Original Research Article

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Learning wellness: Knowledge of health

information among adolescent postpartum

mothers in rural communities

6 Abstract

7 Purpose

- 8 This study was conducted among postpartum mothers in selected rural communities in
- 9 Ghana. The aim was to find out the knowledge of health information among adolescent
- 10 postpartum mothers and their perceptions on how libraries can help in "ensuring healthy
- 11 lives and promoting well-being for all at all ages".

12 Design/methodology/approach

- 13 A hospital-based case-control study was conducted between September 2017 and October
- 14 2017. One hundred and one (101) participants were involved in this study. They included
- 15 Fifty-three (53) adolescents and Forty-eight (48) adult postpartum mothers who were
- 16 receiving postnatal services at the Takrowase, Kusi and Wenchi Health Centres in the
- 17 Denkyembour District of the Eastern Region, Ghana. Questionnaire containing information
- on the socio-demographic background of respondents and also questions relating to
- 19 respondents' "knowledge on libraries", "sources of health information", and "types of health
- 20 information" was used as the tool for data collection.

21 Findings

- 22 All respondents in the case group 53(100.00%) and majority of the control group
- 23 47(97.92%) exhibited poor knowledge of libraries with majority of them having negative
- 24 perceptions on the roles libraries play in disseminating health information. The need for
- 25 information on "baby-related" and "health-related" issues was high among the study
- 26 population, and there was no clearly identified source of information. However, the oral
- 27 medium for information dissemination was highly acknowledged by the case group
- 28 *51*(96.23%) *and the control group* 47(97.92%).

29 Originality/value

- 30 This is a unique study among the few attempts that have been made to investigate the roles
- 31 libraries play in meeting the health information needs of people. Extension of library services
- 32 to vulnerable people, particularly, adolescent postpartum mothers in rural communities
- would not only make them information conscious, but also, it will go a long way of "ensuring
- 34 healthy lives and promoting well-being for all at all ages" SDG3.

Key words:

- 36 Library Services; Adolescents; Postpartum Mothers; Vulnerable Persons; Health
- 37 Information.

38 1. Introduction

39 Dependable health information resources is one of the most treasured resources 40 available to society [1] and the continuous access to health information makes 41 patients and individuals well-informed about their conditions which is on record to 42 have helped enhanced health care and reduced healthcare delivery cost [2]. State 43 agencies have been encouraged to ensure that young people have access to 44 information and materials from a diversity of national and international sources, 45 especially those aimed at the promotion of their well-being and health [3]. To this 46 end, Nwalo and Anasi postulated that, the young adult should have the right to 47 receive information and services necessary to protect them from reproductive 48 health-related infections, unintended pregnancies and their associated outcomes [4]. 49 Meeting the health information needs of adolescent postpartum mothers, 50 particularly those in rural communities is a positive step towards achieving SDG3. 51 Rose and colleagues used the term "emerging adulthood" to describe "adolescence" 52 [5] and it has been explained that this group is characterised by individuals who 53 experience unique challenges including identity exploration, participation in risky 54 behaviours, and the exhibition of behaviours most cultures try to oppose [5,6]. It is 55 the period when young adults begin to make health decisions on disease prevention 56 and health promotion efforts in order to mitigate the effects of various somatic 57 diseases [7]. 58 It becomes a key concern when such an adolescent is a mother. Such a person needs 59 information on breastfeeding, family planning, contraceptives, Sexually Transmitted 60 Diseases, parenting among others [4,8,9]. Adolescents who receive current, accurate, 61 reliable, and balanced health information are more likely to express healthier sexual 62 attitudes and engage in healthier behaviours than adolescents receiving limited or 63 no sexual-health information [10]. Health information can be categorised into formal

64 and informal [9-11]. Adolescents who receive health information from formal 65 sources engage in fewer risky behaviours and hold more cautious attitudes about 66 issues than adolescents who receive information from peer and popular media 67 sources. 68 How people find the health information they need has been a concern for librarians 69 for decades [12]. The Consumer and Patient Health Information Section (CAPHIS-70 MLA) of the American Medical Library Association observed that, the growing focus 71 on patient-centred care and the general need for accurate general health information 72 have brought about the need to integrate librarians fully into health delivery systems 73 [13]. Considerable number of studies on adolescent health information have been 74 undertaken by a number of researchers in Ghana [14-16], but none considered the 75 role libraries could play in disseminating health information to citizens, especially, 76 the vulnerable in society. However, it has been established by researchers in other 77 jurisdictions that the library is a major channel through which health information 78 can reach the vulnerable in society [4,10,12,17]. Earlier studies confirmed a dearth of 79 information on how the vulnerable in society, like the adolescent postpartum 80 woman, access health information in a resource-limited rural Ghana. To improve 81 upon the efficiency and impact of health information dissemination to vulnerable 82 societies, as well as realise goal 3 of the SDG, this study examined the knowledge of 83 health information among adolescent postpartum mothers and their perceptions on 84 how libraries can help in "ensuring healthy lives and promoting well-being for all at 85 all ages".

2. Materials and Methods

87 **2.1 Subjects**

- 88 A hospital-based case-control study was conducted between September 2017 and
- 89 October 2017. One hundred and one (101) participants were involved in this study.
- 90 Fifty-three (53) adolescent and Forty-eight (48) adult postpartum mothers receiving
- 91 postnatal services at the Takrowase, Kusi and Wenchi Health Centres in the
- 92 Denkyembour District of the Eastern Region of Ghana were recruited for the study.

93 Selection criteria for the case group were adolescent postpartum mothers below the 94 age of Twenty (20) [18] who were residing in Takrowase or its environs for at least 95 one year. The control group were adult postpartum mothers who were more than Nineteen (19) years old and who had been living in Takrowase or its environs for at 96 97 least one year. The study was conducted in Takrowase and its environs because the 98 community was deprived of certain basic amenities [19]. Permission was sought 99 from the Denkyembour District Health Directorate to engage participants and also 100 visit the health centre. The objectives of the study were explained to participants and 101 those who were interested and willing gave their consents to participate in the 102 study.

2.2 Data Capturing Tool

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This study used both primary and secondary data. Primary data collected from respondents captured "health information needs", "sources of health information" and "the perceived knowledge of libraries and their roles", by using a self-reported structured questionnaire. Additionally, information like age, educational background of participants and their partners and number of children were collected in order to appreciate the socio-demographic characteristics of the respondents. Secondary data was collected through a review of related literature in order to understand current and previous studies on the topic and also appreciate the gap in literature that needs to be bridged. Some databases that were consulted during this research include PubMed, ERIC, MeSH, CINHAL Complete, Popline. These databases were used because their scopes (medicine, reproductive health and related sciences and education) related to the objectives of this paper and were useful to the study. In order to retrieve more precise and refined results, the researcher combined some search terms. Some of these include: ["Health information" AND (Adolescents OR Teenagers)]; ["Health information" AND "Rural Communities"]; ("Health information" AND "Postpartum mothers") and other related terms.

2.3 Statistical Analysis

- 121 The self-reported questionnaire was made up of a four point "Likert type items" 122 indicating the degree of agreement with a statement. The cumulative percentage of 123 the various scores were calculated. Items or groups that scored 80% or more were 124 those "High/Positive", within 60≥x<80 were ranked 125 "Acceptable/Average" and scores that were less than 60% were ranked as 126 "Low/Poor" [20]. Continuous variables were expressed as their mean ± standard 127 deviation, whereas categorical variables were expressed as figure and proportion. 128 Comparisons of the general characteristics of the case group against the control 129 group were performed using unpaired t-tests, chi-square tests, or Fisher exact tests 130 where appropriate. A level of P < 0.05 was considered as statistically significant for all 131 analysis. Microsoft Excel and GraphPad Prism version 6.00 were used for statistical 132 analysis where appropriate.
- 2.4 Ethical Considerations
- The research work was anonymous and non-linked. Confidentiality of responses
- was assured. All participants read and understood the objectives of the study and
- 136 consented to participate in the study. For those who could not read, research
- assistants helped to read and explain the objectives to them.
- 138 **3. Results**
- Out of the 101 participants involved in this study, 53 classified as cases were
- adolescent postpartum mothers, with the remaining 48 who were adult postpartum
- mothers classified as controls. The average ages of the respondents in this study and
- their partners were 19.85±2.55 and 23.90±3.14 respectively. Majority of the
- respondents 84(83.17%) were cohabiting with their partners with a greater
- proportion 84(83.17%) having basic level of education. A significant proportion of
- the participants 69(68.32%) were not engaged in any form of employment with a
- substantial percentage of their partners 73(72.28%) working in the informal sector.
- Averagely, participants had been living in their respective villages for 15.56±5.58
- 148 years as at the time the study took place. In general, apart from "partner's
- employment status (P=0.16)" and "number of years participants have been living in

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their respective towns/villages (P=0.06)", all other variables showed a significant difference between the case and control groups. (see Table 1).

Table 1: Socio-demographic characteristic of the population stratified by stages of development

5	Total	Canas	Combral		
Parameters		Cases	Control	P-value	
	N=101	N=53	N=48		
Towns					
Kusi	39(38.61)	12(22.64)	27(56.25)		
Takrowase	40(39.60)	29(54.72)	11(22.92)	0.001	
Wenchi	22(21.78)	12(22.64)	10(20.83)		
Age	19.85±2.55	17.92±2.56	22.00±2.54	< 0.0001	
Partner's age	23.90±3.14	21.81±3.15	26.21±3.15	< 0.0001	
Marital Status					
Co-habited	84(83.17)	53(100.00)	31(64.58)	< 0.0001	
Married	17(16.83)	0(0.00)	17(35.42)	< 0.0001	
Number of Children	1.18±0.38	1.04 ± 0.41	1.33±0.41	0.0006	
Educational Background					
None	2(1.98)	2(3.77)	0(0.00)		
Basic	84(83.17)	49(92.45)	35(72.92)	0.0023	
Secondary	15(14.85)	2(3.77)	13(27.08)		
Partner's Educational Bac	ckground				
None	6(5.94)	3(5.66)	3(6.25)		
Basic	55(54.46)	38(71.70)	17(35.42)	0.0023	
Secondary	38(37.62)	11(20.75)	27(56.25)	0.0023	
Tertiary	2(1.98)	1(1.89)	1(2.08)		
Employment Status					
None	69(68.32)	50(94.34)	19(39.58)		
Informal	26(25.74)	3(5.66)	23(47.92)	< 0.0001	
Formal	6(5.94)	0(0.00)	6(12.50)		
Partner's Employment St	atus				
None	14(13.86)	8(15.09)	6(12.50)		
Informal	73(72.28)	41(77.36)	32(66.67)	0.155	
Formal	14(13.86)	4(7.55)	10(20.83)		

Continuous data is presented as means ± standard deviation of the mean, with categorical data presented as figure with percentage in parenthesis. Continuous data were compared using unpaired t-test. Categorical data were compared with chisquare tests, or Fisher exact tests where appropriate. P is significant at <0.05.

14.56±5.58

16.66±5.61

0.0625

15.56±5.58

Years living in this town

Significant proportion of both the case and control groups exhibited poor knowledge on the availability of libraries, however, a greater proportion of the control group 21(43.75%) and 12(25.00%) displayed positive and acceptable knowledge respectively with regards to the roles libraries play in disseminating health information. (See table 2).

Table 2: Respondents' perceived knowledge of libraries

Parameters	Cases N=53			
Knowledge on libraries				
Acceptable	0(0.00)	1(2.08)	0.4752	
Poor	53(100.00)	47(97.92)		
Perceived roles of libraries				
Positive	8(15.09)	21(43.75)		
Acceptable	11(20.75)	12(25.00)	0.0015	
Negative	34(64.15)	15(31.25)		

Data is presented as figure with percentage in parenthesis. Categorical data were compared with chi-square tests, or Fisher exact tests where appropriate. P is significant at <0.05.

Among the study population, it was observed that a significant proportion of both the case and control groups had a high need for "baby-related information" 39(73.58%) and 32(66.67%) respectively and "health-related information" 43(81.13%) and 28(58.33%) respectively. However, there was a general low need for "economic-related information" 49(92.45%) and 34(70.84%) and "social lifestyle and support information" 42(79.25%) and 37(77.08%) respectively among the case and control groups. (See table 3).

Table 3: Health information needs of respondents

Parameters	Cases N=53	Control N=48 P-value	
Baby-related inform	nation		_
High	39(73.58)	32(66.67)	
Average	4(7.55)	11(22.91)	0.0676
Low	10(18.87)	5(10.42)	

Partner-related information				
High	11(20.75)	4(8.33)		
Average	27(50.94)	23(47.92)	0.1136	
Low	15(28.31)	21(43.75)		
Health-related informatio	n			
High	43(81.13)	28(58.33)		
Average	10(18.87)	18(37.50)	0.0270	
Low	0(0.00)	2(4.17)		
Economic-related information				
High	0(0.00)	1(2.08)		
Average	4(7.55)	13(27.08)	0.0162	
Low	49(92.45)	34(70.84)		
Social lifestyle and suppo	rt information			
High	0(0.00)	0(0.00)		
Average	11(20.75)	11(22.92)	0.8139	
Low	42(79.25)	37(77.08)		

Data is presented as figure with percentage in parenthesis. Categorical data were compared with chi-square tests, or Fisher exact tests where appropriate. P is significant at <0.05.

Regarding the sources of health information that is acceptable to respondents, both case and control groups displayed poor attitude towards both formal and informal sources of health information. Again, it was observed that a significant proportion of both case 51(96.23%) and control 47(97.92%) groups preferred receiving health information in oral form. (See table 4).

Table 4: Respondents' knowledge of health information Sources

Parameters	Cases N=53	Control N=48	<i>P</i> -value	
Sources				
Formal				
Acceptable	1(1.89)	2(4.17)	0.6001	
Poor	52(98.11)	46(95.83)	0.6031	
Informal				
Acceptable	4(7.55)	6(12.50)	0.5117	
Poor	49(92.45)	42(87.50)		
Media				
Electronic				

High	0(0.00)	3(6.25)	
Acceptable	6(11.32)	17(35.42)	0.0016
Poor	47(88.68)	28(58.33)	
Print			
Acceptable	19(35.85)	26(54.17)	0.0741
Poor	34(64.15)	22(45.83)	0.0741
Oral			
Acceptable	51(96.23)	47(97.92)	1 0000
Poor	2(3.77)	1(2.08)	1.0000

Data is presented as figure with percentage in parenthesis. Categorical data were compared with chi-square tests, or Fisher exact tests where appropriate. P is significant at <0.05.

4. Discussion

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The lack of awareness of information needs and the inability to recognise and adequately express information needs are serious barriers to fulfilling information needs [21]. The record of poor knowledge on libraries among the general population was the main observation in this study. However, it was observed that majority of the control group 21(43.75%) had positive views of the roles of libraries in health information dissemination (P=0.002), whereas a significant number of the case group 34(64.15%) had negative perceptions. These observations reflect the conclusions of Salman and colleagues, that "the lack of awareness of library services that are available, as well as the lack of access to many of the services that users would have liked to have access to, have a major impact on the utilisation of these services" [22]. Most rural communities in Africa do not have access to library facilities and the few existing ones are in very poor conditions, owing to the lack of financial and human resources, and the absence of library materials [23,24]. Thus, the overwhelming negative perceptions of libraries among the respondents was much expected. Moreover, with a high record of low educational level (basic education) among the case group 49(92.45%) and their partners 38(71.70%), it was expected that libraries and other literary-related institutions will not be part of their connexions. Lee has

209 established a positive relationship between library usage and ones' level of 210 education [25]. 211 A high significant difference of (P < 0.0001) in the employment status among the 212 study population is an issue of concern. Thus, a positive relationship between the 213 working class of the control group 42(87.5%) [see table 1] and their appreciation of 214 the library's role in disseminating health information 33(68.75%) [see table 2] is 215 established. This observation contradicts earlier studies that confirmed rather 216 negative relationship between "the employed" and "acceptable attitude towards 217 libraries" [26]. 218 The study also established high demands for "baby-related information" and 219 "health-related information" among both the case group 39(73.58%); 43(81.13%) and 220 the control group 32(66.67%); 28(58.33%) respectively. These findings are in tandem 221 with Lee and Grimes whose work on health information needs and seeking 222 behaviours among mothers revealed that majority of the respondents indicated the 223 need for information relating to the health of their babies, the kind of foods to give to 224 their babies, vaccination schedules, among others [25,27]. Most of the respondents in 225 the case group and even in the control group had just given birth to their firstborns 226 during the time of the study (see table 1), hence the insatiable need for basic 227 information on their babies and their health. The need for "partner-related 228 information" and "social lifestyle and support information" were generally low 229 among the study population. This may be as a result of the socio-cultural 230 background of the respondents. Even though the study revealed a poor need for 231 "informal sources" of information (see table 4), the proportions were higher than the 232 need for "formal sources". Thus, these respondents depend much on their mothers 233 and other caregivers during these periods for information relating to the subjects 234 under review. Even though the study established a high rate of unemployment 235 among the study population, the need for "economic-related information" was 236 surprisingly low. The need for "economic-related information" among the case 237 group was very low as compared to the control group. This situation may be as a

result of the level of literacy and requisite skills they need to instigate the search for economic-related avenues.

Generally, the study identified a lack of a clearly defined source of information among the study groups. However, it was realised that the control group had higher interest in informal sources of information than the case group and also than in formal sources. This observation is in tandem with the findings of earlier studies which identified informal sources as the most used by mothers [25,27–29]. Again, the low level of education and the socio-cultural background of the respondents in the present study could account for the result of the current study. Lack of awareness of information sources and the inability to recognise and adequately express information needs have been identified as gaps in meeting health information needs [21]. In terms of channel to convey health information, this study found out that almost all the respondents; case group 51(96.23%) and the control group 47(97.92%) indicated "oral" as the main acceptable medium to receive health information.

5. Conclusion

Lack of awareness of libraries and their role in disseminating health information was the general view among the study population. Again, the lack of recognition for information needs should wake librarians and other stakeholders up. Extending library services to vulnerable people, particularly, the adolescent postpartum mothers in rural communities would not only make them information conscious, but also, it will go a long way to "ensuring healthy lives and promoting well-being for all at all ages" – SDG3. These services could be in the form of organising informal information literacy sessions, where individuals would be equipped with skills to know the need for health information, to access the needed health information, to critically evaluate health information, to use health information effectively in solving specific health problems, and also to understand legal and ethical issues surrounding the use of health information. Public and community libraries could also introduce "mobile services" to such villages where health related materials could be housed in a van that will periodically visit villages to serve people.

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