

THE CONTRIBUTION OF LIBRARIES TOWARDS INFORMATION PROVISION AMIDST COVID-19 PANDEMIC IN NIGERIA

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Abstract

This paper explores the contributions made by libraries in information resource provision during the COVID-19 pandemic which began at the end of 2019. Measures advocated for by public health experts have had a global impact on all activities. Libraries have resorted to using technology and communication channels that uphold measures to ensure continuity of services. Libraries have also had to tailor their content and services to address the public need for information about the pandemic and resources to facilitate research. This research collected qualitative data using a content analysis tool. The data was obtained from online through social media response and via email of 12 libraries from the 6 geopolitical zones of Nigeria and analyzed to create themes from the content and determine how the libraries are contributing to the COVID-19 response by providing resources for information. The research findings illustrated that libraries have played a vital role in the provision of valid information to the public, researchers, and health officers, continuity of learning, raising public awareness, emphasizing the need to follow the public health measures, and overall provision of a platform to keep the public engaged even as they stay at home.

Keywords: libraries, information provision, Covid-19, Pandemic, Nigeria.

Introduction

The COVID-19 is a global pandemic announced at the end of 2019 by the World Health Organization (WHO). Furthermore, the infection is new and hardly any information about it existed prior to the pandemic, requiring researchers to work around the clock in finding out more information about it. Consequently, it has led to the adoption of strategies and measures to curb its spread and contain it, hence, affecting the normal way of life and social interactions. Some of the measures taken by states are staying home to enhance social isolation and distancing, and to maintain overall hygiene thereby protecting one's self and other people from getting infected.

Social interaction places, including libraries, have been closed in adherence to the public health measures. Libraries collect information sources and provide the resources through different channels to the public, who either needs such resources for education, information, or personal knowledge and development.

On 17 March, 2020, the National Library of Nigeria (NLN) recommended the closure of all its branch libraries since they did not have the capacity to enhance social distancing and other public health measures (APL, 2020). They have had to devise ways of conducting their operations virtually. Hinchliffe and Wolff (2020) stated that libraries had to rely on real-time data and observe actions taken by other libraries to continue with operations. In the United States, institutions of higher learning moved to e-learning and virtual working environment (Hinchliffe and Wolff (2020). The two authors of this article (Hinchliffe and Wolff (2020) started a live survey where libraries and librarians suggested strategies that they were employing to ensure continuity of services. The survey is still ongoing and its main aim is to provide real data for libraries to learn from each other about effective continuity strategies. Since the Corona virus is a virus that was previously not known, the public is constantly looking for information released by public health officials and researchers (Wang & Lung, 2020). Information is a direct input in the fight against the virus. Public health officials seek information to be able to set the measures to be followed in line with stopping the spread of infections. The uncertainty revolving around the pandemic has made the public seek more information about it to reduce anxiety levels.

According to Wang and Lund (2020), one successful way of handling pandemics is by availing information to the public and using social media for advocacy and outreach. Moreover, the public adheres better to the measures when they have information on the pandemic and

researchers are able to dig for more data. However, with technology and diverse communication channels, there is a thin line between sharing and access to valid and invalid information (Nitecki & Davis, 2017). Libraries are offering remote and virtual services that reach more people compared to when they are operating from a physical location. One of the advantages of relying on library information is that it has gone through different reviews before being released to the public, which makes it more reliable.

Ultimately, due to the extent of this global pandemic, governments have called upon everyone to play a part in creating awareness about the pandemic. The aim of this research is to identify ways in which libraries have contributed to the global response and fight against the Corona virus pandemic by meeting the information needs of various stakeholders.

Statement of the Problem

Academic library role of facilitation and support have been altered by the unsolicited COVID-19 pandemic and the resultant stay at home globally. Services offered by these organs of tertiary institutions were halted. It became uncertain when the pandemic will be over and obvious to come up with measures to curb the menace it is likely to create such as expanding gaps of existing poor access to information and causes of ignorance. Use of social media is among the new platforms that facilitate dissemination and interactive services of the new normal during the COVID-19 era. Institutions of learning and research needed to be salvaged, and organs such as academic libraries are failing in their statutory responsibilities which should not be allowed to persist. This study is a report of our shared experience of an academic library during the covid-19 pandemic in Nigeria.

Objectives of the Study

The main objective of this paper is to examine the contribution of libraries toward the provision of information during the COVID-19 pandemic. The specific objectives are to:

1. Find out the disseminated resources and sources of information for the users of the libraries
2. Identify the specific role played by libraries in alleviating the pandemic crises
3. Identify challenges and opportunities for libraries during the COVID-19 Pandemic

Literature Review

Role of Libraries in Pandemics

According to Feather et al. (2012), libraries provide information on the pandemic to raise public awareness. The study also states that the availability of relevant information during pandemics helps in reducing anxiety among the public, which is important in the prevention of new infections. Knowledge from various research materials is crucial in helping public health officials come up with prevention measures. Wang & Lund (2020) conducted a similar study on the role of libraries in pandemics and found that libraries are fundamental sources of reliable information during the COVID-19 pandemic. In the study, the authors highlight that libraries are in a better position to gather, evaluate, publish, and share information with the public because of reliability, knowledge, and experience in conveying information without causing panic or anxiety. Majid and Rahmat (2013) agree that when information is availed in a timely and accurate manner during pandemics, it helps in containing the spread. They conducted a study on the H1N1 pandemic in Singapore and found that the public was in need of valid information on the outbreak and they searched for the information to take precaution and stay vigilant. However, a major challenge was that most of the participants could not understand some of the terms used

during public communications making them search for more information on the Internet where Google trends came in handy.

Wang & Lund (2020) say that librarians are trained to teach the public on how to tell credible sources from non-credible ones and valid information from invalid data. Ma et al. (2018) support the statements and add that due to the handling of information, which includes interactions with publishers for most of their career life; librarians are in a better position to advice on the credibility of sources. Feather et al. (2012) equally emphasize the credibility of information dispersed to the public domain. Majid and Rahmat (2013) also highlight that libraries form a multi-stakeholder society since they are involved in all sectors and perform tasks to streamline processes in these sectors. Allen and Taylor (2017) added that they work alongside different people to deliver services in the private and public sectors. Ma et al. (2018) agreed with the findings and conducted a similar study by examining 268 articles on health information professionals' roles. The findings from the study show that libraries are collaborating with researchers and play the role of research assistants and outreach agents to communicate research findings to the public. Researchers are working to find a vaccine and treatment for COVID-19 and libraries are playing an important role in availing required information to facilitate the study and publishing the findings from the research availing it to the public. According to Latif et al. (2013), databases are proving information on COVID-19 to create public awareness. The study adds that users are able to access library services, such as electronic books, to keep them busy during the pandemic period reducing their anxiety and psychological effects of the change in lifestyle. Allen and Taylor (2017) similarly had found that libraries provide e-learning platforms. Due to the closure of schools, the library has been resourceful in allowing students to continue

with their studies from home and learn new skills thereby combating boredom. Consequently, it is evident that libraries are very resourceful during pandemics.

Challenges and Opportunities for Libraries during the COVID-19 Pandemic

Public health measures taken to contain the spread of COVID-19 presented both challenges and opportunities to libraries. According to the International Federation of Libraries Associations and Institution IFLA (2020), one of the main challenges faced was the decision to restrict services or close the libraries, which needed to be done while considering the risk involved in each of the moves. The libraries had to come up with effective communication strategies that would meet the needs of their users and also conveniently reach the general public. Libraries Connected (LC) (2020) stated that the challenge revolving around the uncertainty of the duration of closure made it necessary for the libraries to come up with strategies to prevent discontinuity of their services.

Another challenge that libraries are still facing since their closure is the lack of funds to make the transition (LC, 2020). According to LC (2020), some libraries have had to close completely because they only had physical systems in place and transitioning to the virtual system would require a lot of funds. The author categorizes the funds into software purchases, technology devices to support the learning, personnel to run the devices and access to electronic books, and the rights to share them online. However, to address this, some publishers have been lenient on their copyright issues to enable libraries to get more e-books and share them. IFLA (2020) agrees with this challenge and states that some of the libraries have received donations from the public to improve their technical capacity to start running virtually. IFLA (2020) adds that another challenge was the decision on what services to offer and how they were to offer them while adhering to the public health measures. Mainly, the challenge arose due to the

unanticipated nature of pandemics since libraries had no time to get public opinion on it. However, the Association of Research Libraries (2020) notes those libraries have been able to mitigate this challenge by networking and using social media to get public opinion. From the article, libraries post content on the current COVID-19 situation, the importance of theme assures and guidelines given by the health sector, and symptoms of the infection.

Libraries also face the challenge where most people do not have access to a stable internet connection; hence, they are still locked out of the online services offered by libraries (Nitecki and Davis (2017). Governments have to partnering with data service providers to offer data at subsidized rates and it will help some people access the services. ARL (2020) notes that following the closure of schools, institution libraries had to also be closed.

The measure presented an opportunity for online learning. Consequently, institution and research libraries are offering virtual support to school faculties and students on e-learning guidance and selection of resources. IFLA (2020) made a similar finding and observed that most institution libraries already had e-learning platforms that were not very popular. However, the institutions' transition to e-learning initially faced criticism from different stakeholders but has been accepted after the uncertainty of how long the situation would last.

The African Library and Information Associations and Institutions (AFIA) (2020) have diversified opportunities by providing links to platforms that provide online services. According to the article, libraries are providing information on the use of virtual platforms for meetings, which has facilitated workplace operations following the work-from-home safety measures. AFIA also provides links to free content on COVID-19 and highlights that sharing is one way of solving the pandemic. According to AFIA (2020), libraries should provide equal opportunities to all, hence the need to update people of arising issues, such as closure or availability of online

services to the public. Libraries have also been presented with the opportunity to use virtual exhibitions and e-books promoting digital content and activating their websites to be able to offer the service. The Association of Research Libraries (ARL) (2020) agrees that technological advancements have made the transition easier. ARL (2020) notes that research libraries are partnering with researchers, governments, and public health institutions to ensure that the information they give is available to the public and they can access it for future reference. Another opportunity highlighted by ARL (2020) is that libraries are able to increase their number of users by increasing popularity using social media where users share the information that has been posted.

To support the transition to the online environment, the Public Library Association (PLA) (2020) held a webinar meeting where participants were taught how to use different software and technology to facilitate working from home. Library personnel have become more creative, innovative, and developed a collaborative spirit in sharing and implementing strategies, which has contributed to the success of the new systems. According to (Jango, 2020), Canadian libraries have found a good opportunity to train the public on the use of online library services. The article further says that the first step taken by the library was to increase public communication on the steps they were taking to be able to provide virtual services. The libraries have experienced an increase in usage after they started providing online services. According to Nitecki and Davis (2017), libraries have also increased their presence on social media by means of outreach strategies on the pandemic and providing platforms to raise charity funds for the affected. An example is the Orange County Public Library which has been experiencing an increase in the number of orders for books by mail than prior to the pandemic.

The University of Ibadan Library already had virtual systems in place but due to the current demand for services, they are working on adding the online inventory available to the public (Hamilton, 2020). Libraries are also providing psychological relief to those affected by enabling them to spend their time on the e-learning platforms or access their favorite pieces of literature (Next City, 2020). Some library websites are sharing job vacancies and offering entrepreneurial courses in relation to the people who have lost their jobs (Hamilton, 2020). Murphy (2007) states that pandemics present opportunities for libraries to work together with publishers to ensure that resources are available to the public.

The statement is supported by LC (Libraries connect, 2020) where he identified that libraries are collaborating with publishers for the relaxation of copyright rules to enable them to have access to and share more electronic books. According to Boston (2020), libraries should be included in development frame works because they provide information resources that constitute the guidelines. In getting a vaccine or treatment, Ogunberi et al (2018) mentioned that they collaborate with researchers and deal with the publication and dissemination part of information.

Methodology

The research was conducted between May to October, 2020 using a qualitative content analysis of the information posted by different libraries after their closure about anything regarding COVID-19 and prevention measures taken. The methodology takes a qualitative approach because the data is not numerical and is in the form of texts. Qualitative analysis allows the researcher to arrange and identify themes, as well as group the responses or text according to the themes, and draw conclusions from the data. The method is preferred in this study because the data is already readily available from the online services like email and social media via Whatsapp and it does not require approval to access or use it (Erlingsson and Brysiewicz, 2017).

The method allowed for a systematic way of analyzing the data and assisted in making conclusions from the content (Wilson, 2016). The data was collected from 12 public universities that were chosen using simple random sampling by choosing from the list of public universities in Nigeria.

Table 1. *Public Universities in the Study*

S/N	Library	Location	Zone
1	University of Ibadan library	Oyo State	South West
2	University of Lagos library	Lagos State	South West
3	University of Portharcourt library	Rivers State	South South
4	Rivers State university library	Rivers State	South South
5	University of Nigeria Nsukka library	Enugu State	South East
6	Enugu state university of science and technology Library	Enugu State	South East
7	Federal university of Technology Minna	Niger State	North Central
8	University of Agriculture Makurdi	Benue State	North Central
9	Ahmadu Bello university library Zaria	Kaduna State	North West
10	UsmanDanfodio university library	Sokoto State	North West
11	ModibboAdama university Yola library	Adamawa State	North East
12	AbubakarTafawaBalewaUniversity library	Bauchi State	North East

Results and Discussion

The themes identified from the content analysis are information on the closure, provision of online materials, guidance on how to use virtual library platform, and information on how to use virtual meeting platforms, as well as statistics on COVID-19, measures of the public health officials, symptoms of COVID-19, and emergency contacts to reach the COVID-19 response teams.

Table2. Themes identified from content analysis and percentage of websites where they are demonstrated,

1	Information on closure	63%
2	COVID-19 statistics	15%
3	Symptoms of COVID-19	53%
4	Measures by Public Health Officials	58%
5	Emergency COVID-19 response team contacts	39%
6	Guidance on how to use virtual library	58%
7	How to use virtual meeting platforms	48%
8	Information of provision of online services	78%

From the results, most of the themes have been highlighted by over 50% of libraries. The least implemented themes are the availability of COVID-19 statistics and posting the emergency response contacts with the content being posted by less than half of the libraries. The highest number of libraries informed the public of the availability of online services and the closure of the library. The safety measures published by all the libraries are social distancing, washing hands to maintain hygiene, and wearing masks in public. Some of the libraries have gone the extra mile of using images to emphasize these safety measures. The information on the use of the virtual library helps the users' access easily. The libraries that have information on virtual meeting platforms have given procedures for Google Meet and Zoom installation. Judging from the results, it is apparent that the libraries have taken the initiative to contribute towards the global response to the corona virus.

According to the study, updated websites show that libraries are using the online platform for communications more than before. The finding is supported by similar findings from

literature by Nitecki and Davis (2017) and Katooyon and Abrizah (2017). Communication using the website platform also shows that a high percentage of people in the 21st century are tech-savvy and would take the initiative of checking the website often. The libraries have provided information about the COVID-19 pandemic, which includes the statistics, symptoms, prevention measures, and emergency response contacts. With the help of such information, the library is able to connect with the public since the pandemic is a global issue and everyone is talking about it. Ongunbeni et al. (2006) had highlighted that this move helps libraries stay relevant during this time and create awareness on the issue. Awareness is also created when visualizations' are used to emphasize the importance of washing hands, wearing masks, and social distancing. Since libraries pass information to reduce panic and anxiety as mentioned by Wang and Lund (2003), publishing of the COVID-19 statistics alarms the public. Information on statistics is better communicated by the Centre for Disease Control or Health Ministries. The libraries that are partially open have highlighted the measures they are taking to ensure the safety of users and their staff. Some of the libraries have also posted tutorials on virtual library access to ensure everyone has an equal chance of accessing materials.

The finding signifies AFIA's (2020) statement on libraries upholding the equality virtue. Posting the tutorials is also part of giving guidance and is one of the areas that librarians are trained in as highlighted by (2020). There is also evidence that the institutions have taken the initiative to take up online services. ARL (2020) had stated that libraries have become more innovative and this is an example of the starting to change. In addition, it is clear that libraries are multi-stakeholders as illustrated by Allen and Taylor (2017) because they follow government directives and have the interest of the people in mind when publishing information on their websites. The training of the public on virtual meeting platforms is of benefit since most

companies have asked their employees to work from home. The move also illustrates the diversity in services offered by libraries and their flexibility during the pandemic, which highlights their societal approach to addressing issues as mentioned by Latif et al. (2013). In comparison to the response during the HINI pandemic, there is a great difference due to technological advances and more developed cohesiveness among systems and people, which were not very defined in the study by Majid and Rahmat (2013). The findings show that libraries have made significant contributions in creating awareness, finding alternative ways of continuing with activities by means of online services, guiding the public on virtual platforms, and publishing research content in the global response against the Corona virus pandemic.

Recommendation

The following recommendations were made from the findings of the study:

1. The demographic element accessible from the Telegram group was shallow, it is pertinent to expand it in order to help the library obtain demographic constructs that can be used to underscore stakeholders, the information dispersed to them and categorize the response according to their status as well as aid decision making. Particularly to be included should be patrons status (staff, (academic or non-academic staff), student (undergraduate or postgraduate), community, faculty, and department.
2. The dissemination of information sources and resources on the Telegram group did not include large number of links to the institutional repository. It is recommended that there should be Within the confine extensive use of the repository for the dissemination of information since it cater for faculties, departments and fields of specialization in the university, and also for the fact that it is the centralize storage of all types of institutional output, including unpublished

literature, it could also enable the library to keep track of, and analyze research performance of the library stakeholders of creative commons and digital management systems.

3. As library services are extensively integrating and migrating onto several social media platforms, it is obvious that provision of ubiquitous services (virtual) cannot be ignored. Therefore, it is recommended that electronic gadgets that support social media platforms be acquired and data be subscribed for the purpose of the prescribed library function it was designate to achieve.

Conclusion

Overall, libraries have proved to be at the fore front in the global response against the COVID-19 pandemic and other previous pandemics. In every crisis or pandemic, there is a need for information resources regarding new developments, communication from health officials and researchers, and policies by governments. However, the contribution of libraries in the wake of COVID-19 goes beyond the provision of information related to the pandemic. They have created public awareness and have raised literacy levels among the public concerning the pandemics and also have given detailed information on the prevention measures to be taken. Libraries have also become one innovative and flexible increasing use by more people who were previously not able to access the services due to constraints of time and space.

The role played by libraries is not only limited to the public at risk of infection but is also accessible to people in quarantine facilities as they keep themselves engaged and up-to-date with resources on COVID-19. Moreover, even with the closure of libraries, librarians have updated online resources, virtual programming, and online renewal services to serve the public. People are also aware of the symptoms to look out for from the content on some library websites and the contact lines to report any cases making prevention a success. Libraries have found innovative

ways to remain relevant and participate in the global response against COVID-19, observe the preventive measures, and accomplish more by encouraging self-development amidst the pandemic. In summary, it is possible to note that libraries have made a positive contribution in the fight against the pandemic. It is important that libraries have in their strategic plans robust and structured interventions for pandemic crises, taking into account that information resources are vital at these times.

REFERENCES

- Aflia.net.(2020).Suite of COVID-19 resources for librarians. Available from: <https://web.aflia.net/suite-of-covid-19-resources-for-librarians/> (Accessed 29th April 2020).
- Ala.org.(2020). Public Libraries Respond to COVID-19: Free Webinar Series. Available from: <http://www.ala.org/pla/education/onlinelearning/webinars/covid-19>. [Accessed 24th April 2020].
- Allen, L.E. & Taylor, D.M.(2017). The role of the academic library information specialist (LIS) in teaching and learning in the 21st century. *Information Discovery and Delivery*.
- APL(2020) COVID- 19: the impact on public libraries. Available from: <http://publiclibrariesonline.org/2020/03/covid-19-its-impact-on-public-libraries/>. (Accessed 4th April 2020).
- Boston, G. (2020). During the crisis, the library is at your fingertips. Available from: <https://www.bostonglobe.com/2020/04/01/nation/even-amidcoronavirus-pandemic-your-local-library-is-right-your-fingertips/>. (Accessed 13rd May 2020).
- Edsurge.com.(2020). How Librarians Continue Their Work Digitally Even as Corona virus Closes Libraries. Available from: <https://www.edsurge.com/news/-03-17-how-librarians-continue-their-work-digitally-even-as-corona-virus-closes-libraries>. (Accessed 31st March 2020).
- Erlingsson, C. & Brysiewicz, P. A. (2017). Hands-on guide to doing content analysis. *African Journal of Emergency Medicine*.; 7(3):93-9.
- Featherstone, R.M.et al(2012). Provision of pandemic disease information by health sciences librarians: a multisite comparative case series. *Journal of the Medical Library Association: JMLA*. ; 100(2):104.
- Hamilton, D. (2020). Library Services during COVID-19. Available from: <http://www.lib.uct.ac.za/covid19-Library-services>. (Accessed 19th May 2020).

- Hinchliffe, J.L, & Wolf, C. (2020). Academic library response to COVID-19: real-time data gathering and dissemination. The Scholarly Kitchen;
- Ifla.org. (2020). COVID-19 and the Global Library Field. Available from: <https://www.ifla.org/covid-19-and-libraries>. [Accessed 19th May 2020].
- Jango, T. (2020). Library Journal. Canadian Libraries Respond to COVID-19. Available from: https://www.libraryjournal.com/?detailStory=canadian-libraries-respond-to-covid-19&fbclid=IwAR2Ikj5tFFJiAutHjyE0tnvziXrnWwGXB5gaX_C1OeNsR9L8MtxuOg hpNAM. [Accessed 27th April 2020].
- Katayoon, K. & Abrizah, A. (2017). Librarians' role as change agents for institutional repositories: a case of Malaysian Academic Libraries. *Malaysian Journal of Library & Information Science*. 15(3): 121-33.
- Latif, F., Bashir, M.F. & Komal, B. (2013). Role of electronic media in mitigating the psychological impacts of novel corona virus (COVID-19). *Psychiatry Research*. 202; 113041.
- Libraries connected. (2020). Responding to Covid-19. Available from: <https://www.librariesconnected.org.uk/page/responding-covid-19>. (Accessed 13rd May 2020).
- Ma, J., Stahl, L. & Knotts, E. (2018). Emerging roles of health information professionals for library and information science curriculum development: a scoping review. *Journal of the Medical Library Association: JMLA*; 106(4):432.
- Majid, S. & Rahma, N.A. (2013). Information needs and seeking behavior during the H1N1 virus outbreak. *Journal of Information Science Theory and Practice*, 1(1):42-53.
- Merriam, S.B. & Grenier, R.S. (2019). Qualitative research in practice: Examples for discussion and analysis. John Wiley & Sons; 209.
- Murphy, J. (2007). International perspectives and initiatives. *Health Information & Libraries Journal*.; 24(1): 62-8.
- Next City.(2020). In the age of Corona virus, libraries are getting books into people's hands – without touching. Available from: <https://nextcity.org/daily/entry/coronavirus-libraries-books-into-peoples-hands-without-touching>. [Accessed 20th April 2020].
- Nitecki, D.A. & Davis, M.E. (2017). *Changing landscapes: New roles for academic librarians*. Paper presented at: IFLA WLIC 2017 – Wrocław, Poland – Libraries.Solidarity.Society.in Session 187- Library Theory and Research with New Professionals Special Interest Group.

Ogungbeni, J.I. et al (2018). The roles of academic libraries in propagating open science: a qualitative literature review. *Information Development*. 34(2):113-21.

Wang, T.&Lund, B.D. (2020).Announcement information provided by United States' public libraries during the COVID-19 Pandemic.<https://doi.org/10.1080/01616846.2020.1764325>

Wilson, V. (2016).Research methods: content analysis. *Evidence Based Library and Information Practice*. 403