



Nurses Stigmatising Attitudes towards Persons with a Mental Disorder; A Potential Barrier of Integration of Mental Health Services within Urban Health Centres in a Selected District Hospital in Rwanda



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Abstract

Mental disorders (MD) is significantly contributing to global burden of disease and this is the fourth leading cause of global disability. To overcome this concern, the World Health Organization recommended integration of mental health care into general health care facilities and nurses have an important role in the implementation of WHO recommendation about the integration. The objectives of this study are as follows: To describe stereotypical attitudes amongst urban nurses regarding persons with a mental disorder and to explore relationships between specific socio-demographic factors (age, gender, qualification, years of nursing experience and familiarity) and nurses' stigmatizing attitudes towards persons with mental disorders in urban health centers of a selected district hospital in Rwanda.

A quantitative, descriptive cross sectional study was conducted among nurses working in urban health centres of a selected District hospital in Rwanda and a self-report questionnaire that included person four demographic variables and two sections such as level of contact and the Community Attitudes towards Mental Illness -Swedish version. The self-report questionnaire was distributed to available nurses (n=128) and the next step was data analysis where SPSS version 20 was used. This study revealed that participants held negative stereotypes towards persons with MD. Association test revealed less negatives stereotypes towards MD amongst higher qualified nurses, younger nurses and less experienced nurses. Also, correlation test revealed that increases in LOC correlates with decrease in score in some CAMIs, subscales and total score.

Keywords: ANurse; Mental disorder; Urban health centres; Stigmatizing attitude; Familiarity

Introduction

Mental disorder is defined as a clinically significant behavioural or psychological syndrome, or pattern, that occurs in an individual and is associated with distress or disability or with an increased risk of suffering death, pain, disability, or an important loss of freedom [1] and mental disorders represent 13% of the global burden of disease and have a global prevalence ranging between 4% and 26% [2]. However, the estimate increases to 23% in high income countries [2-4]. Also it is argued that mental disorders are among the four leading causes of disability globally. Mental health problems are reported to be one of the most common causes of disability and premature death, with more than 30% of disability cases reported being related to mental disorders [2,4]. Disability as a result of mental disorders is defined as any restriction or lack of ability to perform a role in the manner considered normal for a human being [5].

In 2013, the World Health Organisation recommended the integration of mental health care into general health care facilities to reduce mental health related problems considered as global and local burden. This integration is crucial in Rwandan

context as long as Rwandan citizens faced a tragedy of Genocide against Tutsis in 1994 that had a significant impact on the mental health of the population, thus psychological trauma that making a burden on Rwandan mental health services [6]. To face genocide related mental health problems, the Rwandan Ministry of Health began integration of mental health into district hospitals settings. For its implementation, the integration would rely heavily on nurses who are more closed to clients 24/24hrs [7,8]. Rwanda is facing shortage of Mental Health nurses who are working in mental health sector are estimated at 0.8 per 100000 population thus the integration is really done by general nurses in both rural and urban health facility settings estimated at 5.8/100000 [9].

Current both international and local literature suggest that the integration of mental health care services into general healthcare settings including PHC will reduce stigmatizing attitudes towards mental disorders. However, it has been shown that health care professionals including nurses have negative stereotypes towards persons with a mental disorder [7,10,11].

To overcome this issue of stigma, anti-stigma initiatives are suggested to positively impact on these negative stereotypes generally include education, information sharing about mental disorders, and, familiarity by increasing contact [12-15]. Despite Rwandan integration of mental health services beginning in 2005, there are few local research regarding the mental disorder stigma among nurses who are suggested to be actively involved in the implementation of integrated care [16-18]. This issue of stigma is a potential barrier of such integration of mental health services at the different levels within the main health care services.

The purpose of this study is to describe stigmatising attitudes towards a person with MD amongst nurses working in urban catchment area of a selected District in Rwanda to inform anti stigma initiatives to reduce stigma in health care professionals.

Materials and Methods

Design and instruments

This study adopted a quantitative, non-experimental, descriptive cross sectional design where a self-report questionnaire was used to facilitate an audit of the attitudes of nurses towards persons with a mental disorder.

The self-report questionnaire was divided into three sections and contained two data collection instruments. The first section concerned demographic data (Age, gender, experience and qualification). The second section contained the level of contact scale (LOC) designed by Corrigan and colleagues [19] which aimed at measuring the extent of participants familiarity with persons with a mental disorder. The third section contained the Swedish version of the Community Attitudes towards Mental Illness (CAMI) instrument [20]. The original CAMI and LOC have been used extensively since and has shown high validity and reliability [21-23]. The self-report questionnaire was translated into French due to the fact that historically the teaching medium in high learning institutions was shifting from French to English.

The reliability of LOC has been reported by [24] to have inter-rater reliability of 0.83. Informed implied consent was also used. The rationale for the use of informed implied consent was to reduce participants' perceived risk to anonymity and confidentiality, and to attempt to reduce social desirability bias influencing participants' responses. This issue of discrimination is specifically sensitive in Rwanda due to the tragedy of genocide resulting from discrimination from one group to another is a source of national shame. Rwandan population is sensitive to their behaviour, both verbal and nonverbal, being deemed discriminatory.

Research setting and participants

The research setting was urban Health Centers of a selected District Hospital in Rwanda. It is District Hospital is a referral hospital for 16 Health Centres within the respective District.

Within the Rwandan health care system the Health Centres are the first point of contact for and MHCUs. Health Centres

provide essential and basic mental health care including counselling and basic medication (chlorpromazine, diazepam) according to the essential drugs outlined in the WHO.

Current statistics show that this District Hospital is serving a total population of 300,051 spread over a 1000km square geographical area. These Health Centres do not have specialists staff in any domain; even general medical doctors who are only supervising the HC from the District Hospital, no medical technicians. However, the most staff of HC are composed of nurses including general nurses, midwives, the Director of the HC and any other support staff. There are no mental health nurses. All of nursing staff in these urban HC makes a total of 136 nurses. The HC provide comprehensive and primary health care/services including consultation, maternity, antenatal care, hospitalization, immunization, VCT/PMTCT, etc. In addition, mental health services are integrated into health care provided at HC level.

The nurse training in Rwanda encompasses equivalents of internationally recognised courses such as the Registered nurse (A1), the Enrolled nurse (A2) and the Auxiliary nurse (A3). The auxiliary nurse (A3) is a legacy category of nurse, the course no longer offered.

Data collection procedures

Data collection followed ethical approval that has been granted by high educational institution: University of Rwanda, the CMHS institutional review board on behalf of the National Ethical Committee (NEC) (CMHS/IRB/259/2015). In addition District Hospital management permission was obtained. A meeting was held with Directors of urban Health centres to discuss about modalities of data collection and a data collection schedule was agreed upon considering the working hours. As long as some nurses were on night duty, the researcher came next days to make sure that all nurses at urban health centre is approached.

The researcher collected data from all participants and Information sheets were distributed to all nurse by the researcher and time to ask questions was given immediately prior to participation. After being submitted, self-directed questionnaires were kept in the sealed box provided.

Data analysis

A codebook data was entered into the statistical computer package SPSS, Version 20. The single highest score from the LOC was recorded. Reverse scoring was applied to items 4,5,6,10,11,12,13,17 and 20 for the CAMI-S. Descriptive statistics computed included; measures of central tendency and distribution (Scores were tabulated for all scales and sub-scales. The researcher decided to use non-parametric tests for further analysis due to the fact that the distribution of data was abnormal.

Associations were computed using the Mann whitney U test to compute associations of subscale scores and total score

with demographic variables (gender) and the Kruskal Wallis H Test (associations of subscale scores and total score with demographic variables (Age, experience, category of nurse and qualification)). The Spearman's rho correlation coefficient test was used to compute correlations between scores achieved on the LOC, level of familiarity and scores achieved in the CAMI-S [24].

Ethical considerations

In the current study, implied consent was used and the researcher wants to assure participants of anonymity and attempt to reduce responses that may represent social desirability bias in an attempt to reduce social desirability bias by increasing participant's sense of anonymity [25]. In addition, regarding potential risks and risk minimization, the student nurses are not considered vulnerable in the same way as MHCUs. The study was argued to be low risk research [25]. Regarding dissemination, the research setting was given a report and the research is in the process of publication.

Results and Discussion

Description of participants

The total number of participants was (n=126) and the majority included female participants (70.3%) and minority of male participants (29.7%). Distribution of participants according to their age, was as follows; age 21-30 (41.4%); 31-40 (41.4%); 41-50: (10.9%) and <51: (6.3%). Regarding the category of nurses, the majority was nurses with Diploma (n=89.6%) while nurses with advanced diploma were (26.6%), Bachelor's Degree (3.9%) and none among nurses was Masters' Degree holder (0,0%).

This is not surprising as long as the training of Advanced Diploma and above started only from 1998. The respondents were categorised into two as follows: Registered nurses (30.0%) and enrolled nurses (69.5%). Lastly, the majority of participants was experienced between 0-8 years (55.5%); followed by 9-16(28.9%); 17-24(9.4%) and < 50(6.3%). The response rate achieved is 94.1%.

Table 1: Level of familiarity.

Score	Level of Contact	N (%)
1	Never observed a person with mental disorder	0(0%)
2	Observed in passing a person with mental disorder in passing	2(1.6%)
3	Watched a movie or television show	2(1.6%)
4	Watched a documentary or television	3(2.3%)
5	Observed a person with severe mental disorder on frequent basis	1(0.8%)
6	Worked with a person who had mental disorder at my place of employment	4(3.1%)
7	My job include providing health care to person with serious mental disorder	32(25%)
8	My job involves providing services or treatment to person with severe mental disorder	13(10.2%)
9	A friend of my family has a mental disorder	19(14.8%)
10	I have a relative who has a severe mental disorder	26(20.3%)
11	I live with a person who has mental disorder	15(11.7%)
12	I have severe mental disorder	11(8.6%)

Level of contact

As displayed in (Table 1), participants' level of contact, measured by the LOC scale, ranged between a score of 2 Observed a person with mental disorder in passing (1.6%, n=2) and a score of 12, I have a severe mental disorder (8.6%, n=11). The most commonly occurring score was level 7, providing services to person with severe mental disorder (25%, n=32).

Results from the CAMIs

As displayed in (Table 2), the findings from this study confirm that the participants reflected negative stereotypes towards persons with mental disorder regarding all items on CAMIs, subscales and the total score. However, the table below and measures of central tendency indicate that these negatives stereotypes were less prevalent on the following Items than others: Item 4: Mental health facilities should be kept out of

residential neighborhoods' (44.4%) Item 5: Having mental patients living within residential neighborhoods' might be a good therapy, but the risks to the residents are too great (45.9%); item 6: Local residents have good reason to resist the location of mental health services in their neighborhoods and item 12: It is frightening to think of persons with mental problems living in residential neighborhoods' (47.6%). Also findings from this study shown that negatives stereotypes were more prevalent on the item 19: We need to adopt a far more tolerant attitude towards the mentally ill than remaining others (1.6%). Findings from the current study are in line with international and local studies conducted previously on health care providers [17,22,23] Baziga, 2017. However Putman [26] suggest that psychiatrists and/or other health professionals generally have more positive attitudes towards mentally ill people than the general public.

Table 2: Results from the CAMIs.

Item Statements	Participant Responses				
	SA	A	N	D	SD
Subscale 1: Open minded and pro- integration					
Residents should accept the location of mental health facilities in their neighbourhood to serve the needs of the local community	48.4%	28.1%	13.3%	7%	3.1%
Most persons who were once patients in a mental hospital can be trusted as babysitters	31.3%	29.7%	14.1%	16.4%	8.6%
Locating mental health services in residential neighbourhoods does not endanger local residents	25.8%	38.8%	20.3%	18.8%	2.3%
Mental health facilities should be kept out of residential neighbourhoods	27.3%	30.5%	7.8%	25.0%	9.4%
Having mental patients living within residential neighbourhoods might be a good therapy, but the risks to the residents are too great	10.2%	14.8%	39.1%	25.0%	10.9%
Local residents have good reason to resist the location of mental health services in their neighbourhood	27.3%	22.7%	21.9%	17.2%	10.9%
Mental disorder is an illness like any other	39.1%	39.1%	5.5%	8.5%	7.8%
We need to adopt a far more tolerant attitude towards the mentally ill in our society	49.2%	35.2%	14.1%	1.6%	0.0%
The mentally ill are far less of a danger than most persons suppose	26.6%	42.2%	10.2%	16.4%	4.7%
Subscale 2: Fear and avoidance					
It is best to avoid anyone who has mental problems	28.1%	31.3%	14.8%	18.0%	7.8%
I would not want to live next door to someone who has been mentally ill	22.7%	29.7%	14.1%	23.4%	10.2%
It is frightening to think of persons with mental problems living in residential neighbourhoods	9.4%	36.7%	6.3%	24.2%	23.4%
The best way to handle the mentally ill is to keep them behind locked doors	31.3%	28.1%	14.1%	15.6%	10.9%
Residents have nothing to fear from persons coming into their neighbourhood to obtain mental health services	27.3%	36.7%	18%	12.5%	5.5%
Less emphasis should be placed on protecting the public from the mentally ill	12.5%	27.3%	25.8%	22.7%	11.7%
Subscale 3: Community and mental health ideology					
The best therapy for many mental patients is to be part of a normal community	35.2%	43.8%	15.6%	4.7%	9.4%
The mentally ill should not be treated as outcasts of society	46.9%	28.9%	10.2%	4.7%	9.4%
As far as possible, mental health services should be provided through community based facilities	42.2%	30.5%	17.2%	10.2%	0.0%
No one has the right to exclude the mentally ill from their neighbourhood	50%	33.6%	8.6%	5.5%	2.3%
The mentally ill should be isolated from the rest of the community	48.4%	15.6%	11.7%	14.1%	10.2%

These findings suggest clear contradictions amongst participants regarding different items. For example participants resist to the integration of mental health services in their community and their neighbourhoods but at the same time participants agree with the idea of tolerating and not excluding persons mentally ill. Also, the current study revealed more neutral responses than positive stereotypes in some of the items. For example while 25% agree; 39.1% reflected neutral responses

about the idea of having mental patients living within residential neighborhoods' might be a good therapy, but the risks to the residents are too great. This is almost similar on item 15: Less emphasis should be placed on protecting the public from the mentally ill where 39.8% agree against 25.8% reflecting neutral responses.

It is possible that the extent of neutral responses within this study is also a reflection of ambivalence.

Table 3: Associations and correlations.

Items	Association				Correlation
	Age	Experience	Qualification	Category of nurse	Familiarity
Residents should accept the location of mental health facilities in their neighbourhood to serve the needs of the local community	P=052	P=048			(rho- .318, n=128, p<0.001)
Most persons who were once patients in a mental hospital can be trusted as babysitters		p=008			(rho- .341, n=128, p<0.001)

Locating mental health services in residential neighbourhoods does not endanger local residents					(rho- .298, n=128, p<0.001)
Mental health facilities should be kept out of residential neighbourhoods	P=004				(rho- .224, n=128, p<0.001)
Local residents have good reason to resist the location of mental health services in their neighbourhood	P=043	P=009			
Mental disorder is an illness like any other					(rho- .261, n=128, p<0.001)
We need to adopt a far more tolerant attitude towards the mentally ill in our society		P=028			(rho- .189, n=128, p<0.001)
The mentally ill are far less of a danger than most persons suppose		P=005		P=050	(rho- .285, n=128, p<0.001)
It is best to avoid anyone who has mental problems		P=032			(rho- .201, n=128, p<0.001)
I would not want to live next door to someone who has been mentally ill					(rho- .306, n=128, p<0.001)
It is frightening to think of persons with mental problems living in residential neighbourhoods					(rho- .383, n=128, p<0.001)
Residents have nothing to fear from persons coming into their neighbourhood to obtain mental health services				P=000	(rho- .186, n=128, p<0.001)
The best therapy for many mental patients is to be part of a normal community			P=007		(rho- .348, n=128, p<0.001)
The mentally ill should not be treated as outcasts of society		P=011	P=043	P=014	(rho- .224, n=128, p<0.001)
No one has the right to exclude the mentally ill from their neighbourhood			P=020	P=021	
Open minded and pro-Integration	P=023	P=002			(rho- .321, n=128, p<0.001)
Fear					(rho- .368, n=128, p<0.001)
Community and mental health ideology			P=010	P=040	(rho- .229, n=128, p<0.001)
Total score		P=009	P=038		(rho- .334, n=128, p<0.001)

This may suggest that participants preferred to take a neutral position rather than exhibiting negative stereotypes towards persons with mental disorders. This issue of contradiction and neutral responses were found in further studies conducted previously [22,23,27] and his colleagues in Southern Ghana in 2011. For example For example Adewayu AO et al. [27] study found conflicting evidence where respondents agreed that having persons with mental disorder as neighbours would be acceptable, but at the same time agreeing that they are undesirable to have in the neighbourhood as they are likely to be violent (Table 2).

Measures of central tendency and distribution shown that participants reflected less negative stereotypes in community mental health ideology subscale (Md=10%; Mo=5%; 25th percentile=6%; 75th percentile=13%) than Fear and avoidance (Md=15%; Mo=14%; 25th percentile=12%; 75th percentile=20%) and Open ended and pro integration (Md=20%; Mo= 16%; 25th percentile= 16%; 75th percentile=20%) subscales. Also, findings from the current study revealed that

participants reflected negative stereotypes on the total scores from the CAMI-S as confirmed by the measures of central tendency (Md= 46%; Mo= 50%; 25th percentile= 39%; 75th percentile= 53%).

Associations and Correlations

CAMI-S (Subscales & total score)

As mentioned in the research methods section, non-parametric tests were used for associations; these include the Mann-Whitney U test and the Kruskal-Wallis H test [25]. Apart from familiarity (level of contact), demographic variables (gender, experience of nurses, qualification and age of nurses) were seen as independent variables and scale scores on the CAMI-S as dependent variables. Finally, as stated in the methodology section, associations were seen as significant when they were less than 0.05 (P=<0.5) [25]. Here, only significant results are presented.

The Mann-Whitney U Test was used to compare specific participant's attitudes towards persons with a mental disorder

(scores from the CAMI-S) with gender and category of nurses. Results of Mann-Whitney U Test suggested no significant associations between gender and student nurses stigmatizing attitude towards persons with a mental disorder on the CAMI-S (subscales or total scores). However, significant associations were revealed between category of nurse and CAMI score and community and mental health subscale ($z=-2058$; $p=0.040$, $u=1340,000$); item 7: The mentally ill are far less of a danger than most persons suppose ($z= -329$; $p=0.050$, $u=836$); item 14: Residents have nothing to fear from persons coming into their neighborhood to obtain mental health services ($z=-2132$; $p= .050$, $u=134.000$); item17: The mentally ill should not be treated as outcasts of society ($z= -2457$; $p= .014$, $u=1292$); item19: No one has the right to exclude the mentally ill from their neighborhood ($z= -2312$; $p= .021$, $u=1327$). These results indicate that registered nurses reflected negative stereotypes regarding persons with mental disorder than enrolled nurses working in urban health centres of a selected District Hospital. This is highly indicated by the fact that registered nurses scored higher percentiles than enrolled nurses who scored lower. This is found on items 17 and 19 where registered nurse recorded higher (Md=2; 25th percentiles=1; 75th percentiles=4) and enrolled nurses recorded lower (Md=2, 25th percentiles=3; 75th percentiles=4). Regarding community mental health registered nurses recorded higher percentiles (Md= 10; 25th percentile=12; 75th percentiles=6) than enrolled nurses who recorded lower (Md=8; 25th percentile=10; 75th percentiles=5) indicating that students registered nurses have a greater extent of negative stereotypes than enrolled nurses regarding community mental health subscale.

As illustrated in (Table 3) below the Kruskal Wallis H Test revealed statistically significant associations between qualifications with different items; 16 ($p=007$); 17($p=043$); 19($p=020$); and community mental health subscale ($p=010$) and the total score ($p=038$). The highest qualification group recorded a higher median score (Md=3) than other three remaining groups in items 16; 17; 19 while the similar situation was found in community mental health subscale (Md=12) for nurses with bachelor and (Md=10) for nurses with advanced diploma and total score (Md=49) for nurses with bachelor and (Md=48) for nurses with advanced diploma. These results suggest that nurses with bachelor are likely to reflect less negative stereotypes than nurses with advanced diploma. Previous study conducted in Rwanda by Baziga and Smith revealed the same findings suggesting that more experienced nurses reflected less negative stereotypes.

Regarding experience, the Kruskal Wallis H Test revealed statistically significant associations with different items as follows; 1($p=0.048$); 2($p=0.008$); 3($p=0.009$); 8($p=0.028$); 9($p=0.005$); 10($p=0.032$); 17($p=0.011$) and open minded and pro-integration ($p=0.002$) and total score ($p=0.009$). The lowest experience (0year -8years) recorded a higher media score in all these items than other three remaining groups (9-16; 16-24

and 25 and above) who recorded a low media. These findings indicate that less experience they are, less stigmatizing persons with mental disorder. This goes in line with previous results regarding qualification suggesting that more qualified nurses are reflected less negatives stereotypes. Higher qualified nurses are less experienced due to the fact that Bachelor in nursing in Rwanda started in 2006. This is little different to different studies conducted extensively with international and local studies [17,23,28] that are in favour of more experienced participants being less reflecting more negatives stereotypes.

Lastly, the Kruskal Wallis H Test revealed statistically significant associations between age and three items on CAMI (item1: $p=0.052$; item4= 0.004 and item 6: $p=0.043$) and open minded and pro-integration subscale ($p=0.023$). Central tendency measures that younger nurses (21-30) recorded higher media (item1: Md=2; item4: Md=2; item6: Md=3 and open minded and pro-integration: Md=3) than other groups (31-40; 41-50 and 51 more) who recorded lower media (item1: Md=1; item4: Md=1; item6: Md=2 and open minded andro-integration: Md=3). These results indicate that younger nurses reflected less negatives stereotypes than older nurses. Also, these results are congruent with the previous finding on associations of experience, qualification due to the fact that the majority of highly and lower experienced nurses are composed of younger nurses considering the history of training of nurses in Rwanda. Findings from the current study is in line with previous studies findings such as [17,23,28] which revealed the association between age and negatives stereotypes suggesting that the younger age of participants was significantly associated with high social distance towards the mentally ill. This is bite different with the current study suggesting that younger participants reflected less negative stereotypes.

Correlation of familiarity and negative stereotypes

As it is shown in Table 3, scores achieved on the LOC, level of familiarity, were correlated with scores (CAMI scores, sub scores and total score). Also, correlation is aiming to identify possible strength and direction of this mediating relationship. Results with significant correlations (strong, medium and small) are reported ($p<0.5$), Cohen's guide lines were used to determine the strength of the correlation; small ($\rho=.10$ to $.29$), medium ($\rho=.30$ to $.49$) and strong ($\rho=.50$ to 1.0), cited in [25].

Spearman's rho correlation coefficient was used and revealed evidence of significant negative correlation between some CAMI scores, sub scores and total score and LOC. Firstly, small negative correlation were found between LOC and the following CAMI scores as follows; Item4: Mental health facilities should be kept out of residential neighborhoods' ($\rho= -.224$, $n=128$, $p<0.001$); Item7: Mental disorder is an illness like any other ($\rho= 0.261$, $n=128$, $p<0.001$); Item8: We need to adopt a far more tolerant attitude towards the mentally ill in our society ($\rho= .189$, $n=128$, $p<0.001$); Item9: The mentally ill are far less of a danger than most persons suppose ($\rho= .285$, $n=128$, $p<0.001$); Item10:It

is best to avoid anyone who has mental problems (rho- 0.201, n=128, p<0.001); Item17: Residents should accept the location of mental health facilities in their neighborhood to serve the needs of the local community (rho- .318, n=128, p<0.001); item 14: Residents have nothing to fear from persons coming into their neighborhood to obtain mental health services (rho- .186, n=128, p<0.001); Item17: The mentally ill should not be treated as outcasts of society (rho- .224, n=128, p<0.001). Also, community and mental health ideology subscale was correlated negatively with LOC (rho- .229, n=128, p<0.001).

Secondarily, moderate negative correlation was found between CAMIs and LOC as follows; item1: Residents should accept the location of mental health facilities in their neighborhood to serve the needs of the local community (rho- .318, n=128, p<0.001); item 2: Most persons who were once patients in a mental hospital can be trusted as babysitters (rho- .341, n=128, p<0.001); item11: I would not want to live next door to someone been mentally ill (rho- .306, n=128, p<0.001); item 12: It is frightening to think of persons with mental problems living in residential neighborhoods' (rho- .383, n=128, p<0.001); item 16: The best therapy for many mental patients is to be part of a normal community (rho-0 .348, n=128, p<0.001).

Lastly, moderate negative correlation was also found between subscales and total score and LOC (Open minded and pro-integration (rho- 0.321, n=128, p<0.001); Fear and avoidance (rho-0.368, n=128, p<0.001) and Total score (rho-0.334, n=128, p<0.001). These results regarding correlation, suggest that an increase in level of contact (familiarity) correlates with a decrease in scores in CAMIs, subscales and total score respectively.

These results are consistent with findings reported in literature from studies carried out on both the general population and health care providers, suggesting a significant negative correlation between familiarity and stigmatizing attitudes [13,24,28] Markström et al. [29], Leufstadius, Sandlund, Svensson, Östman & Eklund, Vedaste et al. [17,18]. These authors suggest that individuals who have a relative or a friend with a mental disorder do not generally perceive mentally ill persons as being dangerous and therefore desire less social distance from them. However, findings from this study contrast with other previous studies that have been conducted in Africa [30-32] For example, the study by James BO [15,29] reported evidence of no relationship between familiarity and the extent of negative stereotyping or desire for social distance.

Conclusion

The study revealed negative stereotypes amongst nurses working in Urban Health Centres towards persons with mental disorders. Also, the current study revealed high levels of contradictions and neutral responses. These contradictions and neutral responses may suggest a social desirability bias. The study revealed a moderate negative correlation between familiarity and negative stereotypes suggesting a mediating

relationship between familiarity with persons with mental disorders and negative stereotypes towards mentally ill people. In other words, decreased negative stereotypes were associated with increased familiarity. Familiarity did have a mediating effect on negative stereotypes and may be the foundation for changing attitudes within general health care settings and facilitate the integration of mental health services in general health care facilities in Rwanda from Health Centres to referral health care facilities.

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Conflicts of Interest

This study has not been funded by any institution or organization and it has been conducted by only one researcher thus any conflict of interests cannot be expected.

Author Contribution

The researcher contributed in all phases of the research process; such as conceptual, design, empirical, analysis and dissemination phases.

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