Exploring the Role of Occupational Therapy with Older Adults in Bangladesh



By Fatema Zannat

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Statement of authorship

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Dedication

Dedicated to all the previous mistakes I have made throughout my learning career.

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List of Abbreviations

- **BHPI:** Bangladesh Health Professions Institution
- **BADL:** Basic Activities of Daily Living
- **CBTI:** Cognitive Behavior Therapy Intervention
- **CRP:** Centre for the Rehabilitation of the Paralyzed
- **IRB:** Institutional Review Board
- IADL: Instrumental Activities Of Daily Living
- **OT:** Occupational Therapy
- **WFOT:** World Federation of Occupational Therapists
- WHO: World Health Organization

Abstract

Background: Usually older adults have always been more or less neglected in our country. A number of them even forcefully live separately. Those who live with family, not all of them get the proper care from their family members. In this situation, to ensure their good-being, occupational therapy could be the best solution. Older adults suffer different types of health complicacy like arthritis, cancer, Alzheimer's, falls, substance abuse, depression, sleep problem etc. Occupational therapy can help them fight these diseases, overcome and of course rehabilitation.

Methods: This is a cross-sectional study survey collection quantitative data to be developed to be easily accessible to a large group of occupational therapists. Data was collected from 51 occupational therapists from Savar CRP, Mirpur CRP, and occupational therapists working elsewhere through online. Convenience and snowball method was used regarding this study.

Results: Among the 51 participators, all of them completed the survey though there was partial information missing. 47.1% of them were male and the rest were female. The lowest age was identified 25 and highest was 42. The participants mostly were from undergraduate degree in OT background. The majority of them are from Bangladesh whereas other 2 are from Vietnam and UK. Most of the participants are more or less trained to work with geriatric patients and experienced to do so.

Conclusions: This study aimed to explore the roles of OT with older adults and discovered a number of facts. To serve the profession, it is essential for occupational therapists to understand their roles first, identify the core problems in older adults, highlight the interventions, identify the challenges behind the barriers, prepare themselves by gathering knowledge, experience, proper training, and minimize those challenges to serve the best.

Finally, the roles that occupational therapists are playing with older adults have been explored.

Keywords: Occupational Therapy role, Older adults.

CHAPTER I: Introduction

1.1 Background

While occupational therapists play an integral role in multidisciplinary care for people with chronic conditions, there is little evidence documenting the occupational therapy role for geriatric people. This study aims to explore the roles of occupational therapy about current practice with older adult (Gearman et al, 2016).

Occupational therapy (OT) is accomplished treatment that helps individuals achieving freedom in all areas of their lives. An OT is a board-certified licensed professional who may practice in a wide variety of sceneries for the geriatric population. Treatment includes providing people with the skills necessary for independent and satisfying lives. Services typically include personalized treatment programs to improve the client's capability to perform day-to-day activities. Complete home and job-site assessments with adaptation endorsements. Performance skills assessments and treatment. Adaptive equipment recommendations and usage training guidance to family members and caregivers (Daley et al, 2006).

OT practitioners are skilled professionals whose education embraces the study of human growth and progress, with special importance on the social, emotional, and physiological effects of sickness and injury. The aging procedure often leads to a diversity of illnesses and injuries that can significantly affect the ability of the elderly to complete their day-to-day living activities. OTs hence play a vital role in the establishment of skilled health care services to the geriatric population (Cristian et al, 2006).

A wide variety of OT services can benefit the geriatric population, including the following conditions. Limitations due to a stroke or heart attack. Repetitive stress injuries and chronic back pain or other serious chronic conditions. Vision or cognitive problems that threaten their ability.

The OTs play a vital role as a member of an interdisciplinary team. This team typically includes a doctor, nurse, social worker, physical therapist, and speech therapist (Daley et al, 2006).

A person primarily passes five stages in his lifetime. The stages are infancy, childhood, adolescence, adulthood and old age. Old age starts at sixty and ends in death. Old age is one of the vulnerable conditions in a natural process of life. In this stage, people experience decreased physical strength and weakening health conditions with age related disease. All over the world, percentage of elderly are increasing where numbers of children are decreasing. The statistical data of Bangladesh represent the number of aged population has increased from 1.38 million to 7.59 million from the year of 1974 - 2012. Bangladesh is the seventh over populated (164.69 million) and most densely (1265) person live per square kilometers) country. Besides, the nuclear family is increasing in Bangladesh day by day and older people are left alone living distinctly from their families and becoming vulnerable. This situation demands more health and welfare services and more provision to the elderly support system (Barikdar et al, 2016).

In USA, one study showed that Occupational Therapy practitioners possess a unique and holistic role while working with older adults. By creating a collaborative partnership with the older adults who demonstrates cognitive dysfunction, the OT practitioners can bring the focus of rehabilitation to solving daily occupational performance problems where impaired cognition is a contributing factor. Occupational Therapists are well positioned to make appropriate recommendations or referrals for additional resources for older adults. Occupational Therapists can facilitate a safe transition to pre-illness levels of function, responsibilities, and roles or improve cognitive and functional capacity. The occupational therapist will generally spend more time in adapting or remediating functional impairment rather than trying to remediate the cognitive impairment itself. Occupational therapy practitioners are enablers of occupation. They focus to enhance meaningful occupational performance with everyday roles and routines, for clients across the lifespan. The occupational therapy practitioner to facilitate, restore, or modify the environment or activity/task to promote participation in daily occupations. Occupations are important or necessary activities or tasks, which the client wants or needs to engage in and may include basic activities of daily living (BADL) such as personal hygiene, bathing, dressing, or functional mobility; instrumental activities of daily living (IADL) such as driving and community mobility, financial management or home management; rest and sleep; work and job performance; play; leisure; and social participation. (Munoz et al, 2015).

In an Australian study, they received 1004 responses, half were female (50.9%) and one-fifth (20.1%) aged 65 or over amongst. A chi-squared test for independence found a significant association between gender and knowledge about occupational therapy. Females had a better understanding of the profession responding to the question with good knowledge (14.7%) compared to males from whom (6.9) responded to the question with good knowledge about the profession. Though maximum number of people really don't have the greatest ideas about the role of OT, still some of them have got their thoughts all good. One participant stated- "I think it is a form of physical assistance and exercise training. It would be helpful to older people to keep them physically fitter and in better condition as their bodies age. (Participant: 576)" The occupational therapy association in Australia also conducted a series of awareness program (BTL based) to aware mass people about the significance of occupational therapy. (Rahja et al, 2019)

Another Australian study felt that to explore the roles of occupational therapy with older adult, further research was needed to provide evidence supporting the role and practice of occupational therapy with geriatric patients. Collaborating work with multidisciplinary teams was needed to develop long-term routine treatment pathways that include occupational therapy interventions. They also felt structured needs assessment and care planning, self-management programs, and rehabilitation services that are holistic are recommended to meet the unmet needs of geriatric patients, by multi-disciplinary teams of health professionals. (Buckland et al, 2017)

Another study held in USA, represented four intervention areas within the scope of occupational therapy: cognitive behavioral therapy for insomnia, physical activity, multicomponent interventions, and other interventions strategies. Among these, CBTI targets insomnia, one of the most common sleep problems by modifying dysfunctional perceptions of sleep and unsuitable sleep behaviors. Stimulus control and sleep restriction/compression are core components of CBTI. Eleven studies examined the relationship between physical activity and sleep. Wide range of physical activities, such as resistance training and dancing were prescribed. Multicomponent interventions used multiple sleep intervention strategies to target the various factors impacting sleep; five RCTs and two systematic reviews were included. Three articles

that did not fit the other categories were placed in a miscellaneous group. These articles examined bright light therapy and strategies to enhance the sleep environment. This scoping review identified four sleep intervention areas that improved sleep- all of which fall within occupational therapy's scope of practice. Across these categories, there was a consistent emphasis on modifying existing habits and routines to support sleep quality, participating in physical activity, and initiating engagement in activities that comply with sleep restriction/compression. (Leland et al, 2014)

A different study in Hamburg, Germany showed inspiring results that occupational therapists can work together to meet the challenges that Europe is now facing in terms of the huge increase in number of older adults. Occupational therapists are well suited to contribute knowledge, since the values, beliefs, and ideas related to how occupations contribute to people's health and wellbeing, could be the ideas that Europe applies to meet the needs of the older adults. Research will be a key factor for occupational therapy in Europe in the future. Occupational therapy will become acknowledged as an important part of the European welfare system, especially in the provision of support for older people, they added (Borell et al, 2008)

1.2 Justification of the study

Since, In Bangladesh, there is no research about 'exploring the roles of Occupational Therapy with older adults" but this seems to be very important as there are studies available about this topic in other countries. In Bangladesh, a bigger number of mass people still don't have any compact idea about the role of Occupational Therapy, A lot of them don't even know what Occupational Therapy is. So I thought this topic should come up so that even mass people get to know about Occupational Therapy and its roles and help themselves.

As the aim of this research is to explore the roles of occupational therapy with older adult, I consider this to be very significant. Here in Bangladesh, a bigger number of mass people still don't have any compact idea about the role of Occupational Therapy. A lot of them don't even know what Occupational Therapy is. Moreover, in Bangladesh, there is still no research available on this topic so I thought it needs to be done as soon as possible. As a result, it will help the people to find out what occupational therapy and its role is. It will also be helping the professionals because when people will know about the roles of Occupational Therapy they will go to the CRP as well as other institutes for therapy. By collecting data, the researcher will get benefited when he/she does further research upon this

1.3 Operational Definition

Occupational Therapy

Occupational therapy is a client-cent red health profession concerned with promoting health and well-being through occupation. The primary goal of occupational therapy is to enable people to participate in the activities of everyday life. Occupational therapists achieve this outcome by working with people and communities to enhance their ability to engage in the occupations they want to, need to, or are expected to do, or by modifying the occupation or the environment to better support their occupational engagement. (WFOT 2012)

Older adult

Older people are defined by the United Nations as a person who is over 60 years of age. Old age is the last one among the five stages in the life processes of an individual and it is an age group or generation comprising a segment of the oldest member of a population.

As of 2019, over 13 million people living in Bangladesh are aged over 60 which is 8% of the country's total population. The proportion of older people is expected to double to 21.9% in 2050 with 36 million people aged over 60. This means that for every five Bangladeshis, one will be a senior citizen added (Borell et al, 2008).

CHAPTER II: Literature Review

In USA, one study was completed titled "The Role of Occupational Therapy in Older Adults with Cognitive Impairments and an Oncology Diagnosis". This research didn't use any participants surprisingly. They rather used a number of different studies to reach the conclusion. Both cross-sectional and longitudinal studies have found that accordingly 17% to 75% and 15% to 25% of women treated for breast cancer experienced cognitive deficits in the domains of memory, attention, information from 6 months to 20 years after exposure to chemotherapy that resulted them to experience problems in basic activities of daily living such as personal hygiene, bathing, dressing, or functional mobility, instrumental activities of daily living such as home management, play, leisure, and social participation. By identifying these problems they have reached into the results. Occupational Therapy practitioners possess a unique and holistic role while working with older adults. By creating a collaborative partnership with the older adults who demonstrates cognitive dysfunction, the OT practitioners can bring the focus of rehabilitation to solving daily occupational performance problems where impaired cognition is a contributing factor. Occupational Therapists are well positioned to make appropriate recommendations or referrals for additional resources for older adults. Occupational Therapists can facilitate a safe transition to pre-illness levels of function, responsibilities, and roles or improve cognitive and functional capacity. The occupational therapist will generally spend more time in adapting or remediating functional impairment rather than trying to remediate the cognitive impairment itself. Occupational therapy practitioners are enablers of occupation. They focus to enhance meaningful occupational performance with everyday roles and routines, for clients across the lifespan. The occupational therapy practitioner to facilitate, restore, or modify the environment or activity/task to promote participation in daily occupations. Occupations are important or necessary activities or tasks, which the client wants or needs to engage in and may include basic activities of daily living (BADL) such as personal hygiene, bathing, dressing, or functional mobility; instrumental activities of daily living (IADL) such as driving and community mobility, financial management or home management; rest and sleep; work and job performance; play; leisure; and social participation. The Cognitive

Orientation to daily Occupational Performance approach and the Multi context approach are 2 examples of compensatory approaches that can improve occupational performance through strategy use. (Munoz et al, 2015) In another Australian study, they performed a cross-sectional cohort study a company specializing in online survey programming to registered participants of the general public. The survey was approved by Flinders University Social and Behavioral Research Ethics Committee. All the participants were asked to write a free text response to one question: "What is your understanding of occupational therapy, and do you believe it has a role in supporting older people?" Data were analyzed using both quantitative and qualitative methods. Statistical Package for the Social Sciences version 22 (IBM Corporation, 2013) was used to summarize socio-demographic data. They received 1004 responses, half were female (50.9%) and one-fifth (20.1%) aged 65 or over amongst. A chisquared test for independence found a significant association between gender and knowledge about occupational therapy. Females had a better understanding of the profession responding to the question with good knowledge (14.7%) compared to males from whom (6.9) responded to the question with good knowledge. Of the male respondents (43.2%) reported they did not have knowledge about the profession. Though maximum number of people really don't have the greatest ideas about the role of OT, still some of them have got their thoughts all good. One participant stated-"I think it is a form of physical assistance and exercise training. It would be helpful to older people to keep them physically fitter and in better condition as their bodies age. (Participant: 576)" The occupational therapy association in Australia also conducted a series of awareness program (BTL based) to aware mass people about the significance of occupational therapy. Rahja et al, 2019)

In Australia, a cross-sectional study was completed using the online survey collecting quantitative and qualitative data survey aimed to explore the views of Australian occupational therapists about current practice and what constitutes best practice for cancer survivors. A survey method was used to collect exploratory data from a large sample. The survey was distributed to all occupational therapists who were members of occupational therapy Australia in 2013. Survey questions were developed by reviewing international and Australian literature on the role of occupational therapy and occupational therapy programs. The survey consisted of 31 questions. Survey data were downloaded from SurveyMonkey into SPSS 23. 204 out of (88.6%) 230

occupational therapists fully completed surveys were used for analysis. Eleven respondents (5.4%) reported having experienced a personal diagnosis of cancer, although 30 people (14.7%) did not answer the question. A much larger percentage reported having acted in a caring role for someone with cancer, while 62.3% reported having a close family member with a cancer diagnosis. The remaining 47 participants (23.0%) had experienced none of these. Three quarters of participants considered occupational therapists to have routine involvement in cancer survivorship care, which was more than physiotherapy 69.6%, psychology 64.7%, and speech pathology 52.0%. Twenty other professions and services involved in cancer survivorship care were identified by participants in free responses including dieticians 9.3%, alternative health practitioners 3.4%, music therapists 1.9%, and exercise physiologists 1.4%. Respondents indicated that the following issues were commonly addressed by occupational therapists during cancer survivorship care: equipment needs, fatigue and energy conservation, pressure area prevention and management, lifestyle adjustment etc. The long term implications of survivorship, such as getting back to work, psychosocial needs or managing the after effects of treatment, were not identified as priority interventions for people with cancer. (Buckland et al, 2017)

Another study held in USA, titled- "what is occupational therapy's role in addressing sleep problems among older adults' used systematic summary method included Metaanalyses. The search resulted in an initial sample of 994 articles and in reviewing the titles and abstracts, 70 studies met the initial criteria. After reviewing in full, 36 were excluded. The final sample of 34 articles represented four intervention areas within the scope of occupational therapy: cognitive behavioral therapy for insomnia, physical activity, multicomponent interventions, and other interventions strategies. Among these, CBTI targets insomnia, one of the most common sleep problems by modifying dysfunctional perceptions of sleep and unsuitable sleep behaviors. Stimulus control and sleep restriction/compression are core components of CBTI. Eleven studies examined the relationship between physical activity and sleep. Wide range of physical activities, such as resistance training and dancing was prescribed. Multicomponent interventions used multiple sleep intervention strategies to target the various factors impacting sleep; five RCTs and two systematic reviews were included. Three articles that did not fit the other categories were placed in a miscellaneous group. These articles examined bright light therapy and strategies to enhance the sleep environment. This scoping review identified four sleep intervention areas that improved sleep- all of which fall within occupational therapy's scope of practice. Across these categories, there was a consistent emphasis on modifying existing habits and routines to support sleep quality, participating in physical activity, and initiating engagement in activities that comply with sleep restriction/compression. (Leland et al, 2014)

A different study in Hamburg, named- "Occupational Therapy for Older Adults: Investments for progress" was completed in 2008 by German Association of Occupational Therapists. It was a qualitative study where the researchers took a number of studies and ended up with the results by analyzing them. The study mainly focused on the role of occupational therapists that what should they do and how to do so. They showed inspiring results that occupational therapists can work together to meet the challenges that Europe is now facing in terms of the huge increase in number of older adults. Occupational therapists are well suited to contribute knowledge, since the values, beliefs, and ideas related to how occupations contribute to people's health and wellbeing, could be the ideas that Europe applies to meet the needs of the older adults. Occupational therapists can be experts on design and usability issues. In relation to technology, occupational therapists should move from being consumers and prescribers to become designers and developers, participating in the design and development of new technology and services. Research will be a key factor for occupational therapy in Europe in the future. Occupational therapy will become acknowledged as an important part of the European welfare system, especially in the provision of support for older people, they added. In order to develop new and much needed theory and programs for the ageing society, occupational therapists need to do much more research. This research should emerge from our unique occupational perspective, in contrast to a medical or social perspective that limits our vision and constrains our thoughts. This occupational perspective focuses on the development of knowledge about how occupations relate to health and wellbeing. (Borell et al, 2008) In the first study, we noticed a very clear Occupational Therapy role. They found that Occupational therapists can facilitate a safe transition to pre-illness levels of function, responsibilities, and roles or improve cognitive impairment itself. In the Australian cross-sectional study, the respondents indicated that the following issues were commonly addressed by occupational therapists during cancer survivorship care: equipment needs, fatigue, and energy conservation, pressure area prevention and

management, lifestyle adjustment etc. In another USA study, they mentioned four intervention areas within the scope of Occupational Therapy: cognitive behavioral therapy for insomnia, physical activity, multicomponent interventions, and other interventions strategies as the significant roles of Occupational Therapists. In the Hamburg one, they stated that Occupational Therapists are well suited to contribute knowledge, since the values, beliefs, and ideas related to how occupations contribute to people's health and wellbeing. Actually all these studies almost agree to the roles of Occupational Therapists as this should be.

Although I found all the studies very useful and relevant, there were still some minor limitations like not mentioning the methods they used, findings were not very vibrant. In two studies, the information was a little difficult to find. Another two seemed to be a little unorganized. The biggest gap is, in Bangladesh, there is no research about the role of OT with older adults. That's why I decided to make a study about this. This will help people to know about the role of OT with older adults.

CHAPTER III: Methodology

3.1 Research Question: What is the role of occupational therapy with older adult in Bangladesh?

Aim: This study aims to explore perception about the role of occupational therapy with older adult in Bangladesh.

Objective of the study:

- To determine the way of implementing occupational therapy role for older people
- To explore the perceived barriers in implementing occupational therapy practice with older people
- > To identify strategies in implementing best practice for older people

3.2 Study design

This was a cross-sectional study survey collecting quantitative data to be developed to be easily accessible to a large group of occupational therapists. The cross-sectional design is the best suited method for the presenting a situation over a short period of time. The survey aims to explore the roles of occupational therapy with older adults and the barriers they perceive in implanting best practice. A survey method had been chosen because it is considered as effective, relatively inexpensive and ethical way to collect data from a sample.

3.3 Study setting and period

The study was conducted by Occupational Therapists who are working with older adults. The period of the study was from 14th April 2021 to February 2022.

3.4 Study participant

Study population

The researcher collected data from those Occupational Therapists who were working with older adults in Savar CRP, Mirpur CRP, and Ganakbari CRP.

Sampling Method

The researcher was using convenience and snowball sampling method regarding this study. The researcher used this sample because she conveniences occupational therapist to collect the data.

Sample size

This study sample size is n=51 occupational therapist who fulfilled the inclusion criteria of this study. Findings the appropriate number of people and types of people to take part in study called sampling (Hicks, 2000).

Inclusion Criteria

Occupational Therapists who have been/have experienced working with geriatric patients.

Exclusion Criteria

- Occupational Therapists who is not working/never worked with geriatric patients.
- > Those who are not interested to participate.

Participant recruitment

The survey was distributed to those occupational therapists who have been working/have worked with older adults and are interested to participate by providing data. Potential participants will be informed that involvement in the study was confidential, anonymous, and voluntary. 40-50 participants were selected to participate in the research.

3.5 Ethical consideration

- > The researcher took permission from IRB (institutional review board).
- > The researcher made a consent form for taking permission from people.
- > All people were informed about the study.
- The researcher maintained the confidentiality when he or she collected the data.
- Ensured all people about that they don't get any financial support from the study.

- In this research, people didn't face any risk when they give information, researcher ensured that.
- The researcher maintained equal relationship when he or she talked with the people.
- The researcher was concerned about the effect of biasness as the sample usually selected by inclusion and exclusion criteria.

3.6 Data collection

A self-developed survey questionnaire was used to collect data which was designed from different articles containing various questions for occupational therapists working with geriatric patients. The first half prioritized on socio-demographic information and second half aimed to barriers to best practice, opinions about the best time for occupational therapy, therapeutic gap, training needs for occupational therapists etc. with older adults.

Data collection tools

Eight Data Collection Tools for collecting data as well as some other materials were also used. Tools or materials that were used for data collection are Mobile taperecorder, Paper, Pen, Clip board.

3.7 Data management and analysis

The data was analyzed into SPSS 23. The data was cleaned by identifying missing variables, and any incorrect entries, such as including comments, related to another questions.

The data analysis mainly involved the transcript of the interviews, identifying themes and then incorporating those themes into the next stage of data collection. Same questions were asked to the participants by preparing a semi structured question. The question was analyzed to data analysis. It was done by content analysis.

3.8 Quality control and Quality assurance

All data collection was accurately done with the concern of respective supervisor and followed all instructions. Before using the test, ensured that the using methods which have been validated as fit for the purpose. Before starting the data collection, field test was conducted with four participants. Before the time of final data collection, it was necessary to conduct a field test to help the researcher for purifying the data collection 23 plan and also justify the reliability and validity of the questioner fit the participants. From the field test the researcher was aware about which part of the question participant found difficulty or they did not understand properly. By doing this researcher got chance to rearrange the questionnaires to make it more understandable and clearer for the participants.

CHAPTER IV: Results

Table 4.1: Socio-demographic characteristics of the participants

Variables	Category	Frequency (n)	Percentage %
Sex	Male	24	47.1
	Female	27	52.9
	25-30	35	68.6
Age	31-35	10	19.6
	36-40	6	11.7
	Assistant dagraa in OT	5	9.8
	Assistant degree in OT		
Occupational	Diploma degree in OT	2	3.9
Therapy	Undergraduate degree in OT	26	51
Qualification	Masters in OT	12	23.5
	Masters in other discipline	8	15.7
Country	Bangladesh	49	96.1
of practice	Vietnam	1	2
	UK	1	2
	Educator	2	3.9
Professional		2 9	3.9 17.6
	Manager		
role	Practitioner	40	78.4
	Researcher	2	3.9
Working	1-6	33	64.7
experience	7-12	11	21.6
as OT	13-21	5	9.8
	0	2	3.9

Working1-42039.2experience7-12713.7as OT023.9with geriatric1251EmploymentNon-government organization2651Rehabilitation center2651sectorHospital/inpatient service23.9Research/education/universities35.9WorkingDivisional city713.7locationRural23.9
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Research/education/universities35.9Capital city4078.4WorkingDivisional city713.7locationRural23.9
Capital city4078.4WorkingDivisional city713.7IocationRural23.9
WorkingDivisional city713.7locationRural23.9
WorkingDivisional city713.7locationRural23.9
location Rural 2 3.9
Urban 2 3.9
A-Acute care 3 5.9
PA Administration/management 3 5.9
PA-Aged care 1 2
Community 1 2
Mental Health 2 3.9
Primary Ergonomics 4 7.8
area Outpatients 17 33.3
of practice Pediatrics 7 13.7
Private practice 1 2
Rehabilitation 13 25.5
Academic 3 5.9
N/A 1 2

A total of 51 occupational therapists were eligible for the study and all of them completed the surveys though 23 of them missed a single question. (n= 24, 47.1%) of them were male and rest (n= 27, 52.9%) were female. The lowest age was identified

25 and highest was 42. A maximum of (n=35, 68.6%) were from the age range of 25-30. (n=26, 51%) of them participators have undergraduate degree in OT, (n=12, 1)23.5%) of them have Master's Degree in OT, and others are from masters in other discipline, some have assistant degree in OT, and a couple of them are from Diploma background also. The lion's share of them participants is from Bangladesh whilst two joined from abroad. (n = 40, 78.4%) of them have been working as OT practitioner, a significant number have been serving as manager, and there are educators and researchers as well. We have got a good number of participants have an experience of 1-6 years, some have 7-12 years' experience, a few are very experienced and only a couple of them with experience less than a year. (39.2%) of the participants are moderately experienced of working with geriatric patients. Several of them have an experience of 5-15 years of working with geriatric and (78.4%) have experience less than a year. The participants are found to be working in NGO and rehabilitation centers mostly whereas a few of them are in hospital/inpatient service, research/education sector, and in commercial service as well. A supreme of (n= 40, 78.4%) are working in capital city whilst others are from Divisional cities, Rural areas Urban areas respectively. Every participant is working full time. (33.3%) work in outpatients as their primary area of practice, (n=13, 25.5%) in rehabilitation, and there are others in pediatrics, ergonomics and almost everywhere correspondingly.

(n=11, 21.6%) of them have very well specific relevant training to work with geriatric patients whilst (n=10, 19.6) said their training is sufficient according to their role. (n=18, 35.3%) of them have insufficient training for the job, they said and (n=8, 15.7%) of them don't have any training at all. (n=50, 98%) of them have experience of webinar, (n=22, 43.1%) had undergrad level training. (n=6, 11.8%) have attended educational course, (n=4, 7.8%) have mentoring experiences, (n=1, 2%) has had masters level course. 9 among 51 have achieved certificates from senior citizens as well.

(n= 6, 11.8%) of them are serving only geriatric patients. Another (n= 6, 11.8%) mostly work with geriatric people. a maximum number of (n= 32, 62.7%) sometimes work with older adults and (n= 4, 7.8%) of them don't work with senior citizens as OT.

(n=40, 78.4%) of them have been working as OT practitioner, (n=9, 17.6%) have

been serving as manager, (n=2, 3.9%) are educators and researchers as well.

The participants were asked to mention how much time they spend with different age groups of people. With children, they mostly spend time with (n=33, 64.7%). (n=7, 13.7%) never work with children. With adult (19-64+) they work most too (n=43, 84.4%). (n=40, 78.4%) of them work with senior citizen 64+. They were also asked to mention how much they work with different professionals and only 28 out of 51 replied this section. Among 28, 20 of them more or less work with doctor. With nurses 19 of them work. 22 work with physiotherapists as well. They also work with social worker, prosthetics, and psychologists very often.

Variables	Never	Occasionally	Often	Very Often	N/A
	-	10	10	10	10
	7	12	10	10	12
Fall Prevention	13.7	23.5	19.6	19.6	23.5
a i	10	10	0	2	10
Community	12	18	8	3	10
Based Older	23.5	35.5	15.7	5.9	19.6
	_	1.6	10	10	10
Adult	5	16	10	10	10
Fall Prevention	9.8	31.4	19.6	19.6	19.6
Geriatric	6	17	14	4	10
Mental Health	11.8	33.3	27.5	7.8	19.6
Sleep	8	15	12	3	13
Quality	15.7	29.4	23.5	5.9	25.5
Improve					
Spiritual Care	6	17	11	7	10
	11.8	33.3	21.6	13.7	19.6
Cognitive	6	11	16	8	10
Perceptual Care	11.8	21.6	31.4	15.7	19.6
Walking Aids	4	12	18	7	10
	7.8	23.5	35.3	13.7	19.6
Assistive	3	13	20	10	5
Technology	5.9	25.5	39.2	19.6	9.8
	5	11	18	9	8
	9.8	21.6	35.5	17.6	15.7

 Table 4.2: Possible intervention for senior citizen

The participants were asked to mention, with senior citizen, how often they spend working with different interventions and the most significant interventions found are Assistive technology(n=43, 84.3%), walking aids(n=37, 72.5%), wheeled & seated mobility(n= 38, 74.7%), and adult fall prevention(n=36, 70.6%). Then come other interventions like spiritual care(n=35, 68.6%), geriatric mental health (n=35, 68.6%) and cognitive perceptual trainers (n= , 35, 38.7%) respectively.

Table 4.3: Possible barriers

Domain	Yes	No
Lack of experience	34	17
	66.7	33.3
Lash	25	26
Lack	25	26
of interdisciplinary	49	51
communication		
Lack of ability to	29	22
containing	56.9	43.1
professional	50.7	13.1
-		
education		
Limited referral	38	13
	72.5	25.5
	•	22
Lack of ability to	28	23
inadequate	54.9	45.1
education in OT for		
student		
Limited	26	25
self-advocacy	51	49

The participants also mentioned about the possible barriers that they have been facing like (n = 34, 66.7 %) of agreed upon 'lack of experience'. (n = 25, 49%) stated upon 'lack of interdisciplinary communication'. (n= 29, 56.9%) said yes to lack of ability to containing professional education. (n= 38, 72.5%) for limited referral, (n= 28, 54.9%) lack of ability to inadequate education in OT for students. (n= 26, 51%) agreed upon limited self-advocacy.

Domain	Yes	No
Lack	38	13
of	74.5	25.5
available materials		
Lack	40	11
of available training	78.4	21.6
for OT		
Lack	36	15
of responsibility for	70.6	29.4
providing care in		
geriatric		
-		
Lack of opportunity		
to	33	18
Ensure	64.7	35.3
safe, appropriate &		
continuous service		
Lack		
of	36	15
referral mechanism	70.6	29.4
to identify people		
need		
Lack of time &staff	40	11
capacity to meet	78.4	21.6
need		

Table 4.4: Availability of need

Lack of wheeled &	25	26
seated mobility	49	51
device provision		

The occupational therapists also gave their valuable opinion on availability of needed infrastructure for providing care of geriatrics. (n= 38, 74.5%) said yes to lack of available materials or supply conducting assessment care of intervention. (n= 40, 78.4%) agreed upon lack of available training for OT. (n= 36, 70.6%) think lack of clarify about responsibility for providing care for geriatrics. (n= 33, 64.7%) for lack of opportunity for follow up to ensure safe, appropriate, and continuous service. (n= 36, 70.6%) said yes to lack of screening any referral mechanism to identify people in need or geriatric service. (n= 40, 78.4%) said yes to lack of time and staff capacity to meet need. (n= 25, 49%) of participants made responsible the lack of wheeled and seated mobility device provision.

This study engaged 51 participants. The questionnaire was sent to all of them at the same time but it was unfortunate that the response didn't arrive in time. Only 26 of them provided 100% information. On the other hand the rest 25 provided more or less partial information and a number of information was missing too. That decreased the validity of this study.

CHAPTER V: Discussion

The aim of this study was to explore the role of Occupational Therapy with geriatric patients. Occupational therapists are well positioned to make appropriate recommendations or referrals for additional resources for older clients. Occupational therapists can facilitate a safe transition to pre-illness levels of function, responsibilities, and roles or improve cognitive and functional capacity thus 51 occupational therapists took participation in the survey. This study identifies the roles of occupational therapy and provides information about the socio-demographic details of occupational therapists, their activities and experience with geriatric patients, barriers and limitation they usually face, how they overcome, their opinion towards the better result in daily activities.

Socio-demographic details of occupational therapist:

51 occupational therapists took part in this study and most of them were female (52.9%). The age range of between 25 to 42 in which majority (68.6%) were from 25-30. Most of the respondents had undergraduate degree in OT, and others were from master's degree in OT, assistant degree in OT, and diploma background also. 49 respondents of 51 are from Bangladesh and two are from Vietnam and UK. (78.4%) of the respondents has been working as OT practitioner, a noteworthy number have been serving as manager, and there are educators and researchers as well. Most of the participants are working in NGO and rehabilitation center whilst a few of them are in hospital/inpatient service, research/education sector, and in commercial service as well. A majority of (78.4%) are working in capital city whilst others are from Divisional cities, rural areas, and urban areas respectively. Every participant is working full time. (33.3%) work in outpatients as their primary area of practice, (25.5%) in rehabilitation, and there are others in pediatrics, ergonomics and almost everywhere correspondingly. (11.8%) of them are serving only geriatric patients. Another (11.8%) mostly work with geriatric people. a maximum number of (62.7%) sometimes work with older adults and (7.8%) of them don't work with senior citizens as OT. (78.4%) of them have been working as OT practitioner, (17.6%) have been serving as manager, (3.9%) are educators and researchers as well. Not all the respondents are dedicatedly working with older adult. Some of them (11.8) are working their full with only geriatric patients. Another (11.8%) have their most working with geriatric people. (62.7%) of them are sometimes working with older adult, and there are the rest (7.8%) who are not working with them. Almost half of the participants are well-trained to work with geriatric patients whereas the rest are not properly trained, or not trained at all, they mentioned. The respondents have had different types of training like some had been trained at their undergrad level, some from their master's level courses, some also attended webinar also. With senior citizen 64+, (15.7%) respondents never worked. (13.7%) work occasionally. A good number of (33.3%) often work with 64+ older adult. Another 31.4% work with them very often. It is a good sign too that the occupational therapists have been working with almost all kinds of professionals like doctors, nurses, physiotherapists, social workers, prosthetics, psychologists etc.

The respondents were asked to provide information about how much they work with different interventions like fall prevention, geriatric mental health, spiritual care, walking aids, wheeled and seated mobility etc. in several categories. From their reply, we came to know that they mostly work with adult fall prevention, walking aids, assistive technology, wheeled and seated mobility. They also work with other interventions like sleep quality improvement, spiritual care, community based, geriatric mental health and cognitive perceptual trainers individually. From the participant's response it is clear that all the respondents work on all the interventions more or less.

(Kloubec and colleagues 2012) Regarding specific fall-related outcomes, found a significant improvement for older adult in balance confidence, a reduction in fall rate, and enriched gait speed.

Szanton and colleagues 2011, found improved occupational performance through a reduction in ADL and IADL impairments, improved QOL, and increased falls self-efficacy.

(Di Monaco et al. 2008) identified that positive effects were found on outcomes, such as reductions in fall risk, number or rate of falls, injurious falls, and fear of falling or improvements in balance confidence, balance and mobility skills, awareness of fall reduction strategies, and use of measures to reduce fall risk.

Szanton et al. 2011, suggested that energy conservation strategies, safe assistive device use, home modification recommendations, assistive devices, self-efficacy are

some of the interventions that found to be highly effective for occupational therapists to treat geriatric people.

(Thuli G Mthembu et al. 2016) found that spiritual care could be useful for occupational therapists to have insight into and be sensitive to, older adult's spiritual needs. Furthermore, the results of this study suggested that spiritual care could be used by other healthcare professionals as part of continuous professional development.

There are several barriers that the participants often experience. They also mentioned about those possible barriers that they have been facing like 66.7 % of them agreed upon lack of experience whilst we previously came to know that not all of them are properly trained. 49% stated upon 'lack of interdisciplinary communication. 72.5% pointed 'limited referral'. 56.9% said yes to lack of ability to containing professional education. 54.9% lacked of ability to inadequate education in OT for students. 51% agreed upon limited self-advocacy. So, one thing for sure that almost every participant faces at least one barrier/limitation that they identified. Hench this limitation is recoverable.

(Netta Van't Leven 2012) found that the barriers that confronted occupational therapists were lack of knowledge about occupational therapy and its reimbursement and lack of available trained OTs. Lack of referral was another significant barrier that challenged OT's with geriatric patients, found in this study.

The occupational therapists also mentioned on availability of needed infrastructure for providing care of geriatrics. (74.5%) said yes to lack of available materials or supply conducting assessment care of intervention. (78.4%) agreed upon lack of available training for OT. (70.6%) think lack of clarify about responsibility for providing care for geriatrics. (64.7%) voted for lack of opportunity for follow up to ensure safe, appropriate, and continuous service. (70.6%) said yes to lack of screening any referral mechanism to identify people in need or geriatric service. (78.4%) said yes to lack of time and staff capacity to meet need. (49%) of participants made responsible the lack of wheeled and seated mobility device provision.

(Annie McCluskey 2003) found several needed infrastructures that can be considered as significant barriers for occupational therapists including lack of available materials, lack of wheeled and seated mobility device provision, lack of available and suitable training for occupational therapists.

CHAPTER VI: Conclusion

6.1 Strength & Limitation

This topic was indeed very relevant to my study which I have considered as a strength for me. All my participants were very skilled and experienced which had added extra values to my study. I certainly got superb co-operation and support from my supervisor and the participants both.

Regarding this study, there were some limitations and barriers to consider the result of the study as below: Limited research articles. Another major limitation was time. A number of respondents took too long to submit their opinion that might have hampered the quality of this study. As the response rate was low, the findings were used with caution and regarded as preliminary. A low response rate might have been indicative of a lack of interest in this topic.

6.2 Practice Implementation

Not only the interpreting the findings of this study may help occupational therapists for further information but also the result statistics may benefit OT practitioners to get a clearer idea about geriatrics. In Bangladesh, there is still no research available on this topic so it will disseminate knowledge. The researcher herself will get benefited when she does further research upon this.

Recommendation

- Occupational therapists need to perform much more research.
- Occupational therapists should implement a broader role and holistic treatment techniques for their clients.
- Occupational therapists also need to gather knowledge and experience as well as train themselves properly to outrun the barriers.
- The investigator also recommends that occupational therapists care to study this research in depth. The investigator also recommends that occupational therapists care to study this research in depth.

6.3 Conclusion

This study aimed to explore the roles of OT with older adults and discovered a number of facts. To serve the profession, it is essential for occupational therapists to understand their roles first, identify the core problems among older adults, highlight the interventions, identify the challenges behind the barriers, prepare themselves by gathering knowledge, experience, proper training, and minimize those challenges to serve the best.

Understanding the roles properly and gathering relevant knowledge will not only be helping the occupational therapists to serve best but also create awareness among mass people about the role occupational therapy offers which will address misconception among common people and thus lead to a healthy ageing.

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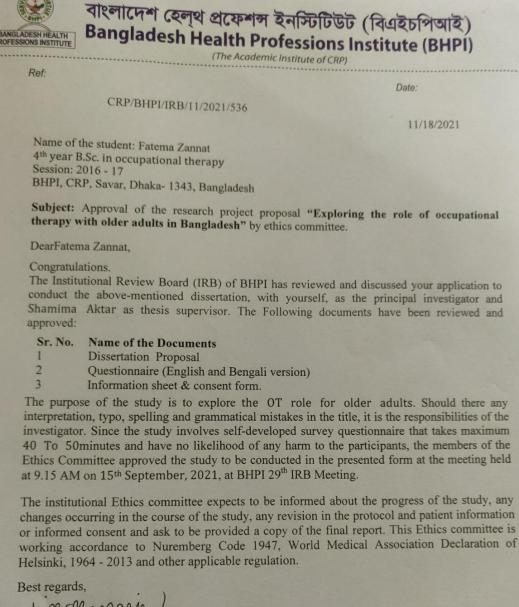
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APPENDICES A: Clearance form



Muhammad Millat Hossain Associate Professor, Dept. of Rehabilitation Science

Associate Professor, Dept. of Rehabilitation Science Member Secretary, Institutional Review Board (IRB) BHPI, CRP, Savar, Dhaka-1343, Bangladesh

CRP-Chapain, Savar, Dhaka-1343, Tel : 7745464-5, 7741404 E-mail : principal-bhpi@crp-bangladesh.org, Web: bhpi.edu.bd, www.crp-bangladesh.org

APPENDICES B: Information sheet

Bangladesh Health Professions Institute (BHPI) Department of Occupational Therapy CRP- Chapain, Savar, Dhaka-1343.

Information sheet

Title: Exploring the role of occupational therapy with older adults in Bangladesh. **Researcher:** Fatema Zannat, B.SC in Occupational Therapy (4th year), Session 2016-2017, Bangladesh Health Professions Institute (BHPI), CRP- Savar, Dhaka- 1343 **Supervisor:** Shamima Akter, Assistant Professor, Department of occupational therapy, Bangladesh Heath Professions Institute.

Place: The researcher will gather data from Occupational therapist who works with the older adult in different organization.

Introduction

I am Fatema Zannat studying under the medicine faculty of Dhaka University in Bangladesh health professions institute as a student of honors (2016-2017) 4th year in the department of occupational therapy. To complete B.SC in occupational therapy from BHPI conduct a research project is mandatory. This research project will be done under the supervision of Shamima Akter, assistant professor of occupational therapy department. By this information sheet investigator presented detailed information about the study purpose, data collection process, ethical issues. If you are interested to participate in this study, then clear information about the study help you to easily make decision. If this consent form contains some words that you do not understand, please ask me to stop. I will take time to explain. Information about the study participants will keep confidential and the aim of the study will be informed to the participants. If you cannot understand any part of the investigation, Investigator will help you to understand.

Background and Purpose of the study

As we all know, older adults are a consecration for a nation though in an over populated country like Bangladesh, they are often being mistreated. People repeatedly overlook to show them older adults their due care. In our society, a good number of older adults living independently, getting sick, and sleeping alone don't even have someone to talk to. On the other hand, comes another group, who live with their dearest one, shockingly many of them feel lonely too. Accordingly, they experience different mental disorder like depression, sleeping disorder, social phobia, 'end of life issue' etc. An occupational therapist can treat them geriatrics and bring them out of this despondent life. But sadly, in our country, the "role of OT with geriatrics" is not yet very popular, so the patients, who need specialized therapy, are getting treated by ordinary nurses. This gives Occupational therapists the opportunity to prompt their diversified roles, and responsibilities and this is very much significant for another reason that there is no such investigation done here in Bangladesh yet in this context.

Research related information

The information about research will be discussed with you throughout the information paper before taking your signature on consent form. After that participants will be asked to complete a self-developed questionnaire which may need forty to fifty minutes to fill out. In this questionnaire, there will be questions on socio-demographic factors (for example: Age, sex, experience, work location, employment sector etc.) Particularly, in this research, we have selected those occupational therapists who have been working with the geriatrics.

The data collection period will be fifteen to twenty days followed by the date of approval. During that time, the investigator will visit you to conduct face-to-face interview or contact via e-mail/video conference. If you do not want the questions, you may skip them and move on to the next question. The information recorded is confidential, your name is not being included on the forms, only a number will identify you, and no one else except Shamima Akter, Supervisor of the study will have access to this survey.

Voluntary Participation

Your participation and choice will not have any effect on your job or on any workrelated evaluation or reports. You can change your mind at any time of the data collection process even throughout the study period. Even you have the right to refuse your participation if we both agree.

Right to Refuse or Withdraw

You will be given an opportunity at the end of the interview to review your remarks, and you will have the chances to modify or remove portions of those.

Risks and benefits

You are being asked to share a few personal and confidential information, so you may feel uncomfortable while talking about some of the topics. You do not need to answer any question or take part in the discussion/interview/survey if you don't wish to do so, and that is okay too. You do not have to give us any reason for not responding to any question, or for rejecting to take part in the interview. On the other hand, you may not have any direct benefit by participating in this research, but your valuable participation is likely to help us finding out more about existing situation of the inter professional collaborative practice in this context.

Confidentiality

Your information will not be shared to anyone outside of the research team. All the information that we are collecting from this research project will be kept private. Any information about you, will have a number on it instead of your name. Only the researchers will have the access to know what your number is and we will be locking that information up with a lock and key. It will not be shared with or given to anyone except Shamima Akter, study supervisor.

Sharing the Results

Nothing that you tell us, will be shared with anybody outside the research team, and nothing will be attributed to you by name. The knowledge that we get from this research will be shared with you before it is made widely available to the public. Each participant will receive a summary of the results.

Wage

No wage or financial advantage will be provided to the participant during/for this research purpose.

Funding

The funding that will be needed for this study will be collected from investigator's own source. This study will be conducted in a small range and no external source will be available for this study.

Who to Contact

If you have any questions, you can ask them now or later. If you wish to ask questions later, you may contact any of the following: Fatema Zannat, 4th year student, Department of Occupational Therapy, e-mail: fatemazannatlucky20@gmail.com, Cell phone- 01869123553.This proposal has been reviewed and approved by Institutional Review Board (IRB), Bangladesh Health Professions Institute (BHPI), CRP-Savar, Dhaka-1343, which is a committee whose task it is to make sure that research participants are protected from any harm. If you wish to find about more about the IRB, contact Bangladesh Health Professions Institute (BHPI), CRP- Savar, Dhaka-1343. You can ask me any more questions about any part of the research study, if you wish to. Do you have any questions?

Consent Form

Statement by Participants

I have been invited to participate in research about exploring the roles of Occupational Therapy with older adult in Bangladesh.

I have read the foregoing information, or it has been read to me. I have had the opportunity to ask questions about it and any questions I have asked, answered to my satisfaction. I give my consent voluntarily to be a participant in this study.

Name of Participant

Signature of Participant _____

Date _____

Statement by the researcher taking consent

I have accurately read out the information sheet to the potential participant, and to the best to my knowledge, I made sure that the participant understands that the followings will be done:

- 1. All information will be used for research
- 2. The information will be completely confidential.
- 3. The identity of the participant will not reveal

I confirm that the participant was given an opportunity to ask questions about the study, and all the questions asked by the participant, have been answered correctly and to the best to my knowledge. I confirm that the individual has not been forced into giving consent, and the consent has been given freely and voluntarily.

A copy of this ICF has been provided to the participant.

Name of Researcher taking the consent_____

Signature of Researcher taking the consent_____

Date _____

APPENDICES C: Questionnaire

Are you an occupational therapist?
Yes
No
Gender
Male
Female
Telliale
Please mention your age:
Occupational therapy qualification
Assistant degree in occupational therapy
Diploma in occupational therapy
Undergraduate degree in occupational therapy
Master's degree in occupational therapy
Master's degree in other discipline
How would you describe your professional role (select all that apply)
Educator/Academic
Manager/director
Practitioner
Researcher
Retired
Not working
Other (please specify)
Country of practice
Experience working as an Occupational therapist
Experience working as an occupational therapist with geriatric population
Practice setting where you are working now (select all that are applicable)
Non-government organizations
Rehabilitation centers
Community services
Government ministries
Individual homes & home care services
Inpatient services/hospitals
Commercial/private practice

Nursing and residentic	al cara homos		
v			
	icilities		
	l/researcn		
Non-applicable/others			
 rking location			
Kulai			
nlovment status			
	r		
	gement		
	gement		
OH&S/Occupational rehabilitation/ergonomics			
1			
Not currently in an oc	cupational therapy role other		
your work of on occura	tional thoronist do you consider that		
	people is involved with geriatric care		
	th people is involved with genatic care		
· · · · · · · · · · · · · · · · · · ·			
Some of your work with people is involved with geriatric careNone of your work with people is involved with geriatric care			
	th people is involved with genatic care		
11011-applicable			
-	c people, how often is your time spent working with group		
	Never		
	Occasionally		
	Offen		
	Often Very often		
	Oncology Outpatients Paediatrics Palliative care Private practice Rehabilitation Research/ academic Not currently in an oc our work as an occupa All of your work with Most of your work with Some of your work wi None of your work wi Non-applicable		

	Adult (ages 19-64		
	years)		
		Never	
		Occasionally	
		Often	
		Very often	
		Non-applicable	
	Seniors/ Senior		
	citizens (ages 64+		
	years)		
		Never	
		Occasionally	
		Often	
		Very often	
		Non-applicable	
-			
-	Frequency of		
	working with		
	senior citizens		
		Everyday	
		Frequently	
		Sometimes	
		Rarely	
		Never	
Pleas	se describe vour leve	l of training specific to your work with senior citizens	
I ICu.	More than you curre		
	A sufficient amount		
	An insufficient amount of your role		
	No training but specific training is not necessary		
	Non applicable		
Pleas	se describe the type (of training you received specific to work with senior	
citize	• =	of training you received specific to work with senior	
CICIEC		undergrad occupational therapy program	
	Masters level course specific to geriatric		
	Others in-person continuing educational course		
	Online webinar or e-learning module		
	Mentoring/ Supervised practice		
1	Other (please specify)		
	None of above		
Have	vou obtained certif	icate for your role with senior citizens	
11470	Yes	Nucleon your role with senior creating	
	No		
	110		
Tre	 	h sonion siting how after de sure a la sul sul de	
•	In your current work with senior citizens, how often do you work with the following professionals		
10110			
	Doctor		

	Never
	Occasionally
	Often
	Very often
N	Non applicable
Nurse	Norm
	Never
	Occasionally
	Often
	Very often
	Non applicable
Physiotherapists	N
	Never
	Occasionally
	Often
	Very often
	Non applicable
Social worker	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Prosthetics	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Psychologist	
	Never
	Occasionally
	Often
	Very often
	Non applicable
	r citizens, how often you spend working with the
following intervention:	
Fall prevention	
Intervention	NY.
	Never
	Occasionally
	Often
	Very often
~ .	Non applicable
Community – based older	
	Never
	Occasionally

	Often
	Very often
	Non applicable
Adult fall prevention	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Geriatric mental health	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Sleep quality improve	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Spiritual care	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Cognitive perceptual	
trainers	Nerre
	Never
	Occasionally
	Often Verwoften
	Very often
Wallingadda	Non applicable
Walking aids	Never
	Occasionally Often
	Very often
	very often
	Non applicable
A aai-4!	Non applicable
Assistive technology	Non applicable
	Non applicable Never Occasionally

	Often
	Very often
	Non applicable
Wheeled and seated mobility device provision	
	Never
	Occasionally
	Often
	Very often
	Non applicable
Possible barriers	
Lack of	
experience	
experience	Yes
	No
	NO
Lack of interdisciplinary communication	
	Yes
	No
Lack of ability to containing professional education	
	Yes
	No
Limited referral	Yes
	No
Lack of ability to inadequate education in occupational	
therapy preparation for student	
Stutelli	Yes
	No
	110
	X 7
Limited self- advocacy	Yes

No	
NO	
Availability of needed infrastru	icture for providing care of geriatric
Lack of available materials	
or supply conducting	
assessment care of	
intervention	
	Yes
	No
Lack of available and	
suitable training for	
Occupational Therapist	Vac
	Yes No
	110
Lack of clarify about	
responsibility for providing	
care for geriatric	
	Yes
	No
Lack of opportunity for follow	
up to ensure safe, appropriate,	
and continuous service	
	Yes
	No
Lack of screening any referral	
mechanisms to identify people	
in need or geriatric service	Vac
	Yes
	No
Lack of time and staff	
capacity to meet need	
	Yes
	No
	'
Lack of wheeled and seated	
mobility device provision	
	Yes
	No