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Economics of Ageing: A Study in Coimbatore District, Tamil Nadu S. Pichaipillai, M.A., B.Ed., M.Phil. and T.S. Kalyani, Ph.D.

Abstract

This paper examines the economics of ageing population in Coimbatore District, Tamil Nadu. The study analysed the problems of the male and female ageing population according to the economic status such as dependent, partially dependent and independent. The quality of life of the aging population differs according to their sex, age, economic status and living arrangements. The quality of life of the ageing population varies between male and female respondents. Moreover, the quality of life of the ageing population differs according to their living arrangements. This results warrant the need for the measures to promote the quality of life of the ageing thorough the introduction of new social welfare measures, widening the existing welfare schemes, involvement of civil societies and NGO's.

Key Words: Economics of Ageing, Quality of Life of Ageing Population.

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1. Introduction

The present paper examines economic of ageing population in Coimbatore

District, Tamil Nadu. Population ageing refers to shifts in the age distribution of the

population in which the relative share of persons at older ages increases, and the share at

younger ages decreases. This is distinct from absolute increases in the number of older

persons that can occur even if their share does not increase (Leete and Jacobs, 2002)

The increasing ageing population is an important demographic phenomenon in the

world today and it is also one of the greatest challenges of the 21st century. The effective

implementation of health care policies results the increases in elderly population in

various developing countries. The blend of high fertility and declining mortality during

the last two decades has rapidly increased the ageing population. Further, the drastic fall

in fertility in recent years may lead to raise proportion of the elderly in the future (Liebig

and Irudaya Rajan 2003).

The 2001 census has shows that the ageing population of India comprises for 77

million. While the elderly constituted only 24 million in 1961, it increased to 43 million

in 1981 and to 57 million in 1991. The proportion of elderly persons in the population of

India raised from 5.63 per cent in 1961 to 6.58 per cent in 1991 and to 7.5 per cent in

2001. The same trend is exists in categories of the ageing population in India (Irudaya

Rajan, Mishra and Sharma, 1999). In 2001, the world's ageing population is 10 per cent

of the total population and it is expected 21.1 per cent in 2050. As per the current

situation, the major segment of this growth takes place in developing countries and more

than half in Asia, particularly in India and China (Irudaya Rajan, Sharma and Mishra

2003).

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In developing countries, nearly 90 per cent of the work forces are employed in the

unorganized sectors such as less structured, small scale informal sector in urban areas, or

in agriculture and allied sectors in rural areas. They retire from their job without any

financial assurance like pension and other benefits. These factors force the ageing

population to participate in the labour market. Since, the elderly workforce population is

on rise and it is likely to increase at faster rates than expected rates. In India, 40 per cent

of the elderly who are 60 and above are working. This has increased up to 61 per cent in

the case of males (Bhagat and Unisa, 2006). In this situation, the elderly workforce faces

the problems of low wage and increase in wage differentials across different segments of

the labour market. The elderly could not take care of their health with low income where

they have to depend their family members thereby increases the economic burden of the

ageing population (Bloom et. al, 2010 and Sakthivel et.al, 2011).

In this context, the huge and rapid increase in population ageing is an important

policy issue for growing economies. In the case of developed countries, ageing problem

is managed by old age pension and through various saving schemes during their working

period. However, it is more difficult to the developing countries where major segment are

ageing population. Further, the changes in economic, social and family amplifies the

economic problems of the ageing population. Therefore, population ageing is now

considered as a most important development challenge where the social safety nets do not

exist, limited institutional and human resource capacity and scarce resources to respond

to the health and basic needs of older persons.

The studies on gerontology proved that there is a general lowering of social status

of elderly people in India. Increasingly, older people may be perceived as burdens due to

their disability or dependence. Rapid changes in the family system, even in rural areas,

are reducing the availability of kin support. With modernization of the country, older

values are being replaced by 'individualism'. The family's capacity to provide quality

care, support and living facilities to older people is decreasing.

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At this juncture, the ageing population faces a number of problems and these

problems are due to insufficient income to support themselves and their partner. Further,

they suffer because of ill health, non availability of social security schemes, societal

failure to support the ageing population and unhealthy living arrangements. In particular,

these factors severely affect the quality of life of the ageing population. However, the

quality of life of the ageing population may differ according to their gender, age,

economic status and living arrangements. Thus, this paper analyses the economics of

ageing in terms of quality of life of the ageing population.

2. Quality of Life of the Ageing Population

Quality of life is a subjective and multidimensional concept that is recognized as a

useful tool to measure the welfare of the society. The World Health Organization has

defined the quality of life as "an individual's perception of their position in life in the

context of the culture and value systems in which they live and in relation to their goals,

expectations, standards and concerns." Further, the idea of quality of life includes the

aspects of health status, lifestyle, life satisfaction, mental health and well-being. Quality

of life is a holistic approach that not only emphasizes on individuals' physical,

psychological, and spiritual functioning but also their connections with their

environments; and opportunities for maintaining and enhancing skills (Nilsson et.al.,

2006). In this context, quality of life of the ageing population is important during the

situation of functional decline, economic dependence, and societal failure.

Due to the demographic transitions, socio-economic and political changes, the

ageing population faces the problem of isolation and lacks the resources for a better

quality of life. Today, the aged not only demand the society to ensure their independence

and participation, but also to grant them a life full of care, fulfillment and dignity. But a

limited understanding of factors influencing their quality of life is largely responsible for

the elderly being denied a dignified existence.

The ageing population in urban often unable to meet their needs due to the

industrialization, urbanization and the changing trends in society. As a result, these

factors force the ageing population to live in unhealthy living arrangements which are

characterized by inadequate physical conditions, crime, elderly abuse and disparity in

familial care. Besides, the ageing population in urban areas experiencing the problem of

total or partial lack of public and community facilities such as drinking water, sanitation,

planned streets, drainage systems and access to affordable healthcare services.

The co-residency with children does not always assure care and love for the

ageing population. On the other hand, independent living also has its problems,

particularly in cases of ill health and disability. It excludes the ageing population from

participation in many activities in the society (Shankardass, 1998). The question of space

and accommodation has consequences for the quality of life of the ageing population.

3. Methodology

In order to analyse the quality of life of the ageing population, this study

incorporates scientific approach in identifying the study region and the details are

discussed under four stages.

The first stage of the sampling design is to identify the study district. As per the

Indian Census 2001, the old age dependency ratio is 13.66 in Tamil Nadu. Regard to

districts, the old age dependency ratio in Coimbatore (13.51), Virudhunagar (13.53),

Pudukottai (13.25), Thanjavur (13.63) and Thiruvarur (13.24) shows similar picture

towards the state level. In case of potential support ratio, Coimbatore (7.31), Villupuram

(7.29), Salem (7.22) and Vellore (7.29) districts are closer to the Tamil Nadu State (7.32).

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In this context, based on the old age dependency ratio and potential support ratio, Coimbatore district is selected for the study (see table 1).

The second stage of the sampling design attempts to select study region. The NSSO 52nd round survey entitled "Morbidity and Treatment of Ailments, July, 1995 - June, 1996" and 60th round survey entitled "Morbidity, Health Care and the Conditions of the Aged" categories the ageing population based on the economic status namely economically independent, partially dependent and fully dependent. But, the economic status of the ageing population shows only meagre difference between the rural and urban regions (see table 2).

However, the studies on ageing found that the elderly people living in rural areas are much healthier as compared to those in urban areas. This factor permits rural aged to involve in the economic activity (CSO, 2000). Thus, the economic problem of ageing is more vulnerable for urban elderly than the rural elderly (Irudaya Rajan, 2006). The study on content analysis reports that crimes against the elderly are much higher in urban areas as compared to rural areas.

Table 1 Details of Total Population, Ageing Population, Working Population,
Old Age Dependency Ratio and Potential Support Ratio in the Districts of the Tamil
Nadu State

Sl. No.	Districts	Total Population	Ageing Population	Old Age Dependency Ratio	Potential Support Ratio
1.	Thiruvallur	2754756	198251	10.96	9.12
2.	Chennai	4343645	350826	11.78	8.49
3.	Kancheepuram	2877468	233860	12.57	7.96
4.	Vellore	3477317	296324	13.71	7.29
5.	Dharmapuri	2856300	224075	12.89	7.76

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6.	Tiruvannamalai	2186125	205050	15.20	6.58
7.	Viluppuram	2960373	250144	13.72	7.29
8.	Salem	3016346	268793	13.85	7.22
9.	Namakkal	1493462	154945	15.68	6.38
10.	Erode	2581500	287089	16.72	5.98
11.	The Nilgiris	762141	51211	10.00	10.00
12.	Coimbatore	4271856	391497	13.51	7.31
13.	Dindigul	1923014	175032	12.88	7.76
14.	Karur	935686	96910	15.96	6.27
15.	Tiruchirappalli	2418366	218034	13.87	7.21
16	Perambalur	493646	45180	14.64	6.83
17.	Ariyalur	695524	63633	14.71	6.80
18.	Cuddalore	2285395	181559	12.53	7.98
19.	Nagapattinam	1488839	132079	14.10	7.09
20.	Thiruvarur	1169474	99242	13.24	7.55
21.	Thanjavur	2216138	194163	13.63	7.34
22.	Pudukkottai	1459601	122264	13.25	7.55
23.	Sivaganga	1155356	114974	15.76	6.35
24.	Madurai	2578201	217829	12.95	7.72
25.	Theni	1093950	100022	14.39	6.95
26.	Virudhunagar	1751301	151809	13.53	7.39
27.	Ramanathapuram	1187604	103539	14.08	7.10
28.	Thoothukkudi	1572273	151714	15.35	6.52
29.	Tirunelveli	2723988	262854	15.29	6.54
30.	Kanniyakumari	1676034	164498	15.05	6.64
	Tamil Nadu	62405679	5507400	13.66	7.32

Source: Census on India, 2001.

Note: Old Age dependency Ratio = The number of persons in the age-group 60 or

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Potential Support Ratio = The number of working population per ageing population.

Further, the study entitled "Situation Analysis of Elderly in India" (Ministry of Statistics and Programmee Implementation, Government of India, 2011) reveals nearly 40 per cent of the aged (60 years and above) are working. In rural areas, 66 per cent of elderly men and 23 per cent of aged women are effectively participating in economic activity, while only 39 per cent of elderly men and about 7 per cent of elderly women in urban areas. This infers the level of economic dependency and severity of economic problem of the ageing in urban areas. As a result, the urban region of the Coimbatore district is selected for the study.

Table 2 Percentage of Ageing Population by Economic Status according to 60th and 52nd NSSO Surveys on Ageing

				Percentag	ge of Elderly	Persons	
Sl. No.	•		NSSO Survey	Independen t	Partially Dependen t	Fully Dependen t	Tota l
1.	Rural		60 th 2004	51	15	32	100
		Male	52 nd 1996	49	18	31	100
			60 th 2004	14	12	72	100
		Female	52 nd 1996	12	15	71	100
			60 th 2004	33	14	52	100
	Total		52 nd 1996	30	16	51	100
2.	Urba	Male	60 th 2004	56	13	30	100

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n		52 nd 1996	52	17	30	100
		60 th 2004	17	10	72	100
	Female	52 nd 1996	12	11	76	100
		60 th 2004	36	11	52	100
	Total	52 nd 1996	31	14	53	100

Source: National Sample Survey, 60th Round (January – June 2004)

National Sample Survey 52^{nd} Round (July, 1995- June, 1996)

The Coimbatore district comprises of three municipalities (Pollachi, Mettupalayam and Valparai) and one corporation (Coimbatore Corporation). Since the study analysis the economics of ageing, the researcher has chosen Coimbatore Municipal Corporation where population is high as compared to municipalities. This is carried out in the **third stage**.

The Coimbatore Corporation includes four administrative zones namely East zone, North zone, West zone and South zone. In order to identify the economically independent, partially dependent and fully dependent of the ageing population, the researcher has conducted focus discussion in each of the administrative zone with the help of NGOs. Finally, stratified random sampling method is adopted to identify 40 male and 40 female ageing population in each category of economically independent, partially dependent and fully dependent. In total, 240 ageing respondents are surveyed with the help of pre-tested structured interview schedule, which is the **fourth stage** (see table 3).

Table 3 Details of Sample Selection according to the Economic Status and Gender of the Ageing Population in Coimbatore Corporation

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Sl.		Ec			
No.	Gender	Economically	Partially	Fully	Total
110.		Independent	Dependent	Dependent	
1.	Male	40	40	40	120
2.	Female	40	40	40	120
All		80	80	80	240

4. Quality of Life Index of Ageing Population (QLIAP)

In general, the quality of life index is framed by using the factors such as with the material wellbeing, health, political stability and security, family life, community life, climate and geography, job security, political freedom and gender equality. Though, the quality of life index for the ageing population may considerably differ from the general quality of life index. Thus, based on the past studies on ageing the parameters for quality of life of ageing population are identified. The parameters are economic status, level of dependency, family parameters, social factors, Health factors, psychological factors and environment factors. By using the five points Likert scale the satisfaction of the elderly population measured. In order to framing the quality of life index, the Composite Index Method is applied to attain to the single value. For constructing the index, minimum and maximum values have been fixed for each of the indicators. The QLIAP fixed a minimum and a maximum values for each dimension such as economic status, dependency, family, social, health, psychological and environment. The minimum and a maximum values are between 0 and 1. The following composite index equation used to calculate QLIAP.

$$Index = \frac{Actual\ Value - Minimum\ Value}{Maximum\ Value - Minimum\ Value}$$

Sl. No. Dimension	Variable
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		1. Stable Financial Situation			
		2. Ability to meet the basic needs			
		3. Freedom to spend			
1.	Economic status	4. Able to meet health care expenditure			
		5. Satisfy the wants			
		6. Capacity to help the children			
		7. Capacity to borrow money			
		1. Economic dependent			
		2. Lack of Money			
		3. Physical dependent			
2.	Dependency	4. Financial aid from the children			
		5. Financial aid from friends			
		6. Financial aid from relative			
		7. Financial aid from neighbors			
		1. Harmony within the family			
		2. Moral support in the family			
		3. Importance given in the family			
3.	Family	4. Participation in Decision making			
		5. Care taken by the family			
		6. Help from the family members			
		7. Visiting relatives and others			
		1. Respected by the Society			
		2. Participating in the social functions			
		3. Participating in public works			
4.	Social	4. Participation in organizations			
		5. Free from ill treatment			
		6. Free from violence			
		7. Social security measures			

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		1. Satisfied with your health
		2. Access to medical services
		3. Awareness about the health
5.	Health	4. Family support at the time of ill health
		5. Having good nourishment
		6. Free from physical disability
		7. Free from visual disability
		1. Free from worries
		2. Free from depression
		3. Free from burden
6.	Psychological	4. Having peace of mind
		5. Having satisfaction in life
		6. Satisfaction in family environment
		7. Satisfaction in societal environment
		1. Peaceful living environment
		2. Hygienic environment
		3. Having recreation options
7.	Environment	4. Pollution free environment
		5. Opportunities for spiritual activities
		6. Opportunities for friendship and discussion
		7. Opportunities for senior citizen's associations

Example

Economic status

This calculation is made on each variables of the economic status of the ageing population and the values are aggregated and divided by seven. This method of Language in India www.languageinindia.com

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calculation gives single value for economic status of the ageing population. Likewise, the single values all parameters are incorporated and divided by seven and the attained single value. The final value is treated as the value for quality of life index value for ageing population.

$$Economic Staus = \frac{Finance + Basic needs + Spent + Health + Wants + Help children + Borrowing}{7}$$

$$QLIAP = \frac{Economic + Dependency + Family + Social + Health + Psychological + Environmental}{7}$$

$$= OLIAP \ Value$$

5. Age-wise Classification of the Ageing Population

The type of ageing is one of the factors to determine the economic status and quality of life of the ageing population. The ageing-wise classification of surveyed ageing population confirms that the economically independent ageing populations are huge in young old followed by middle old and old old categories (see Table 4). At the same time, the partially dependent and dependent positions are predominantly occupied by the middle old and old ageing categories. The same trend could be seen both genders such as male and female. Though, concentration of partially dependent and dependent are high in female aged population as compared to male aged population in the study region. This result shows that increase in age leads the problem of visual and disabilities. Therefore, ageing populations are needed help of their spouse, children, relatives and neighbors for accessing the needs.

Table 4 Age-wise Classification of the Surveyed Ageing Population

	Details				All				
		Dependent		Partially Dependent			Independent		
Sl.									
No.		Male	Female	Male	Female	Male	Female	Male	Female
		(n =	(n =	(n =	(n =	(n =	(n =	(N =	(N =
		40)	40)	40)	40)	40)	40)	120)	120)

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	Young	6	11	15	23	21	22	42	56
1.	Old (60 - 69)	(15.0)	(27.5)	(37.5)	(57.5)	(52.5)	(55.0)	(35.0)	(46.7)
	Middle	12	9	16	7	12	10	40	26
2.	Old (70 - 79)	(30.0)	(22.5)	(40.0)	(17.5)	(30.0)	(25.0)	(33.3)	(21.7)
	Old	22	20	9	10	7	8	38	38
3.	Old (80 +)	(55.0)	(50.0)	(22.5)	(25.0)	(17.5)	(20.0)	(31.7)	(31.7)

Source: Computed Note: Figures in

parentheses are percentages to sample

6. Living Arrangements of the Ageing Population

Living arrangements of the ageing population facilitates access to basic necessities, familial care and health care amenities (see Table 5). The study found that the own family, children's family and relative's family are the major source for the living arrangements of the surveyed ageing population in Coimbatore district. The sources of living arrangements are differ according to the economic status of the ageing population. The economically independent are mostly living with their own family, the children's family and relative's family are the major sources of living arrangements to the partially dependent and dependent. Of the sources of living arrangements, ageing population with their own family is prime followed by followed by children's family and relative's family. It is comparatively high in male population as compared to female population. Due to the expired of the life partner the female aged populations are need to live with their children's family. On the other hand, the ageing population living with relative's family is highly prevalent in male population. This due to the expired of their spouse and non-availability of children's support the male aged population loss their care taker and

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facilitators. As a result, the male aged population forced to live with their relative's family

Table 5 Details of Living Arrangements of the surveyed Ageing Population

Sl.	Details	Dependent			Partially Dependent		Independent		All	
No.	Details	Male	Female	Male	Female	Male	Female	Male	Female	
		(n =	(n =	(n =	(n =	(n =	(n =	(N =	(N =	
		40)	40)	40)	40)	40)	40)	120)	120)	
	Own Family	26	22	34	31	35	34	95	87	
1.	headed by Respondents	(65.0)	(55.0)	(85.0)	(77.5)	(87.5)	(85.0)	(79.2)	(72.5)	
2.	Children's	6	13	3	7	5	6	14	26	
2.	Family	(15.0)	(32.5)	(7.5)	(17.5)	(12.5)	(15.0)	(11.7)	(21.7)	
3.	Relative's	8	5	3	2	0	0	11	7	
3.	Family	(20.0)	(12.5)	(7.5)	(5.0)	(0)	(0)	(9.2)	(5.8)	

Source: Computed Note: Figures in

parentheses are percentages column total

7. Quality of Life Scores and Economic Status

Based on the above mentioned methodology, the quality of life index for the ageing population is calculated. The scores of the variables according to economic status of the ageing population are listed below (see Table 6). In all the factors, the ageing population those are independent has achieved high scores as compared to partially dependent and dependent ageing population. It is homogenous in both the genders. However, the male population has better situation as compared to female population.

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Table 6 Details of Quality of life Factors and Scores of the surveyed Ageing Population

			•							
Sl.		Dependent			Partially Dependent		Independent		All	
No .	Details	Male (n = 40)	Femal e (n = 40)	Male (n = 40)	Femal e (n = 40)	Male (n = 40)	Femal e (n = 40)	Male (N = 120)	Femal e (N = 120)	
1.	Economic Freedom	0.03	0.03	0.41	0.33	0.77	0.57	0.40	0.31	
2.	Non- dependency	0.19	0.19	0.51	0.36	0.85	0.60	0.52	0.38	
3.	Familial Care	0.25	0.24	0.59	0.42	0.75	0.62	0.53	0.43	
4.	Social Status	0.22	0.22	0.57	0.34	0.71	0.57	0.50	0.38	
5.	Health Status	0.23	0.22	0.57	0.44	0.84	0.73	0.55	0.46	
6.	Psychology	0.26	0.25	0.66	0.62	0.90	0.73	0.61	0.53	
7.	Living Environmen t	0.23	0.22	0.51	0.44	0.73	0.52	0.49	0.39	
	QLIAP	0.20	0.20	0.55	0.43	0.79	0.62	0.51	0.41	

Source: Computed

8. Results and Discussions

The quality of life of the ageing population may differ according to their gender, age, economic status and living arrangements. Therefore, the Multi – variate ANOVA Language in India www.languageinindia.com

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Model was applied to analyse the variation in quality of life of the ageing population in Coimbatore district.

8.1 Multi – variate ANOVA Model for Quality of Life of Ageing Population

The conditions for applying Multi-variate ANOVA model permits to analyze the variation in quality of life of the ageing population. In this analysis, the quality of life index is considered as a dependent variable. On the other hand, sex, age, economic status and living arrangements are treated as fixed factors. From the results of ANOVA model, the computed 'F' values are found to be statistically significant. It confirms the variation in quality of life of the ageing population due to sex (131.77), age (17.56), economic status (649.94) and living arrangements (16.07). The computed values are higher than the table value of 'F' at 5 per cent level. The significant parameters are compared pair wise. Pair wise comparison of parameters results is drawn below.

Table 7 Compared 'F' Ratios of Quality of Life: Multivariate ANOVA Model

Sl. No	Source of Variation	Sum of Squares	d.f	Mean Sum of Square	'F'
1.	Variations due to Sex	0.32	1	0.32	131.77*
2.	Variations due to Age	0.09	2	0.04	17.56*
3.	Variations due to Economic Status	3.17	2	1.58	649.94*
4.	Variations due to Living Arrangement	0.08	2	0.04	16.07*
	Error	0.48	196	8.44	-
Total		60.52	240	-	-
$ar{R}^2$		0.94*			
F-value		3.38*			

Source: Computed

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8.2 Sex-wise Comparison of Quality of Life of the Ageing Population

In this model, the 'F' values for quality of life of the ageing population by gender

are found significant at 5 per cent level. The student 't' value for testing variation in

quality of life due to genders is also found to be statistically significant at 5 per cent level.

The result indicates that the quality of life index value is the maximum for male ageing

population to the extent of 0.49 whereas 0.37 for the female ageing population. In

general, the male population has more improvement in society and family than the female

population. This factor helps the male population to attain a high score in quality of life.

At the same time, prevalence of male domination, societal heritage and economic

dependence adversely affect female ageing population to achieve betterment in quality of

life.

8.3 Age-wise Comparison of Quality of Life of the Ageing Population

According to the age, the surveyed respondents are grouped into three categories

such as young old, middle old and old old. The quality of life score is higher for middle

old to the extent of 0.47 followed by young old 0.45 and it is least in old old to the extent

of 0.39. The student 't' test indicates significant difference between young old, middle

old and old old (see Table 8).

The results of age - wise comparison confirms the variation between age groups.

In the study area most of the old are economically dependent and they have purely

depended their family members and relatives for their daily needs. At the same time the

level visual and physical disabilities are acute for old old as compared to middle and

young old. These factors prevent them to actively participation in family, social, and

senior citizen's organization. On the other hand, young old have the responses such as

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children marriage, education and family welfare. The responsibilities of young old lead the financial, psychological and health problems and affect the quality of life. However, there is no much variation between middle and young old ageing population.

Table 8 Ageing-wise Comparison of Quality of Life of the Ageing Population

Sl. No	Ageing (i)	Ageing (j)	Mean Difference	't' Value
1.	Young Old	Middle Old	- 0.02	2.85*
	(0.45)	(0.47)	- 0.02	
2.	Young Old	Old Old	0.06	4.20*
	(0.47)	(0.39)	0.00	
3.	Old Old	Middle Old	- 0.09	1.25 NS
	(0.39)	(0.47)	- 0.09	

Source: Computed

Note: * Significant at 5 per cent level, N.S represent the Not Significant.

8.4 Economic Status-wise Comparison of Quality of Life of the Ageing Population

In this analysis, the economic status of the ageing population has been classified as dependent, partially dependent and independent. The quality of life score is higher for the independent (0.67), followed by partially dependent (0.47) and least for dependent (0.18). The student 't' test is statistically significant between dependent and partially dependent (5.07), between dependent and independent (6.63) and independent and partially dependent (2.30) (see Table 9). The results prove the relationship between economic status and quality of life of the ageing population.

Table 9 Economic Status-wise Comparison of Quality of Life of the Ageing Population

Sl.	Economic Status (i)	Economic Status	Mean	't'
No	Economic Status (i)	(j)	Difference	Value
1.	Dependent	Partially Dependent	0.20	5 07*
	(0.18)	(0.47)	- 0.29	5.07*
2.	Dependent	Independent	0.40	6.63*
	(0.18)	(0.67)	- 0.49	
3.	Independent	Partially Dependent	0.20	2.20*
	(0.67)	(0.47)	0.20	2.30*

Source: Computed

Note: * Significant at 5 per cent level

The stable financial situation helps the economically independent ageing to satisfy their basic needs, access the health care facilities, social status, peaceful living environment, family support and peace of mind. It helps them to achieve a maximum score in quality of life. But those factors are not favourable to the partially dependent and dependent ageing populations.

8.5 Living Arrangement-wise Comparison of Quality of Life of the Ageing Population

Source of living arrangements of the surveyed ageing populations are own family of the ageing population, children's family and relative's family. The quality of life score is higher for the ageing population living with their own family (0.50), followed by living with children's family (0.46) and least for relative's family (0.32). The student 't' test is statistically significant between own and children's family (1.92), between own and relative's family (5.75) and relative's and children's family (3.94) (see Table 10). The respondent living with own family attained high scores in quality of life for the following reasons: The respondents living with own families are enjoying benefits of family care,

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health facilities and other amenities. In the case of living with children's and relative's family are viable to access the above mentioned facilities. Therefore, the quality of life of the ageing population living with children's and relatives family severely affected.

Table 10 Living Arrangement-wise Comparison of Quality of Life of the Ageing Population

Sl.	Living Arrangement	Living Arrangement	Mean	't'
No	(i)	(j)	Difference	Value
1.	Own Family	Children's Family	0.04	1.92*
	(0.50)	(0.46)	0.04	
2.	Own Family	Relative's Family	0.10	5.75*
	(0.50)	(0.32)	0.18	
3.	Relative's Family	Children's Family	0.14	3.94*
	(0.32)	(0.46)	- 0.14	

Source: Computed

Note: * Significant at 5 per cent level

9. Conclusion

The quality of life of the aging population differs according to their sex, age, economic status and living arrangements. The quality of life of the ageing population varies between male and female respondents. Social and economic empowerment of the male population is greater as compared to female population. It helps male ageing population to achieve higher level of quality of life as compared to female ageing population. Due to the prevalence of domination, societal heritage, culture and economic dependence, the female ageing population is adversely affected.

Among the ageing groups, the middle age groups scores higher value in quality of life as compared to young old and old old. However, there is no such wide variation Language in India www.languageinindia.com

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between young old and middle old. The old old are facing the problem of disability and

loss of familial care. On the other hand, the young old are facing the problems of

children's marriage and education. The family burden affects the quality of life of the

young old and old old ageing population.

Of the total respondents, the economically independent ageing population has

attained higher level of life than that of partially dependent and dependent ageing

population. Due to their economic independent, they are capable to access the basic

needs, medical needs, social status, family support and peace of mind. These factors

adversely affect the quality of life of partially dependent and dependent ageing

population.

Likewise, the quality of life of the ageing population differs according to their

living arrangements. Among the different living arrangements, the respondents those

head the family enjoy better quality of life as compared to those live with their children's

and relative's family. The respondents those head the family are able to enjoy the

benefits, protection and services from the family members. On the other hand, the ageing

population loving with their children's and relative's are expecting the help from them.

Some time the consequences of low family income and loss of family support worsen the

living conditions of the ageing population.

The results of the Multi-variate ANOVA model confirm the variation in quality of

life due to the sex, age, economic status and living arrangements of the ageing

population. This results warrant the need for the measures to promote the quality of life

of the ageing thorough the introduction of new social welfare measures, widening the

existing welfare schemes, involvement of civil societies and NGO's.

10. Suggestions

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From the above findings and conclusion, few suggestions are given to the policy makers to take care of the well being of the ageing. The suggestions are as follows:

- 1. The ageing population those are economically dependent and partially dependent face huge economic problems. The government gives monthly financial assistance for those who live alone and without son / daughter. But, the ageing those who live with the children also suffer for their survival. Therefore, the Government has to address those problems by giving monthly financial assistance for the ageing.
- 2. Particularly, the female ageing faces huge problems as compared to male. The government has to look into this menace by introducing legal measures to secure the female.
- The Government has to provide employment opportunities for both male and female ageing according to their age. This may end-up the economic problems of the ageing in the long run and income of the ageing may assure economic security.

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