Evaluation of Preparedness Towards Total Quality Management at Tertiary Hospital from Health Workers Perception: A Case Study

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Abstract: Background: Total quality management (TQM) in any organization is a major determinant of efficient management of resources. In this era where hospitals provide the same type of services, it is only hospitals that have embraced TQM techniques that will survive. The study assessed the management preparedness to the implementation of TQM at University of Nigeria Teaching Hospital (UNTH) Ituku/Ozalla from the Health workers perceptive. Methods: This study was a cross sectional descriptive study. Structured questionnaire was used to collect information on the demographic characteristics of the randomly selected staff of the UNTH and their assessment of UNTH under five major domains: organizational, interpersonal, facilities, environmental and economic. Focus group discussion was also used conducted among selected staff. Results: On influence of educational factors on level of response, the study showed it has no influence on staff awareness (p = 0.264) but it influenced quality of personnel (0.049), sufficient supervision (p = 0.039), feedback mechanism (p = 0.005) and record department being computerized (p = 0.04). Number of years on the job has influence on the availability of adequate resources (p = 0.027), quality of services (0.040) and record department being computerized (p = 0.041). On the influence of cadre, it showed that level of awareness was affected but quality of personnel (p = 0.014), quality of services (p = 0.019) and availability of functional diagnostic equipment (p = 0.027) was influenced. Conclusions: TQM have been shown to have improved the efficient management of resources with attendant maximization of output. It is important that management demonstrates commitment and provide enabling environment for its sustainability. Specifically, management should institute periodic performance measurement system and strengthen the training program in the hospital. There is a need to raise the awareness on the concept and develop methods and procedures in updating existing TQM guidelines.
Keywords: Total Quality Management, University of Nigeria Teaching Hospital, Health Workers, Perception

1. Introduction

Presently in the world, the changes and development occurring in both service and manufacturing sectors of the economies have resulted to a challenging and increasing competitive environment for them. This competition mirrors on both pre and post service delivery instead of products attributes and its production [1, 36]. This obvious growth in the service sector of the economy is also expected to be followed by increase in the product marketing and management skill as well [2, 3]. This growth is likely to affect internal workings and operations of organizations (e.g., internal efficiency leading to increased productivity of labor and profits) and then to the external operations of these organizations (e.g., consumer behavior leading to customer satisfaction and loyalty); and finally a shift from a focus on organizational structure to a focus that will be on process [4, 5].

This shift in direction in the conceptual thinking on better ways of service marketing and organizational management has led to researches in quality of service delivery. Quality of service provision is not just a very important factor for consumer satisfaction, but it is also the principal indicator that shows how competitive a service organization can be measured [6, 7]. In order to achieve this service excellence, hospitals must strive for zero defects in their operations, to keeping every customer that the company can profitably and comfortably serve. Zero defects therefore require that organizations continuously channel their efforts towards improving quality of the service delivery to their customers [8, 9].

In Nigeria, the management of public healthcare system is filled with intractable problems that need holistic approach to its management [10, 11]. There is the shortage of manpower requirement in public health sector because of the unattractiveness of the salary resulting in a low Doctor-patient ratio when compared to World Health Organization Standard of one Doctor to 2,500 patients [10, 11]. The poor state of the healthcare delivery system is reflected in the declining standards and facilities at the Federal, State and Local Government Level [11]. The services provided at these public health facilities are generally perceived by members of the public as being very poor [12, 7]. The type of ill treatment often experienced by patients is a source of discouragement to them from patronizing public healthcare providers [13, 7]. This hostile attitude of hospital employees has created a boom in the market for private hospitals and alternative medicine with the attendant dangers.

Other problems faced by patients who access public health facilities are overcrowding, delay in consultation with the Doctors and lack of proper guidance by the hospital staff. The need to improve healthcare services that are provided in Public hospitals in Nigeria is imperative now because the competition in the healthcare industry is growing in Nigeria and this is occasioned by the licensing of many hospitals in the country [14, 15].

As with every good product, the services of a good hospital services market it. This word of mouth marketing comes mostly from people who have experienced the services in the hospital. However, a good product or service cannot by itself, project hospital services to the users. Certain mechanism should be put in place to achieve this purpose [12, 15]. Here, in Nigeria hospital advertisement is strictly prohibited by the Nigeria Medical Association. Services in public health institutions are still poor despite recent introduction of service compact with all Nigerians (SERVICOM) by the Nigerian Government for improving service delivery in the public health institutions. Periodic patient satisfaction surveys that should routinely be carried out to ascertain the satisfaction level of the patients are not done [16, 37].

Importantly, TQM is therefore seen as being a key factor in determining the success and survival of hospitals in today’s competitive business environment [17]. Any dissatisfaction by the customer due to poor service quality delivery would be a serious concern to the management of any organization. Similarly, consumers are becoming increasingly aware of rising standards in service quality which is a resultant effect of the stiff competitions which have developed among hospitals [18]. A total quality management system in healthcare is then perceived as a structured organizational operation that involves the staff of that organization at different levels of planning, measuring and assessing patient care in such a way as to provide the best clinical services to their patients [19].

This is a management principle which public health institutions should adopt as a fundamental business strategy because it is a concept that involves continuous improvement. No organization can afford to be competitive if it does not continuously improve on its product/services, processes and people. There is therefore an urgent need for an organization – wide approach and commitment for quality improvement to revitalize the health system. TQM option is considered a way out for improving quality services. The questions being raised in this study are; are TQM principles being practiced in UNTH Ituku Ozalla? What is the level of management preparedness in the implementation? Are there demographic factors that might influence the responses of the respondents?

This study is very important in many respects. Public hospitals are entrusted with the provision of affordable healthcare services to the public. A programme must exist for attracting patients as well as rendering optimal service to these patients. Findings in this study will be useful in trying to see perception of workers on the overall level of implementation of total quality management by the UNTH Ituku Ozalla management and the Nigeria healthcare industry.
managers in general. Also, the study will give a picture to
healthcare providers on the critical factors that
enhance/hinder the implementation of the total quality
management concept in healthcare industry.

2. Methods

2.1. Study Design

The study was a cross sectional descriptive study among
the staff of University of Nigeria Teaching Hospital (UNTH)
Ituku Ozalla.

2.2. Study Area

The UNTH is a tertiary hospital with different departments.
The hospital has a board headed by a chairman and the chief
medical director directs the day-to-day management of the
hospital. The different departments have head of department
that reports to the CMD through the Chairman Medical
Advisory Committee for medical related issues, and through
the Director of Administration for non-medical related issues.
The hospital has main site and other out-station clinics.

2.3. Population of Study

The study population was the staff of the hospital whose
names appeared on the Nominal roll from the personnel
department. At the time of the study, a total staff population of
3346 was recognized staff of the hospital (personnel department).

The final minimum sample size of 346 was obtained in two
staged. First the initial sample of 384 was obtained using EpInfo
computing the prevalence of 50% (assumed since no previous
study has been conducted), 95% confidence interval and power of
80%. However, since the population of UNTH staff is less than
10,000. The final sample size estimated using the formula:

\[ f = \frac{\text{no}}{1+\text{no}/N} \]  

(1)

Where: \( f \) = desired sample size when the population is
less than 10,000, \( \text{no} \) = sample size of 384, obtained if the
population is more than 10,000, \( N \) = Estimate of the
population size of 3346. Therefore, when input into the
above formula, the final sample size of 346.

2.4. Sampling Procedure

The 3346 staff of UNTH from different department was
stratified into high (696), middle (1450) and low (1200)
cadre. The proportions of each cadre to be sampled were high
(72), middle (150) and low (124) cadre. Staff who gave
written consent to participate in the study was surveyed.

2.5. Data Collection

Structured questionnaire was used to collect demographic data
of the respondents. The respondents were allowed to choose the
option that best suits their assessment of each of the tested TQM
domains using Likert scales. Also Focus Group Discussion (FGD)
was conducted among the key stakeholders. The FGD were held
with health workers in seven (7) purposively selected disciplines
in the hospital who have direct access to patients that accesses care
in the hospital (Nursing, Pharmacy, Doctors, Laboratory scientists,
Administration staff, Dieticians and Physiotherapist). The Focus
group discussion (FGD) members were categorized into different
cadres (high, middle, low). Three FGD members were
purposively selected from each of the seven purposively selected
disciplines making it a total of twenty one (21) FGD members. A
total of three FGD sessions was conducted, one for each of the
three cadres (high, middle, low).

2.6. Ethical Consideration

The ethics committee of UNTH Ituku Ozalla gave approval
for this study. Written Informed consent was obtained from
each respondent before participating in the study.

2.7. Data Analysis

Data entry was done with epi info version 3.5.2 and
subsequently the data was analyzed with SPSS version 18.
Quantitative data - During the analysis, a lot of coding and
grouping were done for ease of analysis. The respondent’s
ages were grouped into four categories viz: 15-25yrs, 26-
36yrs, 37-47yrs and 48-60yrs for the generation of frequency
table. The respondents’ level of education was grouped into
two categories (pre-tertiary and tertiary). Years respondent
were on the job was also recoded into less than 10 and
greater than or equal to 10 years.

The traditional even numbered Likert scale was used for
each domain: strongly agreed, agreed, disagreed and strongly
disagreed, but later binomial responses were obtained by
grouping (strongly agreed and agreed) as one and disagreed
and strongly agreed as another. A chi-square was used to test
for significant and p-value < 0.05 was significant.

Qualitative data - The records of the FDGs from the tape
recorder were transcribed. Axial coding system was used and
the emerging theme/categories were developed by reading
the transcript severally in order to establish the relationship
between the codes/ labels and the emerging themes.

The thematic analysis was used to understand common
experiences from the responses and also to understand the
agreements and disagreements arising from the participants
narratives in each study site. NVivo software (version 8) was
used to analyze the data.

3. Results

Out of the three hundred and eighty (380) questionnaires
administered, three hundred and forty nine (349) were
correctly filled and retrieved giving a response rate of 93.3%.
3.1. Demographic Characteristics of Respondents

Table 1. Demographic characteristics of respondents.

| Demographic characteristics          | Frequency n= 349 | Percentage |
|--------------------------------------|------------------|------------|
| Gender                              |                  |            |
| Female                              | 152              | 43.6       |
| Male                                | 197              | 56.4       |
| Age group                           |                  |            |
| 15-25yrs                            | 64               | 18.3       |
| 26-36yrs                            | 84               | 24.1       |
| 37-47yrs                            | 90               | 25.8       |
| 48-60yrs                            | 111              | 31.8       |
| Religion                            |                  |            |
| Christian                           | 265              | 75.9       |
| Islam                               | 15               | 4.3        |
| Traditional/others                  | 69               | 19.8       |
| Level of Education                  |                  |            |
| Primary                             | 37               | 10.6       |
| Secondary                           | 115              | 33         |
| University                          | 157              | 45         |
| Others                              | 40               | 11.5       |
| Present marital status              |                  |            |
| Single                              | 129              | 37         |
| Married                             | 145              | 41.5       |
| Separated/Divorced/Widowed          | 75               | 21.5       |
| Ethnic group                        |                  |            |
| Igbo                                | 241              | 69.1       |
| Hausa                               | 19               | 5.4        |
| Yoruba                              | 26               | 7.4        |
| *Others                             | 63               | 18.1       |
| Number of years on the job          |                  |            |
| 1-4yrs                              | 145              | 41.5       |
| 5-9yrs                              | 101              | 28.9       |
| ≥ 10                                | 103              | 28.5       |
| Cadre/Grade level                   |                  |            |
| High                                | 84               | 24.1       |
| Middle                              | 145              | 41.5       |
| Low                                 | 120              | 34.4       |
| Job specialty                       |                  |            |
| Medical                             | 105              | 30.1       |
| Paramedical                         | 72               | 20.6       |
| Non-medical                         | 100              | 28.7       |
| Others                              | 72               | 20.6       |

*Others – Respondents with only on the job training, P = 0.05.

Table shows Mean age of respondents was 39.1 years and most (31.4%, 111/349) were within the age range of 48 – 60 years. Majority (45%, 157/349) attained university education. Most (41.5%, 145/349) of the respondents had spent between 5 years or less on the job.

3.2. Responses of TQM Variables

Table 2. Responses to TQM variables.

| Variables                                | Frequency (Percent) |
|------------------------------------------|---------------------|
|                                          | Agree (Percent)     | Disagree (Percent) |
| Organizational factors                   |                      |                    |
| Management are committed to philosophy   | 150 (43.0)           | 199 (57.0)         |
| Management makes effort in training staff| 127 (36.4)           | 222 (63.6)         |
| Resources of the hospital are adequate   | 122 (35.0)           | 227 (65.0)         |
| Management motivates staff adequately    | 177 (50.7)           | 172 (49.3)         |
| Staff awareness is good                  | 181 (51.9)           | 168 (48.1)         |
| Interpersonal factors                    |                      |                    |
| Mgt. are open to suggestions             | 137 (39.3)           | 212 (60.7)         |
| Personnel quality are adequate           | 111 (31.8)           | 238 (68.2)         |
| Sufficient supervision of staff          | 130 (37.2)           | 219 (62.8)         |
| Feedback mechanism is in place           | 152 (43.6)           | 197 (56.4)         |
Table 2 shows the respondents’ assessment of the level of implementation of TQM factors in the hospital. Most disagreed on implementation of virtually all domains, except on adequacy of management motivation of staff and good staff awareness.

### 3.3. Influence of Educational Level of Respondents on Perception of Implementation of TQM Factors

| Variables                                      | Pre-tertiary n = 152 (%) | Tertiary n = 197 (%) | p–value |
|------------------------------------------------|--------------------------|----------------------|---------|
| **Organizational factors**                     |                          |                      |         |
| Committed to Philosophy (n = 150)              | 104 (69.3)               | 46 (30.7)            | 0.000*  |
| Conscious effort in training (n = 127)         | 84 (66.1)                | 43 (33.3)            | 0.000*  |
| Adequate hospital resources (n = 122)          | 67 (54.9)                | 55 (45.1)            | 0.002*  |
| Adequate motivation of staff (n = 177)         | 90 (50.8)                | 87 (49.2)            | 0.005*  |
| Staff awareness (n = 181)                      | 84 (46.4)                | 97 (53.6)            | 0.264   |
| **Interpersonal factors**                      |                          |                      |         |
| Open to suggestions & ideas (n = 137)          | 66 (48.2)                | 71 (51.8)            | 0.162   |
| The quality of personnel is (n = 111)          | 56 (50.5)                | 55 (49.5)            | 0.049*  |
| Sufficient supervision of staff (n = 130)       | 65 (50.0)                | 65 (50.0)            | 0.039*  |
| A feedback mechanism in place (n = 152)        | 79 (52.0)                | 73 (48.0)            | 0.005*  |
| Poor services (n = 173)                        | 79 (45.7)                | 94 (54.3)            | 0.430   |
| Staff attitudes to patients are not encouraging (n = 143) | 62 (43.4)                | 81 (56.6)            | 0.951   |
| **Facility factors**                           |                          |                      |         |
| State of the art equipment (n = 82)            | 43 (52.4)                | 39 (47.6)            | 0.042*  |
| Hospital facilities can support the practice of TQM (n = 98) | 49 (50.0)                | 49 (50.0)            | 0.081   |
| Nursing service provides quality care (n = 132) | 67 (50.8)                | 65 (49.2)            | 0.034*  |
| Functional diagnostic equipment @ radiology department (n = 114) | 56 (49.1)                | 58 (50.9)            | 0.089   |

Statistically Significant = * at p = 0.05.

Table 3 showed that the respondents’ educational level had influence on their responses to all the organizational factors with the exception of staff awareness with (p = 0.264). On interpersonal factors, findings showed that educational level had influence on quality of personnel (p = 0.049), sufficient supervision (p = 0.039) and feedback mechanisms (p = 0.005). On the other hand, educational level did not have influence on management being open to suggestions, poor services in the hospital and staff attitude to patients. On facility factors, the result showed that educational level had influence on only record department being computerized (p = 0.041).

### 3.4. Influence of Respondents’ Years on the Job on Their Perception of Implementation of TQM Factors

| Variables                                      | < 10yrs | > 10yrs | p–value |
|------------------------------------------------|---------|---------|---------|
| Organizational factors                         |         |         |         |
| Committed to Philosophy (n = 150)              | 105 (70.0) | 45 (30.0) | 0.862   |
Statistically Significant = * P = 0.05.

Table 4 showed that on organizational factors only the respondents’ responses on whether the hospital have adequate resources (p = 0.027) was influenced by the number of years on the job. On interpersonal factors, number of years on the job only influenced the responses on the quality of services being offered by the hospital (p = 0.040). Also, on facility factors, findings showed that the number of years on the job influenced the responses on whether the record department was computerized (p = 0.041).

3.5. Influence of Cadre on Respondents’ Perception of Implementation of TQM Factors

| Variable | High | Middle | Low | p-value |
|----------|------|--------|-----|---------|
| Organizational factors | | | | |
| Committed to Philosophy (n = 150) | 9 (6.0) | 55 (36.7) | 86 (57.3) | 0.000* |
| Conscientious effort in training (n = 127) | 11 (8.7) | 50 (39.4) | A66 (52.0) | 0.000* |
| Adequate hospital resources (n = 122) | 17 (13.9) | 52 (42.6) | 53 (43.4) | 0.002* |
| Adequate motivation of staff (n = 177) | 32 (18.1) | 70 (39.6) | 75 (42.4) | 0.002* |
| Staff awareness (n = 181) | 44 (24.3) | 66 (36.5) | 71 (39.2) | 0.086 |
| Interpersonal factors | | | | |
| Open to suggestions & ideas (n = 137) | 28 (20.4) | 57 (41.6) | 52 (38.0) | 0.355 |
| The quality of personnel is (n = 111) | 16 (14.4) | 50 (45.0) | 45 (40.5) | 0.014* |
| Sufficient supervision of staff (n = 130) | 26 (20.0) | 55 (42.3) | 49 (37.7) | 0.340 |
| A feedback mechanism in place (n = 152) | 30 (19.7) | 66 (43.4) | 56 (36.8) | 0.247 |
| Poor services (n = 173) | 48 (27.7) | 59 (34.1) | 66 (38.2) | 0.019* |
| Facility factors | | | | |
| State of the art equipment (n = 82) | 28 (20.4) | 57 (41.6) | 52 (38.0) | 0.355 |
| Hospital facilities can support the practice of TQM (n = 98) | 16 (16.3) | 44 (44.9) | 38 (38.8) | 0.104 |
| The record department is computerized (n = 134) | 34 (25.4) | 56 (41.8) | 44 (32.8) | 0.857 |
| All the lab services are functional (n = 150) | 39 (26.0) | 68 (45.3) | 43 (28.7) | 0.148 |
| Functional diagnostic equipment @ radiology depart. (n = 114) | 18 (15.8) | 49 (43.0) | 47 (41.2) | 0.027* |

Statistically Significant = * P = 0.05.

Table 5 showed that the respondents cadre had influence on their responses to all the organizational factors with exception of staff awareness of the concept (p = 0.086). On interpersonal factors, findings showed that cadre had influence on the quality of personnel in the hospital (p = 0.014) and quality of services offered (p = 0.019). Also, on facility factors, the result showed that cadre had influence only on functional diagnostic equipment being available (p = 0.027).

3.6. Focus Group Discussion (FGD)

Organizational factors.

1. Management commitment

There was a high perception among the respondents that the management was not committed to the implementation of TQM. They mentioned that there were policies in place in the hospital that can enhance proper implementation of the concept but management have not put it into use. The participants believed that the management has not shown enough leadership in the area of quality management and for the hospital to make a serious headway in the proper implementation of the concept; the management must lead by example. A participant put it succinctly:

‘The management is just paying lip service to the issue of quality management. There has to be a change in their attitude and they must lead and the workers will then follow.'
been benefited from it. It was noted that some of the reasons for not attending certain training programmes for improvement was because of lack of fund, difficulty in getting training days and also due to staff shortage. They however, mentioned that denied opportunity to improve was a missed opportunity to improve their ability to do their work effectively and efficiently. As one of the staff observed,

‘‘For many years, I have been a staff of this hospital, I have not gone for any training programme and I heard that medical doctors were always going for training programmes without any problem”

3. Availability of resources

There was a unanimous agreement among the participants that the hospital have enough human and maternal resources to achieve the goals of TQM. However, the participants noted that what hospital is lacking is proper coordination. One of the participants captured the situation aptly:

‘‘The hospital has large pool of resources that if properly harnessed can achieve whatever they want to achieve”

4. Motivation of staff

The respondents noted that lack of motivation of staff by management was one of the major reasons that the concept have not been properly embraced by in the hospital. They believed that if the staff were properly motivated, all hands will be on deck to ensure the success of the program in the hospital. As a participant said,

‘‘Like me, I have been on one grade level for the past six years. Management must encourage the staff in any way possible to achieve success in this concept”

5. Awareness of the concept

The respondents were aware of the need to offer quality service to customers that patronize the hospital. However, they advocated for the setting up of a department responsible for creating awareness, monitoring and evaluating the implementation of the concept in the hospital. The participants observed that management sometimes engages external consultants to train the staff on some aspects of the concept as a result the staff did not feel that they have a stake in the whole exercise. As captured by one of the participants,

‘‘For the concept to be sustained in this hospital, there have to be awareness creation on a continuous basis”

3.7. Interpersonal Factors

1. Feedback mechanism

The interview with the group revealed that the employees felt that there was no avenue to contribute ideas on how the hospital services should be done. Also, the participants felt that some off the staff were not willing to provide feedback to management because the environment is not conducive for it, as they were scared so as not to be victimized. A participant described it this way:

‘‘We can only make feedback contribution if it is anonymous, but there is no structure in place”

2. Services offered to the public

Most of the staff in the FDG indicated that the services rendered to the general public were poor. They noted that there was no means of monitoring and measuring quality in the hospital. It also emanated from the group that the hospital only utilized data that indicated the number of drugs the hospital dispensed to the patients. At the time of this discussion, there was no patient’s satisfaction survey in the hospital. As captured aptly by one of the participants:

‘‘For the hospital to be in the forefront, there must be measures put in place to know how we are performing because this concept is patient centered”

3. staff Attitude to client and work

There was a consensus among the participants that it was not encouraging and they observed that maybe it is a government job but still believes that there is still room for improvement. One of the participants said,

‘‘You know that government work is no man’s business whether we work or not, our salaries will be paid”

3.8. Facilities Factors

All the members of the group agreed that the hospital did not have state of the art of equipment or facilities but that what is in the hospital is comparable to what is obtainable anywhere in the country. They noted that the major problem confronting the hospital os proper maintenance of existing equipment and facilities.

They also agreed that the pharmacy was well stocked with quality drugs which they usually purchased from the drug manufacturing companies and that the laboratory services and nursing services were doing a good job considering the limitations they faced every day in their operations in terms of having appropriate equipment and adequate staffing. A participant summarized it thus:

‘‘For now we are not yet at the promised land but if everything is put in place, we will surely get there.”

The group did not agree that the location of the hospital which is situated outside Enugu metropolis would have effect in the implementation of TQM in the hospital. According to them, the distance is just about 20km and also that the hospital management made proper arrangement with private bus operators that commute patients and staff from Enugu metropolis daily. As captured by one of the participants:

‘‘It was immediately after the relocation to this permanent site that the services were affected but now things have normalized”

3.9. Environmental Factors

It was agreed among the group that the hospital have not done well in this area. The discussion revealed that for the hospital to sustain TQM practice these environmental factors have to be institutionalized and also a department should be created to oversee it. Also, they agreed that external consultants should be engaged a times to increase the capacity of the human resource in the new department. One
of the participants summarized it thus:

“*It is very important that this programme is sustained in this hospital so that it will not fade away with time*”

### 3.10. Economic Factors

There was a unanimous agreement across the FDG that the cost of accessing services in the hospital is the cheapest in the state considering the type of human resource available in the hospital and it might be attributed to the subvention they receive from the federal government of Nigeria. They mentioned that the impress that were disbursed to the departments were not adequate for the departments to actualize their set objectives. The group agreed that the impress disbursed should be adequate and also on time and a monitoring system for the usage in each department should be put in place. One of the participants had this to say:

“If not the money that comes from the government we might not be able to meet our obligations but we need to utilize the little we have very well”

### 4. Discussion

#### 4.1. Organizational Factors

The findings in the study showed that greater number of respondents especially those with tertiary education did not agree that the management were committed to the philosophy of TQM in the hospital and that the management was not making effort in staff training in the hospital. Similar report was obtained from focus group respondents who mentioned that there were policies in place in the hospital to ensure proper implementation of TQM in the hospital but the management had failed to put it to maximum use. This finding supports what Breedlove et al [20], Balasubramanian and Al-Shdaifat observed, that the hospital management needs to lead the total quality process and also encourage others within the healthcare institution to follow and prove to them that management means what they say about quality [21, 22]. Nonetheless, the findings contrasted with what Skiti reported on the average score on the manner the management have implemented the organizational mission, vision, short and long term goals [23]. Some of the factors that may militate against implementation of TQM are social complexity of certain organizations, the uncertainty of the cause-effect relationship between implementing TQM and the organizational performance as reported by Li et al, Barney et al, and Mosadeghrad et al [24-26]. Other issues are training and employee education; Kalsounakis, Hack and Wageman as well as employee empowerment as noted by Shortell et al and Boerstler et al [27-30].

The majority of those with tertiary education believed that resources of the hospital were not adequate; this is similar to what Barney et al reported [25]. In their study, it was revealed that management staff might understand the need for empowering staff, having a quality team, having a suggestion or feedback system and training programmes but might not implement it in the organization due to shortage of human and/or financial resources. It is also noticed that the vision statement of hospitals allows organizational members across all cadres to understand and identify hospital quality improvement methods, Kalsounakis [31]. Fok et al reported that staff see TQM as making them work for more hours with less pay [32].

#### 4.2. Interpersonal Factors

The majority of the respondents stated that the management were not open to suggestions from the staff: this might account for the reason why greater number of the respondents with tertiary education agreed that there was no feedback mechanism in place in the hospital. This finding is collaborated by Kalsounakis that reported involvement of all organizational members in quality process thus creating a culture of quality [31]. The respondents with tertiary education believed that quality personnel were inadequate in the hospital but that the quality of services which the hospital rendered to the public was good, similar to what Chakrabusty et al and Shehu et al reported indicating that majority were satisfied with physicians’ courtesy, attention to complaints, patience with them, explanation of what they wanted to know and providing them with good advice and treatment [31, 32]. There was insufficient supervision of staff in the hospital on the implementation of TQM, especially among those that had spent less than ten years in the facility, this is similar to what Anyansi [34] reported in Ebonyi state, Balasubramanian in India and Al-Shdaifat [21, 22].

#### 4.3. Facilities Factors

There was lack of state-of-art equipment in the hospital. Majority believed that most of the diagnostic equipment at the radiology department were not functional and could not support the implementation of TQM. Anyansi in Ebonyi state reported that most of the respondents were not satisfied with the services offered to them at the radiology department [34, 35]. The reason for this may be due to low subvention released to the facilities as indicated by Balasubramanian and Mosadeghrad et al [21, 26]; this is in contrast to what Agbaeze et al and Min et al reported in their study [36, 37, 38]. However, the reason for this discrepancy is not known. The location of the hospital was reported not to have any effect on the implementation of TQM in the hospitals, in contrast to the findings by Whitworth in Uganda on the determinants of attendance to an eye clinic in the country which showed that fewer percentages of those referred to the district hospital attended because of the distance to the referred hospital [39].

#### 4.4. Environmental Factors

The TQM standards were neither written nor communicated to the staff regularly, from the results of the FGD. This is in contrast to what Skiti [23] reported in their study in which they gave a high mean score and a low coefficient of variation in the areas of consistency in updating TQM regulations and performance of routine checks on staff
conformity to the prescribed standards. Similarly, Min et al [38] reported that there is a need for hospitals to constantly increase their awareness and ability to serve patients and meet quality standards through regular communication to staff of the expected standards.

4.5. Economic Factors

Majority of the respondents reported that the subventions from the government were inadequate. The absence of a robust TQM system can result in limited funding, as reported by Min [38]. This could be explained, since out of the recommended 15% national budget allocation to health, only 5% is released. In addition, the absence of a governance structure for TQM as well as processes and extensive staff training on TQM will hinder funding and accreditation of health facilities, Min [38]. The effect of poor funding and non-accreditation felt at all the levels of health care.

4.6. Limitation of the Study

One major limitation to this study was the restriction of this study to only one tertiary public health institution. The responses from this study may not represent what is obtainable in the primary and secondary health institutions.

5. Conclusion

The study shows that the management of UNTH has not shown enough positive attitudes towards implementing the principles of TQM in the hospital resulting from poor allocation of human and material resources to its implementation. Among the different components of TQM, the interpersonal factors were considered lacking in the hospital: this creates a need for the management and staff to revisit the concepts of TQM and review its implementation practices within the hospital. This will help the management and staff to reshape their attitudes towards implementing the principle in the hospital. The equipment available at the hospital were inadequate to support the implementation of TQM in the hospital despite being comparable those provided by other tertiary hospitals in the country. However, there is a need to invest in the implementation of TQM concepts in other tertiary healthcare facilities in South East Nigeria and other geopolitical zones of the country, for similar or divergent trends. Given the perceptions of hospital staff on the implementation of TQM regarding patient care, it is equally important to investigate the patient perceptions of quality of care received from this and other tertiary health facilities. The number of study participants was relatively high, thus giving a lot of insight into the perception of TQM implementation in the tertiary hospital. For secondary and primary health care facilities which have a smaller number of personnel, there should be an exploration of the implementation of TQM in these categories of facilities. Finally, economic factors were found in this study to greatly influence the effective implementation of this principle in the hospital. Overall, the preparedness of the management to the implementation of TQM in the hospital is at the lowest level and the demographic factors examined greatly influenced the implementation. Therefore, more awareness should be created and targeted towards the management and employees of the hospital on the goals of TQM as well as the need for sustaining the programme in the hospital when implemented. It is also important that management demonstrates enough commitment in implementing TQM in the hospital and equally provide the enabling environment for the staff to participate in quality improvement activities: this can commence with training on TQM concepts, systems and implementation. It is very important that the hospital develops methods and procedures to implement these guidelines which Conclusion: make a case for further studies in secondary or primary HF, and also in private. Make a case for studying patient perspectives as against this study which is from the health workers’ perspectives should be made available to all staff and equally placed at strategic places in the hospital.

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