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International Journal of Medicine and Medical Sciences

Full Length Research Paper

Assessment of influence of student perception, knowledge, and area of specilization on ICT utilization for academic purposes in College of Health Technology, Calabar

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Information Communication Technology (ICT) application in academics and research has come to stay. While the developed world has not only embraced ICT in academics, they have gone ahead to make teaching and learning far more simpler, on the other hand most of the developed world is still grappling with the provision of basic amenities to its citizens that the idea of ICT appears farfetched and elitist. This study was carried out to assess how student perception, knowledge and area of specialization influenced ICT utilization for academic purposes in College of Health Technology, Calabar. To achieve the objective of the study, three hypotheses were raised and tested at a 0.05 level of significance. Structured questionnaires were administered randomly to a sample of 390 students drawn from all the Departments of the College. The findings of the study revealed among other things that; from hypothesis one, there was no significant influence of student perception on the use of ICT for academic purposes (P > 0.05); from hypothesis two; student knowledge of ICT did not significantly influence the utilization of ICT for academic purposes (P > 0.05) and hypothesis three revealed that area of specialization significantly influenced utilization of ICT for academic purposes (P > 0.05). Therefore, the use of ICT for teaching and learning and the greater awareness of benefits of ICT use in academics is recommended.

Key words: Assessment, student perception, knowledge, area of specialization, ICT utilization in College of Health Technology.

INTRODUCTION

Information Communication Technology (ICT) refers to mediums that grant access to information via tele-

communication (Jim, 2012). Aina (2014) says Information Technology (IT); often times also called ICT is an

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Author(s) agree that this article remain permanently open access under the terms of the <u>Creative Commons Attribution</u> <u>License 4.0 International License</u> omnibus term that combines computer and telecommunication technology. It has to do with the technology used in handling, acquiring, processing, storing and disseminating information. In a more specific sense, ICT is used to refer to the role "unified communications" in association with telecommunication computers as well as other software, storage and audio visual appliances play in letting the user gain access or store and carryout sophisticated procedures on the net (Jim, 2012).

There is hardly any facet of human endeavor without the impact of ICT (Jibal and Michael, 2013); as individuals, organizations, associations, research bodies etc often use ICT. For over twenty years now, the use of ICT has fast become an integral part of mans daily life, greatly transforming the way, time and case of both retrieving and circulating information (Nwalo, 2013). ICT has as it is commonly said turned the world to a global village, with an ever increasing possibility of accessing a wide array of information and knowledge, equally making it possible for shared written, audio and visual information at real time in many parts of the world (Braimoh et al., 2012).

The application of ICT in academic studies has been on for quite some time in the advanced world, quickly becoming the defining factor, especially in higher education, offering students and teachers a broad base of easily accessible data (http://www.webworldbank.org, 2014). The INTEL education transformation web page asserts that -"ICT is an essential foundation of education transformation, providing the tools needed to enhance teaching and learning and support students-centered environment" learning (http://www.intel.com). The flexibility and adaptability of knowledge has been unparalleled since the introduction of ICT, though this concept is relatively recent in many parts of Africa (Vanguard newspaper, 2013). ICT penetration in Africa is still very low due to the combined factors of poverty, corruption, bad and inept leadership, lack of infrastructure and low interest (Sanjay and Monica, 2014). Bringing the matter home, it is on record that, as at June, 2013, only about 0.9% of households in Nigeria owned a personal computer, 3.6% have access to one personal computer, and 0.5% of households owned the device they use in accessing the internet and 3.1% access the internet through other means. The Federal Government of Nigeria had in 2010 launched a bold attempt to make ICT available to all tertiary institutions in the country. The first Nigerian Research and Education Network (NgREN) was commissioned by the Federal Ministry of Communication Technology in collaboration with the ministry of Education and the Nigerian Universities Commission (NUC), which is the regulatory body for universities in Nigeria. The scheme is meant to produce fast internet service to tertiary institutions while facilitating learning, teaching, research and connectivity to the global academic world (Emeka, 2014).

A study on The use of ICT in Universities; a case study

of Obafemi Awolowo University Ile-Ife, asserts that both students and teachers alike are aware of the resources available with ICT, with the electronic mail (e-mail) being the most popular resource used; however it was discovered that both staff and students still find it difficult to make efficient use of ICT due to insufficient ICT skills (Esharenana and Emperor, 2010). A related work by Braimoh et al. (2012) on "The evaluation of computer use and internet access among undergraduate Medical students" showed that proper ICT training and knowledge is still relatively low. Another work by Obuh (2010) on "Web Affinity: a study of undergraduate students in Nigerian Universities", opined that there is relatively low level of skillfulness in the use of ICT among students of Nigerian Universities; though students spend more time on the web, they most often patronize non academic websites.

As the use of ICT by students increasingly becomes an area of interest by many researchers, several factors can be advanced for why the ICT will continue to gain popularity amongst students as the years go by. Some of the factors amongst others are the ease of getting information, convenience and availability of varied materials on a particular topic (Burton and Chadwick, 2000). Studies have shown that many students in technologically advanced countries depend almost entirely on internet sources for their research (Burton and Chadwick, 2000). The college of Health Technology, Calabar was used as a case study in this work, having two functional cyber cafes which provide services to staff and students at moderate charge; it equally has a functional e-library. This study was necessitated by a dearth of research on the use of ICT among students of monothecnics, especially in institutions with a health bias like the College of Health Technology. This study therefore aimed at determining the use of ICT for studies among students of College of Health Technology, Calabar, as a window to a boarder picture of what may apply with other Colleges of Health Technology.

Objective of study

The following are the objectives of the study:

1. To examine the perception of students on the use of ICT for academic purpose in College of Health Technology, Calabar.

2. To ascertain the level of students knowledge in application of ICT to studies among students in College of Health Technology, Calabar.

3. To find out the extent to which area of specialization influences the utilization of ICT among students of College of Health Technology, Calabar.

Hypothesis

The following are the research hypothesis of the study:

Department	Total sample selected
Health Information Management	83
Medical Laboratory Science	66
Community Health	128
Environmental Health	86
Public Health	7
Pharmacy	20
Total	390

Table 1. Breakdown of the sample distribution.

Table 2. Showing method of sample stratification.

Department	Total sample selected	Sample=40% of population
Health Information Management	208	83
Medical Laboratory Science	166	66
Community Health	336	128
Environmental Health	214	86
Public Health	17	7
Pharmacy	50	20
Total	991	390

1. There is no significant influence of student perception on the use of ICT among students of College of Health Technology, Calabar.

2. That student do not have knowledge in the application ICT among students of College of Health Technology, Calabar.

3. There is no significant influence of area of specialization in the application of ICT among students of College of Health Technology, Calabar.

METHODOLOGY

The design adopted in the study was the survey design. The design consisted of series of questions which people were asked to respond to. The purpose of the survey was to access the general opinion, perception and feelings in a particular phenomenon. This design was chiefly effective in gathering data on the condition and circumstances that existed in the study for broad generalization. The sample of the study consisted 390 subjects drawn from 6 Departments of the College of Health Technology, Calabar. The breakdown of the sample distribution to the different departments is given in Table 1. The sampling techniques adopted in the study were simple random sampling and stratified random sampling techniques. The sampling was adopted to give the subject equal representation in the study. The stratification was based on the various departments and 40% of the subjects were selected for study; giving a total of 390 (Table 2). The instrument adopted for the study was a set of structured questionnaires consisting of 23 items. The questionnaire was a two point scale which was used for data collection divided into three sections. Section A covered demographic data; section B covered questions on perception of students while section C covered questions on knowledge of the subject matter.

The instrument was distributed to 390 students from six

Departments in the College of Health Technology, Calabar. The instrument was given face validity to ascertain its ability to accurately measure what it was intended to. The validity of the instrument was determined through consultation with an expert in research measurement and evaluation who modified the instrument and certified that he instrument was valid for use. The reliability of the instrument was established using Test-retest reliability estimate using 30 students. The reliability coefficient ranged from 0.59 to 0.60, meaning that the instrument was reliable and high enough for use in the study. The data collected were analyzed using independent t-test analytical technique. Forty percent (40%) of each department was used as the sample population. The data were analyzed at 0.05 level of significance. The Table 3 shows the perception of students on ICT utilization expressed in percentage.

Hypothesis one

There is no significant influence of student perception on utilization of ICT in College of Health Technology, Calabar. Question four in the questionnaire which states that: do you think ICT is a relevant tool for academic work was used for the analysis and the results are shown in Table 4. Therefore, since t-calculated value of 1.12 is less than t-tabulated value of 1.97, the null hypothesis is accepted thereby rejecting the alternative. This means that there is no significant influence of student perception on the use of ICT in College of Health Technology, Calabar.

Hypothesis two

That student's knowledge of ICT did not influence the utilization of ICT in College of Health Technology, Calabar. Question one in the questionnaire which states that: Do you use the internet for purposes of solving assignments, developing notes, preparing for exams and writing of research projects, was used for the analysis and the result are shown in Table 6. Following is a table showing

Department	Positive %	Negative%
Health Information Management	60	23
Medical Laboratory Science	40	26
Community Health	90	44
Environmental Health	56	30
Public Health	5	2
Pharmacy	15	5
Σ	237	153

 Table 3. Perception of Students on ICT utilization.

Table 4. Results of analysis of Student Perception on ICT Utilization.

Students' perception	n	Mean	SD	t-cal value	t-critical value	p.cal value
Positive perception	237	2.78	1.02	1.12	1.07	0 5 4 4
Native perception	153	2.90	1.03	1.12	1.97	0.544

Not significant at 0.05 level of significance, critical t=1.97, df=388.

Table 5. Student Knowledge of ICT Utilization measured in percentage.

Department	Knowledge %	Not knowledgeable %
Health Information Management	60	23
Medical Laboratory Science	40	26
Community Health	90	44
Environmental Health	56	30
Public Health	5	2
Pharmacy	15	5
Σ	237	153

Table 6. Results of analysis of Influence of Student Knowledge of ICT on ICT Utilization.

Knowledge of ICT	n	Mean	SD	t-cal value	t-critical value
Knowledge	237	2.88	1.02	1 40	1.07
No Knowledge	153	3.28	3.20	1.49	1.97

Not significant at 0.05 level of significance, critical t=1.97, df=388.

Students knowledge of ICT Utilization measured in percentage. Table 5 shows that community Health Department had more students knowledgeable in ICT use, followed by Health Information Management, while Public Health Nursing had the least Students knowledgeable in ICT use. Therefore, since t-calculated value of 1.49 is less than t-critical value of 1.96, with 388 degree of freedom. Hence the null hypothesis is upheld that Students knowledge of ICT does not significantly influence the utilization of ICT in College of Health Technology, Calabar.

Hypothesis three

There is no significant influence of area of specialization on the use of ICT in College of Health Technology, Calabar. The demographic

data section A number 3 of the questionnaire which has to do with area of specialization and question one of section C which states that: Do you use the internet for purposes of solving assignments, developing notes, preparing for exams and writing of research projects, were used for the analysis and results are shown in Table 7. Results from hypothesis 3 reveal that area of specialization significantly influenced the utilization of ICT by students in the College of Health Technology Calabar, since the calculated F-ratio of 9.184 was greater than the table F-ratio of 2.21.

RESULTS AND DISCUSSION

Findings from hypothesis one showed that there was no

Area of specialization	n	Ν	lean	;	SD
Health Information Management	83	17.20		4.55	
Medical Laboratory	66	1	7.80	4	.62
Community Health	128	1	8.10	5	.62
Environmental Health	86	16.62		4.91	
Public Health Nursing	7	10.50		3.61	
Pharmacy	20	12.00		2.66	
Σ	390				
Source of variance	SS	df	Ms	F	sig. of f
Between group	34.914	5	6.98	9.184	0.660
Within group	296.00	384	0.76	-	-
Σ	330.914	389	-	-	-

Table 7. Influence of Area of Specialization on ICT use.

significant influence of student perception of Information Communication Technology (ICT) on the use of ICT in the College of Health Technology, Calabar. This was shown by the fact that the t-calculated value 1.13 was less than the t-tabulated value of 1.97 at 0.05 level of significance. This finding implied that ICT utilization for academic purposes goes on irrespective of what perceptions the students may have about ICT. This finding was supported by Fabunmi (2012) who showed that though students perceived ICT sources as expensive as compared to book sources, it did not influence their usage of ICT sources. However, these findings did not agree with that of David et al. (2012) and Benga et al. (2012) who pointed out that there was a clear relationship between student's perception of ICT and its eventual use.

For hypothesis two, the finding showed that students' knowledge of ICT did not significantly influence the utilization of ICT in the College of Health Technology, Calabar. This can be seen in the fact that the t-calculated value 1.49 was less than the t-critical value of 1.97. This finding was at variance with the finding of Anunobi (2008) and that of Shakeel et al. (2011), which agreed that it was needful to familiarize students with the use and workings of computers and related social and ethical issues; knowing that access to online information like e-book and e-journals can improve students' learning through ICT.

Findings from the third hypothesis showed that there was significant influence of area of specialization in the application of ICT to academic work. This was shown by the fact that the calculated F-ratio of 9.184 was greater than the table F-ratio of 2.21. This finding agreed with that of Ajuwan (2003) who showed a strong relationship between area of specialization and course of study with the use of ICT. The pattern generally pointed the fact that students were more inclined to using online sources where the need was emphasized. There is an aspect of basic knowledge of computer use, awareness of the importance of ICT and the availability of internet services, playing a pivotal role in appreciating ICT application in

academics (Fade and Samuel, 2009).

RECOMMENDATIONS

Computer awareness and education at all levels should be encouraged while the application of ICT in academics, including in teaching and learning should be emphasized, especially for students in Colleges.

CONFLICT OF INTERESTS

The authors have not declared any conflict of interest.

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Full Length Research Paper

People healed of Ebola and their psychosocial life: About 55 cases at the Donka treatment center (Conakry)

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Ebola virus disease (EVD), formerly known as Ebola hemorrhagic fever (EHF), is often a severe and fatal disease. The objective of this study is to identify the psychological and social problems as well as the needs of people cured of Ebola. This work is a prospective, cross-sectional, descriptive study done within a period of three months, from 16 November 2014 to 15 February 2015. The population of this research consists of those who were infected by and cured of Ebola; they were 18 years and above and were both males and females. They have received treatment at Donka (CET) and are members of those affected and healed in Guinea (A.PE.GU.AEG); they were in Conakry during the study period and gave their consent to participate in our study. Of a total of 72 members, 55 (76.39%) met the inclusion criteria of this study. The average age was 29.9 ± 11.33 years [18-66 years] with a male predominance, sex ratio = 1.2. The average duration of isolation was 16 days with extremes of 6 and 25 days. The main psychological disorders experienced by people healed of Ebola are: fear, 85.45%; revivability, 43.64%; nightmare, 63.64%; stress, 56.36%; anxiety, 49.10%; insomnia, 45.45%; withdrawal, 43.63%; insomnia, 45.45%; distrust, 41.82%; discouragement, 41.82%; and those that want to die, 41.82%. On the social level, stigmatization from the neighborhood was 90.91% and distrust 58.18%. This study shows that people infected by and cured of Ebola suffer many psychological and behavioral disorders. Stigma and distrust are the major social problems.

Key words: Ebola, psychosocial lived, Donka, Conakry.

INTRODUCTION

Ebola virus disease (EVD), formerly known as Ebola hemorrhagic fever (EHF) is a severe and fatal disease. The Ebola virus was first identified in 1976 at Zaire during an outbreak of hemorrhagic fevers. Since then, thirty outbreaks have been reported, most of which are limited in scope because it was restricted to remote forest areas in Central Africa. From December 2013, West Africa has faced the largest and most complex outbreak of Ebola ever recorded, and one of the first to reach the urban centers with high population density. Guinea, Liberia and Sierra Leone are the most affected countries (Bruyand et al., 2014).

Human transmission of the Ebola virus is primarily linked to direct or indirect contact with blood and body fluids (WHO, 2014). The virus was detected in blood, stool, vomit, urine, saliva, seminal secretions, breast milk, tears and sweat of infected individuals (Bruyand et al., 2014; Bausch et al., 2007; Formenty et al., 2006). Transmission can also occur through direct contact with infected animals or material. Lethality of the virus is between 40 and 90% and this depends on the epidemic conditions and time of care. Currently, there is no specific treatment that has proven effective, but treatment and experimental vaccines are being evaluated (Bruyand et al., 2014).

Psychosocial problems arising in emergency situations are closely linked, but can predominantly b be social or psychological in nature (Inter Agency Standing Committee, Reference Group for Mental Health and Psychosocial Support in Emergency Settings, 2010). Ebola outbreaks are events that generate anxiety, fear and even panic. Individuals, families or entire communities may be affected (WHO, 2014).

The disease first occurred in December 2013 in Guinea, and was officially declared in March 21, 2014. This announcement created an effect of surprise and panic among the general population, both those healthy and sick and this is because of the nightmarish rumors causing a psychosis with anxiety and distrust that was almost permanent.

The objective of this study was to identify the psychological and social problems as well as the needs of people cured of Ebola.

MATERIALS AND METHODS

This work is a prospective, cross-sectional, descriptive type of study done within a period of three months, from 16 November 2014 to 15 February 2015. The population of this research consist of those infected by and cured of Ebola; they were 18 years and above, and were males and females. They received treatment at Donka (CET) and are members of those affected by and healed of Ebola in Guinea (A.PE.GU.AEG); they were in Conakry during the study period and gave their consent to participate in our study. Those cured of Ebola who did not provide any information on the survey sheet were not included. Data were collected by a doctor undergoing house function from an anonymous questionnaire in strict confidentiality. The analysis of the variables was made by EPI Info 3.5.1.

RESULTS

Of a total of 72 people cured of Ebola, the respondents included with the inclusion criteria were 55 (76.39%). The

socio-demographic characteristics on the average age, sex and occupation of persons cured of Ebola are reported in Table 1. Health districts of people cured of Ebola are contained in Table 2. The information sources for people cured of Ebola before the epidemic are reported in Table 3. Table 4 shows the data on the duration of isolated people cured of Ebola. Psychological and behavioral problems of people cured of Ebola are reported in Table 4. The neighborhood attitude towards people cured of Ebola, after their isolation in CET, is reported in Table 5.

DISCUSSION

This study comprises the psycho-social experience of people in Guinea cured of Ebola. This study has limitations as regard the small number of inclusion and its short duration. However, it is still useful because it allows us to investigate some problems faced by people cured of Ebola and paves the way for other such studies on a larger scale.

The sociodemographic characteristics of people cured of Ebola in this study are those of young males and mostly those from the health district of Coyah. These results interprets that Guinean population is predominantly consist of young population. The majority of people cured of Ebola did not know this disease prior to the outbreak. Indeed, the lack of information and ignorance of the disease can lead to rumor and psychosis in the population. Those who had some information about the disease got it from television, internet, radio and newspapers, which are not accessible to everyone in our context of resource-limited countries. In our modern world, the press is very interested in the management of epidemics, particularly when it comes to The establishment of effective Ebola outbreaks. communication with the media is very important in the management of Ebola outbreaks. (WHO, 2014)

Majority of the people cured of Ebola (51%) had an isolation period of between 15 to 21 days in CET with an average duration of 16 days (6 to 25 days). Indeed, the regression of clinical signs and negativity of a blood test PCR were required for the discharge of patients with Ebola CET.

The isolation management of Ebola patients must be conducted on a voluntary basis by the patient (or his family, in case of incapacity of the patient), with their consent and cooperation. The involvement of the patient in the decision making shows respect for the patient, which helps to promotes autonomy and improve cooperation with the medical team. It is indeed rare that people who were well informed about the pros and cons

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Characteristics	Staff (N=55)	Proportions (%)
Average age (years)	-	30 ± 11 (18 - 66)
Sex		
Male	30	55
Female	25	45
Profession		
Health workers	10	18
Pupils/students	15	27
Teachers	5	9
Merchants	13	24
Household	2	4
Workers	10	18

 Table 1. Breakdown by socio-demographic characteristics
 of the 55 people cured Ebola in Donka CET.

Table 2. Distribution by health district from 55 peoplecured Ebola in Donka CET.

Health District	Staff	Proportions (%)
Kaloum	2	4
Matam	5	9
Dixinn	8	14
Ratoma	12	22
Matoto	9	16
Coyah	14	25
Dubréka	1	2
Forécariah	1	2
Dabola	2	4
Kérouané	1	2
Total	55	100

Table 3. Distribution sources of information on Ebola 55people cured Ebola in Donka CET Sources of informationEmployees Share (%).

Sources of information	Effectifs	Proportion (%)
Radio	7	13
Television	8	14
Newspapers	6	11
Internet	8	14
Never heard	39	71
Other *	5	9

*School (1) Service (1), talks (3).

of the Ebola management refuse care.

Taking good care of those infected with Ebola is a way of assuring and building trust in the populace. Sometimes, though every reasonable effort has been

Table 4. Distribution by isolation duration of 55 people curedEbola in Donka CET.

Isolation duration (days)	Staff	Proportion (%)
≤ 7	1	2
8-14	20	36
15-21	28	51
≥ 22	6	11
Total	55	100

Average length = 16 days (6-25 days).

made, some patients do not want to be supported in an isolation center. If, in rare individual cases we judge that isolation under duress is the only reasonable way to protect the public, it is essential to ensure that the measure be implemented in compliance with ethical principles and human rights (WHO, 2014).

Some of the psychological disorder in some people healed of Ebola is fear, renaissance, nightmare, stress, anxiety and insomnia accompanied by withdrawal, insomnia, distrust, discouragement and longing to die. The occurrence of these disorders can be explained in part by the high lethality among confirmed cases of Ebola and secondly, by the stigmatization of people cured of Ebola. In the African context, suicidal desire may arise when the person fails to speak out, permits evil thought and refuses to eat or receive appropriate care. Although these situations may affect everyone in same way, people react differently. They may feel overwhelmed, confused or may not have an understanding of what is happening. They may experience fear or anxiety, or feel paralyzed and cut off from reality. Some people may have mild reactions, while others may have stronger reactions. Generally, the way each person responds depends on many factors, which include: the nature and severity of the event; previous experience of stressful events; environmental support; physical health; personal and family mental history and health issues; culture and traditions; and age (WHO, 2014).

The neighborhood terms to stigmatize and mistrust those cured of Ebola. This stigmatization affects both health professionals and patients alike because they are seen as vectors of the virus and thus are avoided (United Nations, 2014). Communities can be severely affected by the Ebola virus disease in several ways: people are separated from their families, due to illness or death; health care providers are generally overwhelmed and stressed; those infected by Ebola may be vulnerable to social stigma, worsening their distress and isolation; the whole communities experience the fear and suffering is caused by an epidemic (WHO, 2014). People's fear of Ebola health facilities and having direct contact with the medical staff could increase the spread of the disease. From the early stage of Ebola, stigmatization should be handled, if we want to win the battle on all fronts.

Psychological and behavioral disorders	Staff	Proportion (%)
Stress	31	56
Fear	47	85
Anxiety	27	49
Mistrust	23	42
Withdrawal	24	44
Feelings of discouragement	23	42
Nightmare	35	64
Restore Life	40	73
Want to die	23	42
Insomnia	25	45

Table 5. Distribution	psychological	and	behavioral	disorders	of	55 people	cured
Ebola in Donka CET.							

Table 6. Distribution by the attitude of the neighborhood after the isolation of 55 people cured Ebola in Donka CET.

Neighborhood attitude	Staff	Proportion (%)
Mistrust	32	58
Stigmatization	50	91
Moral support	20	36
Financial support	13	24

Interventions should be put in place to eliminate the fear of transmission, which is often the cause of stigma. It would bring to communities and individuals adequate information on the transmission format, and support mechanisms to those already infected with the virus. (United Nations, 2014)

During Ebola outbreaks, public health operations are essential but must be complemented by social interventions and mental health. To ensure that appropriate social interventions are implemented, the health professionals and mental health personnel must work together with other social workers, teachers, village chiefs, religious leaders, child protection networks, women's groups, social services, media, communitybased organizations, and traditional healers (WHO, 2014). Information and appropriate advice on general measures of protection against the disease should be provided to the populace. Otherwise, the foundations of social cohesion could be undermined by stigma and isolation from the community, which represents a factor of instability in the affected areas and their immediate neighborhoods (WHO, 2014).

Conclusion

This study shows that people infected by and cured of Ebola suffer many psychological and behavioral disorders. Taking systematic psycho-social care of patients in isolation is necessary, as well as their postisolation, by monitoring them to ensure their social reintegration.

CONFLICT OF INTERESTS

The authors have not declared any conflict of interests.

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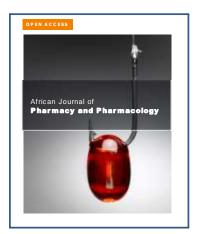
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