Sokoto, and found out that library develops in people good reading skills and encourages long term learning habits through listening, reading and viewing a wide variety of learning resources among others though this study deferred slightly to the present study on its use of smaller target population and area of study.

These findings are somehow similar to the findings of Aiyende and Omojola<sup>10</sup> whose study on influence of social media on the academic performance of students of the University of Port

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Harcourt, Nigeria found out among others that students in the university are exposed to new information and happenings in their school and female students are more likely to be the major users of social media platforms, for they spent more time online and anything of interest to them and their studies, and that students don't only chat, but share and receive academic information such as assignments, projects with the use of social media facilities like recording, calls, video calls and status. This referenced study deferred from the present in its use of open-ended questionnaire, sample size and location of study area.

### **Conclusion**

The study has carefully surveyed the impact of school library and social media usage on the academic achievement of student nurses in colleges of nursing in Imo state. It has dealt with such concepts like meanings of library and social media and several definitions based on perspectives of varied authors and researchers. It also dealt with types of libraries and sources of social media, functions and importance of libraries and social media in the present dispensation of student nurses as well as the challenges facing them. It should be noted that students' expectations and demands of the library are reflected in their usage of library information resources and this contributes a lot to the extent in which they are creative, informed and knowledgeable.

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