"Biopsychosocial Needs of Elderly Population in Selected Community Area of Doiwala, Dehradun, Uttarakhand"

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Arpita Bali¹, Dr Grace M. Singh², John Davidson³, Sandhya Negi⁴

1PG Student, Mental Health Nursing Department, Himalayan College of Nursing, Dehradun Uttarakhand, India. 2Associate Professor, Mental Health Nursing Department, Himalayan College of Nursing, Dehradun Uttarakhand, India. 3Nursing Tutor, Community Health Nursing Department, Himalayan College of Nursing, Dehradun Uttarakhand, India. 4Nursing Tutor, Mental Health Nursing Department, Himalayan College of Nursing, Dehradun Uttarakhand, India.

Corresponding author: Dr. Grace M. Singh2*

Himalayan College of Nursing, Swami Rama Himalayan University, Jollygrant, Dehradun, Uttarakhand, India.

Email ID: gmadonnasingh@srhu.edu.in

Mobile Number: 6394781672

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Abstract

Objectives: The aim of the study to explore the Biopsychosoical needs of the elderly population in selected community area, to uncover the problems faced by the elderly population in day to day activities.

Methodology: This is the Quantitative Research Approach, survey research design was adopted to investigate the Biopsychosocial needs among elderly population. 135 elderly populations aged 60-90 years, were selected by total enumerative sampling technique and data was collected by structured interview schedule method.

Result: the finding reveled that Biopsychosocial need in elderly population was associated with demographic characteristics, As most of the sample (80.74%) had their biological needs arise in personal hygiene. Then the most of the participants (85.92%) had need arise under Psychological needs in the leisure time. Moreover, more than half of elderly population (57.77%) had sociological needs arise in the family relation/social environment. On determining the correlation between the biological, psychological and sociological needs it was find that there was moderate positive correlation among them. As non parametric test was applied and it was found that there was statistically association was found only in the group of previous knowledge regarding Biopsychosocial needs of elderly associated with socio demographic variable among elderly population.

Conclusion: In overall assessment of Biopsychosocial needs. It had all three needs that are falling more towards the needs arise in each component of items under each domains.

1. Acknowledgement

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Health is consider to be a fundamental human right and it is a social goal worldwide that is essential for the satisfaction of the human basic needs that has to be attained by all the people. So the global population of the elderly is estimated to be double from 12% to 22% population had increased to two billion, 60 years and above. As it has been seen that elderly population faces more physical, psychological and societal challenges which is need to be recognized. This elderly population have their unique stages of life upbringing regarding about their particular needs that is (biological, psychological, and sociological) so that one may have better fulfillment of needs and can live there life in respectful way.²

Hence, these Biological needs are the essential part of the human life span; right from birth of the person, until



he becomes old it especially focuses on a specific changes found in every aspects of life. So the biological changes in elderly population can lead to the impairment of structural changes and self- regulation, degeneration of cell, and functional changes in tissue or organs that may lead changes from physiological to psychological that had been seen among elderly population.3

Moreover, the Psychological needs of elderly population also pays the significant role to have a better place for their independence and to build up a strong emotional bond, which will help them to maintain their realistic setting and also help them to achieve personal growth and sense of security. If these needs are not fulfilled then, the behavior changes among elderly population may develop the tendency of certain changes. Hence, this could hinder their self-esteem and can lead in development of feeling of disrespect in their family.4

In terms of Sociological needs are the real factors that control the life of the elderly populations' health and welfare as well as it is an important issue to maintain their rights. These are defined as the physical, emotional and intellectual needs. As due to lack of participation as a family member, due to loss of their physiological system, also the loss of psychological systems lead to the exploitation in their rights, may leads them to be felt unwanted in the society.5

As the present crisis is an unprecedented in the global cases it can lead to the risk factors, which will add more impact on psychological effects in elderly populations and may provide effects on their physiological health as well that may impact on quality of life in social participation in our community.^{6,7}

The Research Question

What are the Biopsychosocial Needs of elderly populations in selected community area of Dheradhun?

What is presently on this subject?

The Biopsychosocial needs are foremost requirement in today's scenario for the age group of elderly population as these needs are those which refers to needs of elderly arising due to physiological changes in their body for which they required assistance, In this study Biopsychosocial needs were expressed in terms of problem faced by them while carrying their day to day activities.

What does this article add to the existing knowledge?

Biopsychosocial needs among elderly may differ In terms of activities they performed in there day to day activities and also on the basis of the Biological, Psychological and Sociological needs

What are the implications for practice?

- 1. The present study will motivate the Nursing students to learn about the Biopsychosocial needs of elderly to educate them regarding the importance and health benefits of these needs among el derl v.
- 2. The nurses of the various department can assess these needs among elderly 3.During and discharge the nurse administrator should insist staff nurses to conduct needs assessment before the discharge of patient
- 4. As this study will bring more new facts at different settings such as Hospital area, mentally ill elderly and also it can further take down in old age, home in order to

3. Materials and Method

Design:

A quantitative research approach design along with Survey Research Design was adopted to determine the assessment of Biopsychosocial needs of elderly population. As the area was selected through lottery method was jolly grant area and under that there five sub villages were selected by lottery method for pretesting, reliability, pilot study and for main study.

Research Team

Three researchers were Final year Master's in Psychiatric &Mental Health Nursing Post graduate student, two researchers were working as research Guide faculty members (Dr. Grace M. Singh) of a nursing faculty in the department of mental health and psychiatric nursing. And (Nursing Tutor Mr. John Davidson) of a nursing faculty in the department of community health nursing Two of them have worked as supervisors in statistician part of the study i.e (Nursing Tutor Mrs.Sandhya Negi). The research team comprises three females and one male, two of whom are trained in quantitative research. The researchers were also acquainted with all of the participants.

Setting and Time

The data were collected in selected community area of Doiwala, Dehradun Uttarakhand between 4January to 31 January 2022.

Sample

The target population was elderly population at the Doiwala Dehradun Uttarakhand. Inclusion criteria: The study included the elderly population who were 60 years and above: 1) presently residing in the selected community area 2) they could understand Hindi language 3) who were willing to participate in the study The study excludes the elderly population who were: 1) clinically diagnosed with any cognitive or neurological problems. The sample comprised 135 (n=135) students, 58 women and 77 men, who were selected via total enumerative sampling technique.

Data Collection Tools

A structured interview method was adopted to reveal the assessments of Biopsychosocial needs of elderly population. The socio-demographic comprised of selfstructured questionnaire that includes the baseline data of 11 items that are - age, gender, religion, marital status, education status, previous occupation, family income, type of house, type of family, previous knowledge regarding biopsychosocial needs, & anthropometrics measurement.

The self structured likert scale was adopted to collect the needs of the elderly population. The tool consist of 3 domains and 104 items and the maximum score of the tool was 312. The domains of the tool were, Biological needs domain which includes Physical abilities (eyesight, hearing, urinary continence, walking abilities, sleep schedule and memory) functional abilities(functional abilities, personal hygiene(bathing practice, oral practice, skin practice, grooming practice), diet and its preparation, exercise. The next domain is psychological needs includes psychological health, autonomy, lifestyle (leisure time, substance abuse intake) the last domain is sociological needs includes self independence, family/social environment, financial constraints, safety and security.

Data Collection

The 225 houses were visited by the researcher for main study data collection, out which 135 elderly population were selected by total enumeration sampling technique as 32 houses were taken from tarli jollygrant and 59 houses from Kothari Mohalla . The research study excluded houses were 43 from tarli and 91 from kothari mohalla due to exclusion criteria and non availability of elderly population and duration of data collection was of one month as the total time taken was 20-25 minutes for conducting structured interview and the data was collected from selected area within one month of time span.

Data Analysis

The present research data was processed and analyzed, as a systematic fashion, so that the trends and patterns of relationship can depict well. As statistical analysis is a method of ordering, categorizing, manipulating, and summarizing data obtain from the answers to the research question. In order to interpret the data in logical order both "descriptive and inferential statistics" were used. The collected data was organized and computed for statistical analysis according to the objectives, data distribution, and the number of participants as well as all the data were transferred with

coding to the master data sheet for analyses using SPSS (statistical package trial version 20)

Trustworthiness

Trustworthiness was achieved through "credibility," "transferability," "dependability," "confirmability." Credibility was achieved by the participants' opportunity to provide information freely, confirm their statements, meet with the researchers frequently, describe the phenomenon in detail, and compare them with the literature. To ensure transferability, the study duration, sample, environment, data collection, and research process were presented clearly. The participants' statements were quoted by verbatim to ensure dependability. The research activities and processes were examined by an authority who was not involved in the study. To ensure confirmability, the researchers provided comments that reflected the phenomenon under study, and multiple researchers coded the data.

Ethical Issues

The research was approved by the Ethics Committee of Swami Rama Himalayan University (31/12/2021–2022/270). The participants were told that they would be involved in this study at their home. They were also informed about the use of a recorded data during data collection will be kept confidential and it is their right to stop participating in the study at any time, that the information would be used purely for research and publication, and that their personal information would be kept confidential. At the end of the study, the recorded data will be destroyed.

The findings are presented in Four sections. The first provides the findings related to the elderly sociodemographic characteristics and second section presents the findings of the assessment of Biopsychosocial needs. The third section comprises of the correlation of each domain. The fourth finding deals with the association of Biopsychosocial need with that of their socio demographic variables

I.Findings related to the description of sociodemographic profile:

The most of the sample (80%) were from the age group of 60-75 years more than two third were male (57.0%), and most of the samples belongs to Hindu religion were (89.6%),majority married,(94.8%) educational level was more than two third of the sample(79.8%), were educated. As less than one third had pervious occupation belonged to government sectors (39.3%) with more than two third had monthly income of < 25000 (78.5%) more than two third of the samples live in their own house i.e. (78.8%), and also more than two third lives in a joint family type (65.9%), and most of the samples doesn't had previous knowledge regarding the Biopsychosoical needs (88.1%). In anthropometrics measurements two third measure with height of 5.5-6.6feet (61.5%) followed by as two of third of theparticipants measure with the weight under 40-76kg i.e. (68.9%). While, the body mass index states, two third of the elderly population falls under normal weight category, more than one third of the sample are falling in the category of pre hypertensive phase B.P. > 120 -80mmHg systolic and > 80-89mmHg diastolic in Blood pressure readings. (Table 1).

4. Result

Table 1: Frequency and Percentage distribution of elderly with their selected socio-demographic variables

n=135

S. No	VARIABLES	TOTAL NO OF PARTICIPANTS	FREQUENCY %
1.	Age:		
	a) 0-75 years	108	80%
	b) 76-90year	27	20%
2.	Gender		



a) Male	77	57%
b) Female	58	43%
Religion		
_		
	121	89.6%
	5	3.7%
c) Muslim		3.770
	9	6.7%
Marital status		
a)	128	94.8%
arried		
b)	7	5.2
idow		
Education level		
a)	107	79.3%
ducated		20.71
	28	20.7%
neducated		
Previous occupation		
a)	40	29.6%
	24	17.8%
		17.070
	53	39.3%
overnment	18	13.3%
d)	10	13.370
eacher		
Monthly income		
a)	106	78.5%
	20	21.5%
	29	21.3%
25000		
Type of house		
a)	105	78%
wn house	20	222/
b)	30	22%
ented house		
•	•	1
	Religion a) Hindu b) Sikh c) Muslim Marital status a) arried b) idow Education level a) ducated b) neducated Previous occupation a) omemaker b) rivate job c) overnment d) eacher Monthly income a) 25000 b) 25000 Type of house a) wn house	b) Female 58

	a)	46	34.1%
	ingle	00	(5.00/
	b)	89	65.9%
	oint		
10.	Previous knowledge regarding		
	Biopsychosoical needs of elderly		
	a)	119	88.1%
	0		11.00
	b)	16	11.9%
	es		
11.	c)		
	nthropometric measurement		
	d)	52	38.5%
	eight : 4.2-5.4 feet	83	61.5%
	e)	83	01.5%
	5.5- 6.6 feet		
	f)	93	68.9%
	eight : 40-70kg	42	21.10/
	g)	42	31.1%
	77-112kg		
	Body Mass Index		
	Normal weight (18.5-24.9)	76	56.3%
	Pre obesity (25.0-29.9)	45	33.3%
	Obesity class I (30.0-34.9)	14	10.4%
	h) lood pressure		
	_		
	Normal B. P (≤ 120/80mmHg)	41	30.4%
	Pre hypertensive	65	48.1%
	(≥120-139 systolic)		
	(≥80-89diastolic)		
	Hypertensive	29	21.5%
	(140/90 mmHg or higher than this)		

II.Findings Description of Assessment Biopsychosoical needs of elderly score of elderly population: the data of this table represents that the data in Biological needs were divided into physical abilities and functional abilities under physical abilities

eyesight, 70.37% elderly was able to watch TV while 62.22% were not able to do needle work, while 71.11% population were able to visualize things in sunlight.

Under hearing 74.07% elderly population were able to hear properly, while 64.40% of them were not able to hear when someone speaks in whisper, 71.11% religious activities were not hinder due to hearing, in the last 77.03% were the population who never got embraced in meeting new relative/people due to hearing problem.

In urinary continence/ fecal 68.8% of the elderly population was able control over the bowels, hence, 71.11% were never get worried when they are aren't able to reach toilet, 65.18% do not have involuntary loss of urine while 92.5% were the elderly population who do not void on the bed.

If we look to the walking abilities the elderly population was able to stand without support 65.18%, while 67.40% elderly population feels the use of cane, and 82.22% werethe elderly population who doesn't required the wheel chair for mobility and 67.40% of the elderly can walk 6 meters.

On the assessment of sleep schedule shows that 62.22% of the elderly were able to sleep properly, while 59.25% population cannot able to sleep in continuation at night, hence 59.25% population feels fresh and energetic, while 61.48% elderly feel frustrated due to impaired and 62.22% do not intake any sleep medication for sleep.

Memory the 60% of elderly population were able to remember the things, while 47.40% was able to remember the special events and 45.92% was able to retained learnedmaterial.

Then the functional abilities in which 69.92% was able to work independently, next 51.85% elderly population was able o travel alone, therefore 55.55% can able to clean their house daily, 45.92% doesn't need assistance in washing clothes, the amount of the elderly population who can use public transport was 45.18% and 57.77% was able to follow and can take their medication own.

Personal hygiene in bathing practice state that 63.07% do take bath daily, while 64.44% elderly population doesn't need assistance in bathing

In oral practice 63.07% elderly population was able to brush their teeth daily, while 42.2% do not brush their teeth in night after meal, hence 68.14% do not visit the dentist.

Skin practice 68.14% of the elderly do wash their hands before meal, while 71.11% of then also do hand washing after the meal, 71.11% doesn't clip/cut the nails in week, hence 54.81% was applying the moisture applicants.

The grooming practice concluded that 63.70% of the elderly population was changing their clothes daily, while 70.37% of them was able to comb their hairs.

Diet and its preparation revels that 59.25% of the elderly was able to cook their food, among them 62.96% of them were able get their food in plate, while 67.40% was able to eat food independently and 71.11% of the elderly population was not in need of anyone

to feed himself or herself, therefore 39.25% among them was not having any restriction of the intake of food and 68.48% of them was eating green vegetables and fruits, 68.88% of the elderly was not eating big meals. As there was 51.11% of the elderly population was eating small meals, and 65.18% of the elderly was eating food three times a day.

In the last the last sub domain of biological needs was exercise in this 66.66% of the elderly was going out for the walk, among them 51.85% was spending 1 hour per day, while 34.07% was doing yoga and 46.66% was not doing any meditation.

Now the psychological needs under which psychological health 68.88% was able to enjoy life, also 68.88% was living life cheerfully, 65.18% was happy with themselves as a person, while 45.18% elderly population was not feeling anxious in life, therefore 37.77% of the elderly was not influenced by others people belief and opinion, 54.18% were the elderly who feel purpose in life. As the 49.62% of them was able to do things of their choice, thus 48.88% were use to get worry about things, hence 48.14% use to give importance to other judgments.

In autonomy 54.07% of the elderly population feel afraid to raise their voice inopposition about their

opinions, while 45.92% elderly decision was influenced by others while was 45.92%, was influenced by others and 50.73% of the population was able to feel confidence in their own opinions. If we look to lifestyle of the elderly population as these are divided into two that is leisuretime and substance abuse in leisure time 62.96% was use to listen music, as 58.51% among them do not use to participate in any of the handicrafts activates, while 67.40% never use to participate in sports, while 38.51% was fond of watching movie, and 37.77% do attend religious meetings.

In substance abuse 57.03% were not taking any substance, while 71.11% do not take any tobacco, or ganja, bhang, and also 70.37% were the elderly population do not intake bedi or cigarette, hence 55.55% elderly population was use to take excessive of the caffeine.

The sociological needs had self independence /freedom in which 62.22% was the elderly who use to go out for shopping of their choice, while 52.59% population use to go out, with friends and relative, also 52.59% of them were going for the family day out, and 52.59% were elderly who use to go out for buying grocery.

The family/social environment depicts that 74.07% of the elderly population were happy with their family members, among them 65.18% were able to ask help from someone when their have problem, while 68.88% were able to have warm and trustworthyrelationship, therefore 68.14% of them were satisfied with their grand children and children, while 63.07% were able to satisfy with their life, and 64.44% were able to trust on their family members, 65.18% elderly population were able to enjoy with their family, also 65.92% was involve in the family decisions, and 63.70% was use to that that they were important in family, moreover 58.51% use to meet their relatives once a week, then 59.25% feel that they were close to their family, 56.29% was able to talk to their relative over a call, and 51.11% never use their social net working app, hence 65.18% population were feeling satisfied with social contact.

In the financial constraints 59.25% of the elderly was able to manage the finance for a month, while 54.18% do go for regular medical follow up and 55.55% population were having source of income, also 57.03% of them use to pay bills of the house, hence51.11% were the elderly who were dependent on their children.

The last safety and security results presented that 74.07% were the elderly who use to feelsafe with their family, the population who feel secure with the community around them was 74.81%, also 73.33% among them use like their environment and lifestyle in which they live and 71.11% were those elderly population who use to think important about themselves in community / society. (Table 2).

Table 2: Assessment Biopsychosoical needs of elderly score of elderly population

n=135

S.No	Statement	Yes	Sometime	Never
		frequency(%)	Frequency(%)	Frequency(%)
1.	BIOLOGICAL NEEDS			
i)	Eyesight			
a.	Are you able to watch TV,	95	26	14
		(70.37%)	(19.25%)	(10.37%)
b.	Are you able to do needlework)	31	20	84
		(22.9%)	(14.81%)	(62.22%)



Are you able to visualize the things in sunlight	96	19	20
	(71.11%)	(14.07%)	(14.81%)
Hearing:			
Can hear properly	100	19	16
	(74.07%)	(14.07%)	(11.85%)
Do you have any difficulty in hearing when someone speaks in a whisper?	19	25	91
	(14.07%)	(18.51%)	(67.40%)
Do the hearing problem hinders you to attend	12	27	96
like?	(8.88%)	(20%)	(71.1%)
Do the a hearing problems cause you to feel	12	19	104
embarrassed in meet of new people/ relatives?	(8.8%)	(14.07%)	(77.03%)
Urinary Continence			
Do you feel that you have no control over your	93	20	22
bowels	(68.8%)	(14.81%)	(16.29%)
Do you worried not able to get to toilet on time	15	24	96
	(11.11%)	(17.77%)	(71.11%)
Do you have involuntary loss of urine	28	19	88
	(20.74%)	(14.07%)	(65.18%)
Do you void on bed	2	8	125
	(1.48%)	(5.92%)	(92.5%)
Walking abilities			
Are you able to stand without support of the	88	12	35
wall	(65.18%)	(8.88%)	(25.9%)
Do you feel need of using cane for a support to	26	18	91
stand	(19.25%)	(13.33%)	(67.40%)
Do you need wheelchair to have mobility	8	16	111
	(5.92%)	(11.85%)	(82.22%)
Are you able to cover 6 meters	91	21	23
	Can hear properly Do you have any difficulty in hearing when someone speaks in a whisper? Do the hearing problem hinders you to attend religious services less often than you would like? Do the a hearing problems cause you to feel embarrassed in meet of new people/ relatives? Urinary Continence Do you feel that you have no control over your bowels Do you worried not able to get to toilet on time Do you have involuntary loss of urine Do you void on bed Walking abilities Are you able to stand without support of the wall Do you feel need of using cane for a support to stand Do you need wheelchair to have mobility	Hearing: Can hear properly Do you have any difficulty in hearing when someone speaks in a whisper? Do the hearing problem hinders you to attend religious services less often than you would like? Do the a hearing problems cause you to feel embarrassed in meet of new people/ relatives? Urinary Continence Do you feel that you have no control over your bowels (68.8%) Do you worried not able to get to toilet on time 15 (11.11%) Do you have involuntary loss of urine 28 (20.74%) Do you void on bed 2 (1.48%) Walking abilities Are you able to stand without support of the wall Do you feel need of using cane for a support to stand (19.25%) Do you need wheelchair to have mobility 8 (5.92%)	Hearing:



		(67.40%)	(15.55%)	(17.03%)
D.	Sleep schedule			
a.	Are you able to sleep in night properly	84	27	24
		(62.22%)	(20%)	(17.77%)
b.	Are you able to sleep in continuation at night	80	26	29
		(59.25%)	(19.25%)	(21.48%)
c.	Do you feel fresh and more energetic in morning	80	35	20
		(59.25%)	(25.92%)	(14.81%)
d.	Do you feel irritated or	29	23	83
	frustrated due to impaired sleep	(21.48%)	(17.03%)	(61.48%)
e.	Do you take any sleep medications to have sleep	34	17	84
		(25.18%)	(12.59%)	(62.22%)
E.	Memory			
a.	Are you able to remember the things like:	81	28	26
	money, wallet, keys, switching off electric appliances	(60%)	(20.74%)	(19.25%)
b.	Are you able to remember the special events	64	41	30
	like: birthday, anniversary, death	(47.40%)	(30.37%)	(22.22%)
c.	Are you able to retained learned material	62	44	29
		(45.92%)	(32.59%)	(21.48%)
2a.	Functional abilities			
a.	Are you able to do work independently	94	13	28
		(69.62%)	(9.62%)	(20.74%)
b.	Are you able to travel alone for far distance	70	24	41
		(51.85%)	(17.7%)	(30.37%)
c.	Are you able to clean your house daily	75	30	30
		(55.55%)	(22.22%)	(22.22%)
d.	Do you need someone assistance in your	44	29	62
	washing of clothes	(32.59%)	(21.48%)	(45.92%)



e.	Are you able to uses public transportation	61	33	41
		(45.18%)	(24.44%)	(30.37%)
f.	Are you able to take own medication and	78	23	34
	follow diet	(57.77%)	(17.03%)	(25.18%)
B.	Personal hygiene			
i)	Bathing practice :			
a.	Do you to take bath everyday	86	30	19
		(63.70%)	(22.22%)	(14.07%)
b.	Do you need someone to assist in bathing	37	11	87
		(27.40%)	(8.14%)	(64.44%)
ii)	Oral practice:			
a.	Are you able to perform your oral hygiene	86	16	33
	practice daily	(63.70%)	(11.85%)	(24.44%)
b.	Do you brush your teeth in night after meal	61	17	57
		(45.1%)	(12.59%)	(42.2%)
c.	Do you go for regular follow up to the dentist	26	17	92
		(19.25%)	(12.59%)	(68.14%)
iii)	Skincare practice:			
a.	Do you wash your hands before the meal	92	25	18
		(68.14%)	(18.51%)	(13.33%)
b.	Do you wash your hands after the meal	96	19	20
		(71.11%)	(14.07%)	(14.81%)
c.	Are you able clip/cut your nails in a week	20	19	96
		(14.81%)	(14.07%)	(71.11%)
d.	Are you able to put moisture applicants cream	74	20	41
	to make it smooth	(54.81%)	(14.81%)	(30.37%)
iv)	Grooming practice :			
a.	Do you change your clothes everyday	86	26	23



		(63.70%)	(19.25%)	(17.03%)
b.	Are you able to comb your hair	95	15	25
		(70.37%)	(11.11%)	(18.51%)
C.	Diet and its preparation			
a.	Do you cook your food alone	80	18	37
		(59.25%)	(13.33%)	(27.04%)
b.	Are you able to get food in your plate	85	19	31
		(62.96%)	(14.07%)	(22.96%)
c.	Are you able to eat food independently	91	19	25
		(67.40%)	(14.07%)	(18.51%)
d.	Do you need help of someone in making you	24	15	96
	feed	(17.77%)	(11.11%)	(71.11%)
e.	Do you have any restriction on food	43	39	53
	intake(because of medical condition	(31.85%)	(28.88%)	(39.25%)
f.	Do you eat fruits and green vegetable daily	83	27	25
		(61.48%)	(20%)	(18.51%)
g.	Do you eat big meals	24	18	93
		(17.77%)	(13.33%)	(68.88%)
h.	Do you take small meals	43	23	69
		(31.85%)	(17.03%)	(51.11%)
i.	Are you able to have meal three times a day	31	16	88
		(22.96%)	(11.85%)	(65.18%)
D.	Exercise			
a.	Do you take a walk outside of your home (For	90	17	28
	example, for fun or exercise, walking to work, walking the dog, in any sports etc,)	(66.66%)	(12.59%)	(20.74%)
b.	Do you spend 1 hour in walking per day	70	41	24
		(51.85%)	(30.37%)	(17.77%)
c.	Are you able to do yoga	46	45	44



		(34.07%)	(33.33%)	(32.59%)
d.	Do you do meditation	31	41	63
		(22.96%)	(30.37%)	(46.66%)
3.	PSYCHOLOGICAL NEEDS			
Α.	Psychological health			
a.	Are you able to enjoy your life	93	22	20
		(68.88%)	(16.29%)	(14.81%)
b.	Do you feel cheerful in your life	93	23	19
		(68.88%)	(17.01%)	(14.07%)
c.	Do you feel happy with yourself as a person	88	25	22
		(65.18%)	(18.51%)	(16.29%)
d.	Do you feel anxious in your life	46	28	61
		(34.07%)	(20.74%)	(45.18%)
e.	Are you influenced by others people about your	40	44	51
	own belief and opinions	(29.62%)	(32.59%)	(37.77%)
f.	Are you able to feel that you have a purpose or	74	39	22
	meaning in life	(54.81%)	(28.88%)	(16.29%)
g.	Do you feel to do things of your choice	67	39	29
		(49.62%)	(28.88%)	(21.48)
h.	Do you tend to worry about what other people	66	29	40
	think of you	(48.88%)	(21.48%)	(29.62%)
i.	Do the values of what others think is important	65	43	27
	for your judgment about yourself or what you think is important	(48.14%)	(31.85%)	(20%)
В.	Autonomy			
a.	Does u feel afraid to voice your opinions even	73	28	34
	when they are in opposition to your opinions	(54.07%)	(20.74%)	(25.18%)



b.	Do your decisions are usually influenced by	62	44	29
υ.	anyone else	02	44	29
	anyone eise	(45.92%)	(32.59%)	(21.48%)
c.	Does you tend to be influenced by the others	62	37	36
	opinions	(45.92%)	(27.40%)	(26.66%)
d.	Do you feel confidence in your own opinions	68	43	24
		(50.37%)	(31.85%)	(17.77%)
С	Lifestyle			
i)	Leisure time:			
a.	Do listen music in leisure time	85	19	31
		(62.96%)	(14.07%)	(22.96%)
b.	Do you participate in sitting activities such as	32	24	79
	doing handcrafts	(23.70%)	(17.77%)	(58.51%)
c.	Do you participate in any sport	19	25	91
		(14.07%)	(18.51%)	(67.40%)
d.	Do you like to watch movies in leisure time	52	35	48
		(38.51%)	(25.92%)	(35.55%)
e.	Do you attend religious meetings in leisure time	51	43	41
		(37.77%)	(31.85%)	(30.37%)
ii)	Substance abuse :			
A	Do you drink any alcohol abuse or drug abuse	42	16	77
		(31.11%)	(11.85%)	(57.03%)
В	Do you take tobacco, pan masala, ganja, bhang	27	12	96
	etc.	(20%)	(8.88%)	(71.11%)
С	Do you do smoking cigarette, bedi	30	10	95
		(22.22%)	(7.40%)	(70.37%)



D	Do you take excessive caffeine (tea, coffee,	75	25	35
	cola)	(55.55%)	(18.51%)	(25.92%)
4.	SOCIOLOGICAL NEEDS			
A.	Self independence / freedom			
a.	Do you go out for shopping of your choice	84	20	31
		(62.22%)	(14.81%)	(22.96%)
b.	Do you go out with your friends/relatives	71	27	37
		(52.59%)	(20%)	(27.40%)
c.	Do you go out for family day out	71	38	26
		(52.29%)	(28.14%)	(19.25%)
d.	Do you go in week out for outing for buying	71	25	39
	grocery	(52.59%)	(18.51%)	(28.88%)
В.	Family/social environment			
a.	Are you happy with your family members	100	10	25
		(74.07%)	(7.40%)	(18.51%)
b.	Are you able to ask someone for help when u	88	24	23
	have problem	(65.18%)	(17.77%)	(17.03%)
c.	Do you feel that you have warm & trustworthy	93	18	24
	relationships with others	(68.88%)	(13.33%)	(17.77%)
d.	Are you your satisfied with your children /	92	26	17
	grandchildren	(68.14%)	(19.25%)	(12.59%)
e.	Are you are satisfy with the way life you live	86	28	21
		(63.70%)	(20.74%)	(15.55%)
f.	Do you have trust on your family members(87	16	32
	regarding security, respect, importance, care, emotions)	(64.44%)	(11.85%)	(23.70%)
g.	Do you enjoy being with your family	88	26	21
		(65.18%)	(19.25%)	(15.55%)



h.	Do you gets involve in taking decisions in	89	13	33
	family	(65.92%)	(9.62%)	(24.44%)
i.	Do you think you are important to your family	86	25	24
		(63.70%)	(18.51%)	(17.77%)
j.	Do you meet your relatives once a week	79	17	39
		(58.51%)	(12.59%)	(28.88%)
k.	Are you are close to family people	80	32	23
		(59.25%)	(23.70%)	(17.03%)
1.	Do you talk to relatives or friends over a call	76	24	35
		(56.29%)	(17.77%)	(25.92%)
m.	Do you interact with your close relative or	79	31	25
	friends	(58.51%)	(22.96%)	(18.51%)
n.	Do you use any social net working app	57	9	69
		(42.22%)	(6.66%)	(51.11%)
0.	Do you feel satisfied with your social contact	88	24	23
		(65.18%)	(17.77%)	(17.03%)
C.	Financial constraints			
a.	Are you able to managed your finance for	80	20	35
	month	(59.25%)	(14.81%)	(25.92%)
b.	Do you go for regular medical follow up	74	42	19
		(54.81%)	(31.11%)	(14.07%)
c.	Do you have any source of income	75	24	36
		(55.55%)	(17.77%)	(26.66%)
d.	Do you get pension	79	14	42
		(58.51%)	(10.37%)	(31.11%)
e.	Do you pay your bills of the house	77	17	41
		(57.03%)	(12.59%)	(30.37%)



f.	Are you dependent on your children/ grand	69	19	47
	children	(51.11%)	(14.07%)	(34.81%)
D.	Safety and security			
a.	Do you feel safe in your family	100	11	24
		(74.07%)	(8.14%)	(17.77%)
b.	Are you feeling secure with community around	101	11	23
	you	(74.81%)	(8.14%)	(17.03%)
c.	Do you like your environment and lifestyle in	99	13	23
	which you live	(73.33%)	(9.62%)	(17.03%)
d.	Do you think your important in community /	96	15	24
	society	(71.11%)	(11.11%)	(17.77%)

Description of Table 3: Area wise Mean \pm SD and Mean percentage of Biopsychosocial needs:

The above data result shows that the highest needs found under biological needs was in personal hygiene with mean \pm SD (24.79 \pm 6.28) and frequency percentage was(71.12%) followed by the sociological

needs in family relation /social environment the mean \pm SD (36.18 \pm 9.98) and frequency percentage was (80.4%) and least was in psychological needs in psychological health the mean \pm SD (20.53 \pm 5.29) and frequency percentage was (11.4%) and in all these needs were found that mean \pm SD was high under each domain (Table 3).

Table 3: Area wise Mean ± SD and Mean percentage of Biological Need

n=135

1.	BIOLOGICAL NEEDS					
S.No.	Items	No. of Items	Range	Mean + SD	Mean%	
			Min-Max			
1a.	Eyesight	3	3-9	6.77 ± 1.66	75.2%	
1 b	Hearing	4	4-12	6.79 ± 1.83	56.58%	
1 c	Urinary continence	4	4-12	6.57 ± 1.75	54.75%	
1 d	Walking abilities	4	4-12	7.65 ± 1.83	63.75%	



1 e	Sleep schedule	5	5-15	10.50 ± 2.66	70%
1 f	Memory	3	3-9	6.90 ± 2.21	76.66%
1g	Functional abilities	6	6-18	13.38 ± 4.00	74.33%
1 h	Personal hygiene	11	11-33	24.79 ± 6.28	75.12%
1 I	Diet and its preparation	9	9-27	17.90 ± 4.31	66.29%
1 j	Exercise	4	4-12	8.58 ± 2.54	71.5%
3	PSYCHOLOGICAL NI	EEDS			
3 a.	Psychological health	9	9-18 20.53 ± 5.29		11.4%
3 b.	Autonomy	4	4-12	9.05 ± 2.58	75.41%
3 c.	Leisure time	5	5-15	9.62 ± 2.75	64.13%
3d.	Substances and drug abuse	4	4-12	7.04 ± 2.35	58.66%
4	SOCIOLOGICAL NEE	DS			
3 a	Self independence	4	3-12	9.21 ± 3.026	76.75%
3 b	Family/social environment	15	15-45	36.18 ± 9.98	80.4%
3 c	Financial constraints	6	6-18	13.73 ± 4.14	76.27%

3 d	Safety and security	4	4-12	10.24 ± 2.99	85.33%

Description of Bar graph of frequency percentage distribution of Biological needs, Psychological needs and sociological needs Fulfilled among elderly population:

(Figure 1) The graph depicts the Biological needs fulfilled that the highest needs fulfilled under was in hearing74.07% two fifth of the samples 71.11% in personal hygiene while70.30% needs fulfilled in eyesight, two third of the needs were in the functional abilities69.62%, therefore68.80% in urinary continence/fecal, in diet and its preparation, then two third of the participants 67.40% had needs fulfilled in exercise and then 66.66% needs that were in sleep schedule 62.22% and leastwas found in the memory 60% where need were fulfilled.

(Figure 2) The graphical representation of the Psychological needs fulfilled the highest needs fulfilled were more than two third of the population 77.78% in Substance abuse while two third samples had 68.88% fulfilled needs in psychological health, next 60.96% had in leisure time, and least needs fulfilled 54.07% was in autonomy.

(Figure 3)depicts the bar graph that highest Sociological need fulfilled was among the more than three fourth of the population, 74.81% in safety and security, three fourth needs 74.07% in family and social environment, therefore, two third of the population 62.22% samples had fulfilled needs under self independence and least was found in the more than half of the elderly population 59.25% in financial constraints.

FIGURES:

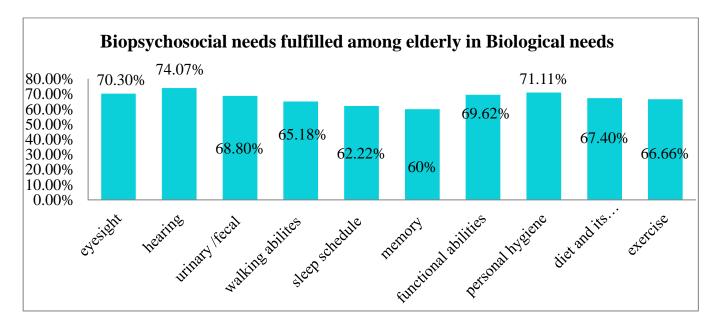


Figure:1

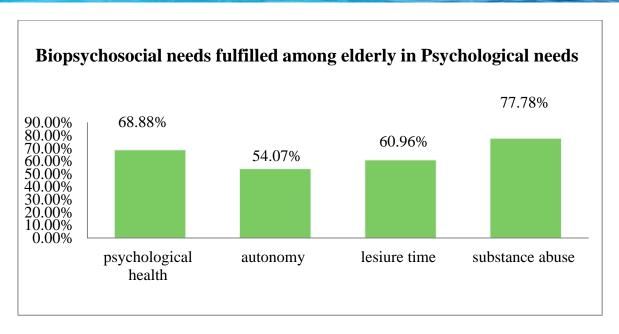


Figure:2

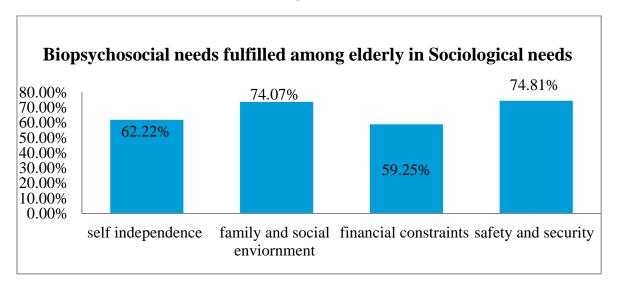


Figure: 3

Description Bar graph of frequency percentage distribution of Biological needs, Psychological needs and sociological needs Arise among elderly population:

(Figure 4) the Biological needs arise was that the most of the in the Personal hygiene (80.74%) and then in eyesight 77.10% followed by the exercise 77.03% then in functional abilities67.41% more than half of the elderly had need arise in memory 54.07% while these least were arise in diet and its preparation17.77%, sleep schedule25.18%, urinary continence/fecal, hearing and last was in walking abilities 5.92%.

(Figure 5) The Psychological needs arise was that the most of the in the leisure time 85.92% and then three fourth in psychological health 70.37% followed by the more than half in autonomy 54.07% and least arise in substance abuse 20.00%.

(Figure 6) The Sociological needs arise was that more than half was arise in family and social environment57.77% and financial constraints 51.11% then in self independence 47.40% and least was in safety and security 28.88%

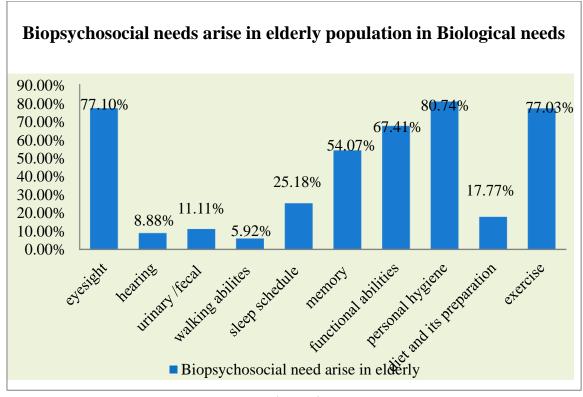


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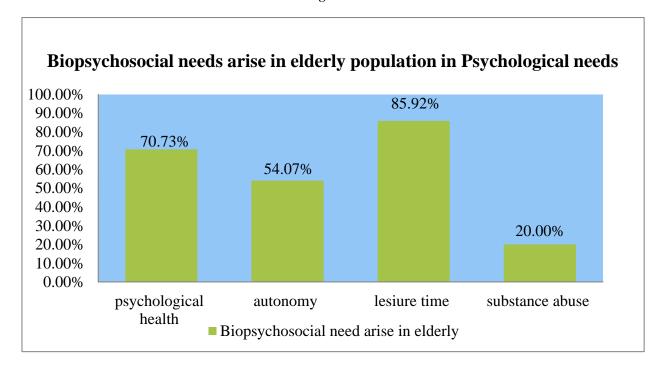


Figure:5

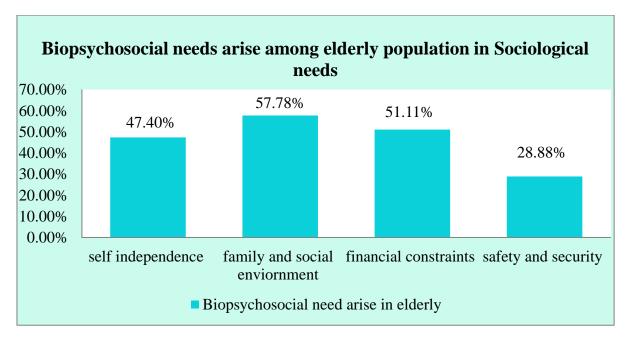


Figure: 6

III.Correlation between biological needs, psychological needs among elderly population:

There was moderate positive correlation between biological needs, psychological needs and sociological needs among the elderly population there it can be define as the biological needs increased simultaneously the psychological needs will also increased and so there was increased in sociological needs hence they were statically significant.

IV. Association between the biopsychosocial needs of elderly with that of their socio-demographic variable.

The only groups which was associated is previous knowledge regarding Biopsychosocial needs of elderly population, which is significant at level of < 0.05 *p value. Hence, "the null hypothesis was rejected and the research hypothesis was accepted" (Table 4).

Table 4: Association between level of Biopsychosocial Needs among elderly peopleand selected demographic variable n=135

S.No	Demographio	c Variable		median	ye χ² / Fisher exact/ Yatescorrection	"p"
1.	Age	60-75 years		(≥ 248) 55		
••		76- 90 years		13	0.67#	0.796
2.	Gender	Male	33	44		
		Female	34	24	3.288 _X	0.70

3.	Religion	Hindu	62	59		
		Sikh	0	5	5.093#	0.89
		Muslim	5	4		
4.	Marital	Married	61	67		
	status	Widow	6	1	2.474¥	0.116
5.	Educationlevel	Educated	50	57		
		Uneducated	17	11	1.736 _X	0.188
6.	Previous	Homemaker	25	15		
	occupation	Private job	13	11	5.584 _X	0.134
		Government	23	30		
		Teacher	6	12		
7.	Monthlyincome	Less than	47	48		
		25000/-			$0.03_{ m X}$	0.95
		More than	20	20		
		25000/-				
8.	Type of	Own house	55	50	1.43 _X	0.232
	house	Rented house	12	18		
9.		Single		28	3.077 _X	0.079
	family	Joint		40		
10.	Previous knowledge	Yes No	4	12		
	regarding Biopsycho	No	63	56	4.405 x	0.036*
	social needs of					
	elderly :					
	I	1			ni sanare	

* - Chi square

- fishers exact test

5. Disscusion

This study examined the Biopsychosocial needs of the elderly the assessment were grouped under three domains as the purpose of this study to assess the Biopsychosocial needs of elderly population, Findings reveal in the socio-demographic variable was males were more as compare to female hence the Supportive study in 2019 Aziza Magda, (etal) Biopsychosocial needs of elderly post renal transplant. It states that the supportive study results shows males were more as compare to females.⁸

The Correlation between biological, psychological, and sociological needs elderly population. There was moderate positive correlation between sociological needs and biological needs among the elderly population there it can be define as the sociological needs increased simultaneously the biological needs will also increased as they were statically significant. Further similar findings shows by the Wild B. et al (2008-2010) that there was statically significant correlation between physical to mental and then to mental to social and last was in social to physical with (p=<0.0001).9

Association between the biopsychosocial needs score of elderly with that of their socio demographic variable. The results depicts in present study shows that previous knowledge regarding Biopsychosocial needs is the only group which was found to be associated with socio-demographic variables among elderly population. While the Opposite Study concluded by Lotte A, H. Hermsen et al (2017) The result presented that the statistically significant association was found between the "age group of the elderly population". 10

Implication of Practices

- The present study will motivate the students to learn about the Biopsychosocial needs of elderly to educate them regarding the importance and health benefits of these needs among elderly,
- The nurses of the various department can assess these needs in hospitalized elderly population.
- More over the nurse administrator should insist staff nurses to conduct needs assessment before the discharge of patient.
- · As this study will bring more new facts at different

settings such as Hospital area, mentally ill elderly and also it can further take down in old age home in order to provide healthy lifestyle to elderly population.

6. Conclusion

As most of the sample i.e. (80.74%) had their biological needs arise in personal hygiene. Then the most of the participants (85.92%) had need arise under the leisure time. Moreover, more than half of elderly population (57.77%) had sociological needs arise in the family relation/social environment.

Hence the Biopsychosocial needs were not fulfilled among elderly population.

DECLARTION

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Ethical approval: Taken

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