# Assessment Study among Urban Elderly A Medico-Social Approach 

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#### Abstract

The present study has been conducted in Raipur city, in the state of Chhattisgarh, India. The state is a young, where there is rapid urbanization and modernization is ongoing. The health of geriatric population is a present as well as future concern. This poses mounting pressures on various socio-economic fronts of the state, including pension outlays, health care expenditures, saving levels etc. This makes it necessary to look into the various aspects of their problems: Health, social rejection, economic, psychological and other allied aspects. In the traditional joint families, infirmities are taken care of by the individuals, immediate circle of relations and family members. Older people enjoy a sense of honour and authority and had the responsibility in decision-making. However, in recent times, as a result of changing circumstances due to demographic transition, rapid pace of industrialization and urbanization, disintegration of joint family structures into unitary ones, the older people become more vulnerable to physical disabilities as a result of different morbidities and poor health seeking behavior. This study will prove to be useful for the planners and policy makers in Government and private organizations and will help in enhancing the understanding of the problems of elderly people in the state.


Key words: Morbidity, elderly population, ageing, physical disabilities, urbanization.

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## 1. INTRODUCTION

The phenomenon of population ageing is becoming a major concern for the policy makers all over the world during the last two decades. Ageing of population is affected due to downward trends in fertility and mortality i.e. due to low birth rates with long life expectancies. Life expectancy at birth is projected to continue to rise in the coming years all over the world. The aged population has specific health problems that are basically different from those of adults or young persons. Most diseases in the aged are chronic in nature-cardiovascular, arthritis, stroke, cataract, deafness, chronic infections, cancer. Disease process is usually multiple. Availability and utilization of health services is an important determinant of the health status of population. The needs for health services tend to vary directly with the age of the individuals. The older the one gets, the more health care he needs. Although the aged people face multiple health problems, even then, they do not consider seeking medical aid and as a result, many conditions remain unreported and untreated till they become complicated. This emphasizes the need for strengthening of health care system for elderly population. According to Paul Wallace, all individuals should be prepared to face later years in life

[^0]within their own limitation gloriously. Chhattisgarh is moving fast towards an 'aged society', with the aged population constituting 7.2 percent (India 8 percent) and in another 10 years, percentage of elderly is projected to be 10 percent. Though a large number of studies on various factors influencing the aged are available in western countries, not much data have been generated as applicable to the Indian changing scenario. Urban areas are expected to grow at higher rate as compared to non-urban. An attempt as been made to study the aspects of changes in health institutions both demographically and epidemiologically associated with the changes in prevalence of chronic illnesses.

## 2. Objectives of the study:

The objective of this study are: (i) to reveal the health and social problems of the aged and their attitude towards life; (ii) to know the physiological conditions of elderly; (iii) to know the awareness level among elderly regarding health and government policy for them; (iv) to study the demographic profile of elderly; and (v) to assess the desires and needs of the elderly people towards their emotional, care giving, social and cultural issues.

## 3. METHODOLOGY

### 3.1 Sampling and Sample Size

This study is a community based cross-sectional observational study. Study was conducted in randomly selected 32 areas distributed in Raipur city including Urban and Slum areas. Multi-stage simple random sampling technique. Sample size (640) was calculated by using statistical formula:
$n=\frac{\left(Z_{\alpha / 2}^{2}\right) p(1-p)}{d^{2}}$
$P=$ Morbidity Problems (50\%), $d=$ Absolute Precision (4\%), Confidence level = $95 \%$. As there is no baseline study in Raipur, Chhattisgarh; therefore, it is not possible to estimate ' P ', a figure of $0.5(50 \%)$ is used. This is the 'safest' choice for the population proportion, since the sample size required is largest when $P=0.5(50 \%)$ (128). A total of 600 figures come using statistical formula. For making uniformity, 20 subjects from each of 32 areas are selected that comes 640 . Therefore, a total 640 respondents are included in the study.

### 3.2 Inclusion and Exclusion Criteria

All elderly persons in the age group of 60 years and above who are residing in the study area for at least one year, and willing to participate in the study. Those elderly persons who are not willing to participate in the study were excluded.

### 3.3 Selection Method

List of zones and wards including slum and urban areas are obtained from Municipal Corporation Raipur. From eight zones of Raipur city by simple random technique, four zones are selected. Out of the four zones, four wards are selected by simple random technique. From each ward, one slum area and one urban area are included in the study using simple random technique. A total of 32 areas are included in this study. Door to door survey is conducted. From each area, 20 elderly are included in study.

## 4. FINDINGS

Descriptive cross-sectional observational study is undertaken among the elderly population in Raipur city. Information is collected from 640 elderly persons. The findings of the present study is an attempt to explore the morbidity pattern and healthcare seeking behavior among elderly population.

Table 1. Age and sex distribution of elderly population

| Age group <br> (vararc) | Male |  | Female |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | $\%$ | No | $\%$ | No | $\%$ |
| $60-74$ | 200 | 74.90 | 323 | 86.59 | 523 | 81.71 |
| $75-84$ | 67 | 25.09 | 47 | 12.60 | 114 | 17.81 |
| $>85$ | 0 | 0 | 3 | 0.80 | 3 | 0.46 |
| Total | 267 | 41.71 | 373 | 58.28 | 640 | 100 |

$\chi^{2}=18.384 ; d f=2, p<0.0001$.

Table- 1 shows that out of the total studied elderly (640), more than two-thirds (81.71\%) belong to young-old age group followed by old (17.81\%) and very old age group ( $0.46 \%$ ). Females (58.28\%) were more than males (41.71\%). There was no male in very old age group.

In a similar study done by Aggrawal Anupam (1992), observed that out of total 612 elderly studied ranged from 60 to 102 years, the majority ( $79.41 \%$ ), however, belonged to the age group 60 to 75 years. The age distribution of the males and females was found to be essentially similar. Males were $52.0 \%$ as against $48.0 \%$ females.

Another study done by Lena A. et al. (2006) showed that a major fraction of the population was in the young old age group; while a small fraction (2.8\%) was 80 years old or older. Males and females formed an almost equal proportion of the study sample. Sex ratio in present study was 1415.73 women per 1000 men. At present, sex ratio for general population in India is 943 as per office of the Registrar General and Census Commissioner, India. Sex Ratio in Urban regions of Chhattisgarh was 956 females per 1000 males.

The sex ratio trend are shown (number of females per 1000 males) for elderly and the general population, in 1951, 1028 for elderly and 946 for general population. In 1961, 1000 for elderly and 941 for general population. In 1971, there were 938 for elderly and 930 for general population. In 1981, there were 960 for elderly and 934 for general population. In 1991, there were 930 for elderly and 927 for general population. In 2001, there were 972 for elderly and 933 for general population. In 2011, there were 940 for general population.

Table 2. Education wise distribution of population

| Literacy Status | Male |  | Female |  | Total |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
|  | No |  | $\%$ | No | $\%$ | No |
| $\%$ |  |  |  |  |  |  |
| Illiterate | 52 | 26.26 | 146 | 73.73 | 198 | 30.93 |
| Up to primary | 28 | 33.33 | 56 | 66.66 | 84 | 13.12 |


| Up to higher <br> secondary | 112 | 43.57 | 145 | 56.42 | 257 | 40.15 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  <br> above | 75 | 74.25 | 26 | 25.74 | 101 | 15.78 |
| Total | 267 | 41.71 | 373 | 58.28 | 640 | 100 |

$$
\chi^{2}=66.23 ; d f=3, p<0.0001
$$

The above table shows statistically significant relationship between literacy status and sex. A significant number of the study population was illiterate (30.93\%).The percentage of illiterate women was more (73.73\%) than that of males (26.26\%). Among literate $13.12 \%$ up to primary, $40.15 \%$ o up to higher secondary, $15.78 \%$ were graduate \& above. In another study done by Shradha K. et al. (2012) in urban population of Mysore, Karnataka, India out of 526 subjects, about half of the elderly were illiterate. Lena et al. (2012) reported illiteracy in $45.1 \%$, more among females (62\%) than males (22.8\%). Present study has findings similar to Lena et al. (2012), literacy was more than the study of Shradha K et al (2012).

Table 3. Sex distribution of marital status

| Marital status | Male |  | Female |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | $\%$ | No | $\%$ | NO | $\%$ |
| Never <br> married | 0 | 0 | 0 | 0 | 0 | 0 |
| Married | 86 | 33.72 | 169 | 66.27 | 255 | 39.84 |
| Widowed | 179 | 47.98 | 194 | 52.01 | 373 | 58.28 |
| Separated | 2 | 16.66 | 10 | 83.33 | 12 | 1.87 |
| Divorced | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 267 | 41.71 | 373 | 58.28 | 640 | 100 |

The above table shows that, out of total elderly, $58.28 \%$ were widowed, $39.84 \%$ married, $1.87 \%$ separated. None of them were divorced and none were never married. Among widowed, $52.01 \%$ were female elderly whereas $47.98 \%$ were male elderly. Among those who were separated, females were more (83.33\%) than males (16.66\%).

In another study, similar result were observed. Shradha $K$ et al (2012) in a study of urban population of Mysore, Karnataka, India observed that $39.7 \%$ of the aged were widow and $5.7 \%$ widower. Raj and Prasad (1970) in a U.P. village and Purohit and Sharma (1972) in rural Rajasthan found no unmarried women and $3.78 \%$ and $4.34 \%$ bachelor respectively in their studies.

Table 4. Distribution of elderly according to their socio economic status

| SES | Male |  | Female |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | $\%$ | No | $\%$ | No | $\%$ |
| Class I | 63 | $(23.59)$ | 9 | $(2.41)$ | 72 | $(11.25)$ |
| Class II | 54 | $(20.22)$ | 119 | $(31.90)$ | 173 | $(27.03)$ |
| Class III | 50 | $(18.72)$ | 76 | $(20.37)$ | 126 | $(19.68)$ |
| Class IV | 96 | $(35.95)$ | 137 | $(36.72)$ | 233 | $(36.40)$ |
| Class V | 4 | $(1.49)$ | 32 | $(8.57)$ | 36 | $(5.62)$ |
| Total | 267 | 100 | 373 | 100 | 640 | 100 |

In the present study, $36.40 \%$ of the total elderly population belong to class IV followed by Class II (27.03\%), Class III (19.68\%), and Class 1 (11.25\%).where as only $5.62 \%$ belong to class V. There was statistically significant difference between male and female socioeconomic status. Except in Class I, of all other socio-economic classes, female elderly were more than male elderly.

In other study similar observations were made. Shradha K. et al. (2012) in a study of urban Population of Mysore, Karnataka, India observed that socio-economic status revealed that there were mainly three classes where elderly belongs to; upper middle, upper lower, lower and lower middle. Most of the elderly (64.8\%) belong to class IV. None of the elderly belong to upper socioeconomic group. $27.6 \%$ of the aged females and $10.6 \%$ of the aged males belong to lower socioeconomic class according to Modified Kuppuswamy’s socio-economic scale.

Table 5. Occupation wise distribution of elderly population

| Occupation | Number of persons | Percentage (\%) |
| :---: | :---: | :---: |
| Professional | 116 | 18.12 |
| Clerical/Shop owner/Farmer | 72 | 11.25 |
| Skilled worker | 26 | 4.06 |
| Semiskilled worker | 12 | 1.87 |
| Unskilled | 62 | 9.68 |
| Unemployed | 269 | 42.03 |
| None | 83 | 12.96 |
| Total | 640 | 100 |

In the present study, a large proportion (42.03\%) of the population was unemployed. The principal occupation of the persons who were currently employed in some gainful occupation was agricultural farming/shop owner/clerical (11.25\%), while $18.12 \%$ were professional including retired persons. In the remaining of the population, $12.96 \%$ was not doing anything. In the present study $42.03 \%$ population was unemployed. This may be due to greater percentage of the female in study population and maximum were house wives. Enquiry into the past occupation of the respondents revealed that the principal past occupation was also agricultural farming/clerical/shop owners. Majority of the females were looking after their household work in the past. Many were also doing farming.

Purohit and Sharma (1972) had also reported agricultural farming as the chief current (62.25\%) as well as the past occupation (63.25\%). Shradha K et al (2012) observed that $68.8 \%$ of the respondents were unemployed followed by $16.2 \%$ unskilled worker, $5.9 \%$ semiskilled worker, $5.7 \%$ semi professional and $3.4 \%$ skilled workers. None of the elderly belonged to professional occupation and semi professional was mainly comprised of businessmen. Above table indicates that about a third of the female elderly and $58 \%$ of the male elderly population were unemployed. In all category of occupation, proportion of male respondents was higher than female respondents except in the category of skilled worker which was found to be $4.7 \%$ among both genders.

Table 6. Distribution of population by type of family

| Type of family | Number | Percentage (\%) |
| :---: | :---: | :---: |
| Nuclear | 102 | $10 \%$ |
| Joint | 538 | $84.07 \%$ |
| Total | 640 | $100 \%$ |

In the present study, above table shows a large proportion (84.07\%) were living in joint families and $15.93 \%$ in nuclear family settings, only a few (5.93\%) were living alone. Those who were living in well knit settings were either living with their spouse, children and grand children or with spouse or children only. It has been seen that the elderly are not only happier if actively occupied at home but remain healthier in such surroundings as well. Many of the happiest old people were members of large families. Independent living arrangements may be inadvisable in some instances and even dangerous in others for as the years advance, the physical disabilities keep on adding up and at that time they require maximum help. Similar findings were observed in other study in India. In western culture pattern, is opposite. Bose and Saxena (1964), Mitra et al (1971) and Purohit and Sharma (1972) have all reported a very small proportion of the elderly living alone, the percentages reported being $1.30 \%, 4.71 \%$ and $2.6 \%$ respectively.

Studies from the West, on the other hand, have shown a larger proportion of the aged living alone. Meyrick and Cox (1969) reported that $22.0 \%$ of the aged were living alone in U.K. in 1968 as compared to only $15.0 \%$ in 1960-61. Thus the problem of loneliness and social isolation is far less, in our country, as compared to western countries.

The percentage of elderly living alone is low in India as the care of the old is a part of our cultural heritage and the old are treated with respect and affection. However, increasing urbanization, along with stress on smaller family norms may cause a change in social values resulting in lack of attention towards the old. This might create problems for the old and they might find themselves in the same predicament as their counterparts in the West. This tendency needs to be arrested by taking positive steps to
inculcate a sense of respect and attachment towards their elders among the young people from now.

Table 7. Distribution of population as per source of income ( $n=640$ )

| Source of income | Number of persons | Percentage (\%) |
| :--- | :---: | :---: |
| Salary | 22 | 3.43 |
| Pension | 128 | 20 |
| Old age pension | 95 | 14.84 |
| Financial investment | 90 | 14.06 |
| Business | 118 | 18.43 |
| Financially dependent on <br> others | 309 | 48.28 |
| Total | 762 | - |

Note: Multiple source of income was observed in many subjects.
The above table shows $48.28 \%$ were financially dependent on others. Only $14.84 \%$ were getting old age pension. Out of total dependents, $66.66 \%$ were dependent on their own children, $13.26 \%$ on grand children and $1.29 \%$ on spouse, $14.56 \%$ on others.

In other studies, observations were different. Shradha K. et. al. (2012) in a study of urban population of Mysore, Karnataka, India observed that about $48.6 \%$ elderly population were receiving pension ( $16.9 \%$ male elderly and $29.8 \%$ female elderly).

Table 8. Distribution of elderly according to awareness of Government welfare scheme for elderly

| Status of awareness | Number of elderly | Percentage (\%) |
| :--- | :---: | :---: |
| Aware | 215 | 33.59 |
| Not aware | 425 | 66.40 |
| Total | 640 | 100 |

The above table shows, out of total 640 elderly $33.59 \%$ were aware of various Government welfare schemes for the elderly. $29.68 \%$ were eligible for old age pension, out of which $65.26 \%$ were getting old age pension.

In another study by Lena A, et al (2012), only $35.7 \%$ were aware of the Government welfare schemes for the elderly and only $14.6 \%$ had utilized the geriatric welfare services. Three-fourths of the population studied was not eligible for these schemes because of having male children or property. A study conducted by Goel et al. (2003) showed that $45 \%$ of the respondents had utilized geriatric welfare services. In another study by Lena A., et al. (2012), reported $14.6 \%$ elderly had utilized geriatric welfare services.

Seal (1973) in a survey in Calcutta found that $70 \%$ of the elderly people between 60-85 years of age received no pension.
K. Shradha (2012) in a study in urban population in Mysore, Karnataka observed that about $48.6 \%$ of the elderly were receiving pension ( $16.9 \%$ male elderly and $29.8 \%$ female elderly). Mehrotra (1969) reported that four states: Tamil Nadu, Kerala, U.P. and West Bengal give old age pension ranging from Rs $15 /$ - to Rs 20/- per month, which is too meager .

Table 9. Distribution of elderly as per housing conditions

| Constructions | Slum |  | Non Slum |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | $\%$ | No | $\%$ | No | $\%$ |
| Kachha | 93 | 100 | 0 | 0 | 93 | 14.53 |
| Semi Pakka | 95 | 100 | 0 | 0 | 95 | 14.84 |
| Pakka | 132 | 29.20 | 320 | 70.79 | 452 | 70.62 |
| Total | 320 | 50 | 320 | 50 | 640 | 100 |
| 2.Cross ventilation <br> (in living rooms) |  |  |  |  |  |  |
| Present | 161 | 40.04 | 241 | 59.95 | 402 | 62.81 |
| Absent | 159 | 66.80 | 79 | 33.19 | 238 | 37.18 |
| Total | 320 | 50 | 320 | 50 | 640 | 100 |
| 3. Natural light <br> (In living rooms) |  |  |  |  |  |  |
| Adequate | 120 | 28.30 | 304 | 71.69 | 424 | 66.25 |
| Inadequate | 200 | 92.59 | 16 | 7.40 | 216 | 33.75 |
| Total | 320 | 50 | 320 | 50 | 640 | 100 |
| 4. Overcrowding |  |  |  |  |  |  |
| Present | 205 | 72.18 | 79 | 27.81 | 284 | 44.37 |
| Not Present | 115 | 32.30 | 241 | 67.69 | 356 | 55.62 |
| Total | 320 | 50 | 320 | 50 | 640 | 100 |
| 5. Drinking water source |  |  |  |  |  |  |
| Pipe water | 0 | 0 | 0 | 0 | 0 | 0 |
| Ground water | 47.85 | 267 | 52.14 | 512 | 80 |  |
| Well water | 58.59 | 53 | 41.40 | 128 | 20 |  |
| Bottled water | 0 | 50 | 320 | 50 | 640 | 100 |
| Total |  |  |  |  |  |  |

Table 9 shows majority (91.25\%) of the elderly persons were living in their own houses without any large open space. About $70.62 \%$ had pakka (concrete) houses (14.84\%) semi-pakka, and $14.53 \%$ had kachha houses. Out of all who were residing in pakka houses, majority (70.79\%) were urban dwellers. Cross ventilation was present in $62.81 \%$ houses, more in urban (59.95\%) than slum houses (40.04\%). Natural light especially in the living room was adequately present in the majority of the houses (66.25\%). Urban houses were more (71.69\%) adequately lighted than slum houses (28.30\%). Houses in slum areas were usually having single door rooms with no windows/ventilators resulting in poor ventilation and light. About $44.37 \%$ of the elderly were living in overcrowded conditions in their houses. More than three fourth of the houses i.e. $80 \%$ had tap water supply, where as $20 \%$ were using ground water. A remarkable observation was well-water and bottled water users were nil. Among tapwater users, $52.14 \%$ resided in urban areas and $47.85 \%$ in slum areas. Ground water was maximally used by slum dwellers (58.59\%).

Table 10. Distribution of elderly persons according to Substance abuse

| Substance use | Male | Female | Total |
| :---: | :---: | :---: | :---: |
| Yes | $124(61.38 \%)$ | $78(38.61 \%)$ | $202(31.56 \%)$ |
| No | $143(32.64 \%)$ | $295(69.35 \%)$ | $438(68.43 \%)$ |
| Total | 267 | 373 | 640 |

$$
\chi^{2}=46.956 ; d f=1, p<0.0001
$$

The above table shows statistically significant relation between substance abuser and sex.Table-10 shows $31.56 \%$ of total elderly population was substance abuser. Out of which, male elderly were more (61.38\%) in comparison to female elderly (38.61\%).

Table 11. Distribution of elderly among substance abusers

| Substance | Number | Percentage |
| :---: | :---: | :---: |
| Tobacco chewing | 31 | 12.10 |
| Smoking(Cigarette/Bidi/Hukka) | 88 | 34.37 |
| Gutka/Pan | 19 | 7.42 |
| Gudakhu. | 69 | 26.95 |
| Alcohol | 46 | 17.96 |
| Others | 3 | 1.17 |
| Total | 256 | 100 |

Multiple substance abuse was observed in many subjects.
The above table shows that out of total substance abusers (202), $34.37 \%$ were practicing smoking, followed by Gudakhu (26.95\%), Alcohol (17.96\%), Tobacco chewing (12.10\%), Gutka/Pan (7.42\%) and others (1.17\%).

Table 12. Distribution of population as per physical activity

| Grading | Male |  | Female |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No | $\%$ | No | $\%$ | No | $\%$ |
| Light <br> activity | 127 | 31.05 | 282 | 68.94 | 409 | 63.90 |
| Moderate <br> activity | 120 | 60.30 | 79 | 39.69 | 199 | 31.09 |
| Heavy <br> activity | 20 | 62.5 | 12 | 37.5 | 32 | 5 |
| Total | 267 | 41.71 | 373 | 58.28 | 640 | 100 |

$$
\chi^{2}=53.088 ; d f=2, p<0.0001 .
$$

As evident from the Table 12, majority (63.90\%) of the people were in light activity group followed by moderate activity group (31.09\%) while only 5\% were in heavy activity group. There was statistically significant difference observed between males and females, Males were harder working than females. Among elderly performing light activity, $68.94 \%$ were females whereas $31.05 \%$ were males. Among moderate activity, $60.30 \%$ were males whereas $39.69 \%$ were females. In heavy activity performer, males were ( $62.5 \%$ ) and females were (37.5\%). In a study by Aggrawal Anupam (1992) similar finding was observed. Light activity was performed by $67.65 \%$, moderate activity $28.43 \%$ and heavy activity was done by only $3.92 \%$ population. This is almost comparable to the present study.

Table 13. Distribution of elderly as per leisure time activity

| Activity | Male ( $n=267$ ) | Female ( $n=373$ ) | Total $(n=640)$ |
| :---: | :---: | :---: | :---: |
| Nothing | $65(24.34 \%)$ | $88(23.59 \%)$ | $153(23.90 \%)$ |
| Household activity | $102(38.20 \%)$ | $157(42.09 \%)$ | $259(40.46 \%)$ |
| Visit friends or old <br> people gathering | $114(42.69 \%)$ | $182(48.79 \%)$ | $296(46.25 \%)$ |
| Religious functions | $114(42.69 \%)$ | $182(48.79 \%)$ | $296(46.25 \%)$ |
| Reading/writing | $40(14.98 \%)$ | $53(14.20 \%)$ | $93(14.53 \%)$ |
| Music/Cinema/Radio/T | $88(32.95 \%)$ | $90(24.12 \%)$ | $178(27.81 \%)$ |
| Playing card or <br> Gambling | $31(11.61 \%)$ | $16(4.28 \%)$ | $47(7.34 \%)$ |
| Involve with family in <br> gossiping. | $88(32.95 \%)$ | $103(27.61 \%)$ | $191(29.84 \%)$ |

Multiple activities were observed in many subjects. $\chi^{2}=19.983 ; d f=7, p<0.005$.

The above table shows statistically significant relation between leisure time activity and elderly people. In leisure time maximum (46.25\%) were utilizing in religious functions and old people gathering. Females (48.79\%) were more in comparison to males (42.69\%). Only $7.34 \%$ were involved in card playing and gambling. Male involvement was more than female.

Utilization of free time is a major problem of the elderly, all over the world. After retirement, their free time increases while the income decreases, the latter in turn limits the variety of social contacts that the elderly can, resulting many a times in a feeling of boredom, loneliness and isolation.

More frequently reported leisure time activities were religious and to visit old people gathering (46.25\%) followed by household activities (40.46\%). Other activity reported were, gossiping (29.84\%), music/cinema/radio/TV (27.81\%), reading/writing (14.53\%), and card playing (7.34\%).

Out of total population $23.9 \%$ were sitting idle doing nothing. In few activities like religious, visiting to friend, household activity, females were more than males.

Card playing or gambling was reported by $10.78 \%$ persons as compared to $1.44 \%$ in Rajasthan study conducted by Purohit and Sharma (1972).

Sharma (1969) had reported puja and singing bhajans in 46.02\%, reading or writing in $84.65 \%$ and listening to radio in $59.65 \%$ as a leisure time activity ,while Mittra et al (1971) reported puja and bhajans/prayers as a leisure time activity in $63.41 \%$ of their respondents. However, since both of these studies were urban studies, in present study slum dwellers were also included. The difference observed while comparing these with the present study is justified as far as pattern of leisure time activities are concerned.

## 5. CONCLUSION

Indian tradition is automatically respectful and sympathetic towards elders. Ageing as a natural fact has all along engaged the consideration for the civilized world. Provisions for the aged in the society have become one of the constitutive subjects of modern welfare state. The issues of the aged differ from society to society and have various dimensions in our country. Though a large number of studies on various factors influencing the aged are available in western countries, not much data have been generated as applicable to the Indian scenario. Urban areas are expected to grow at higher rate as compared to non-urban. Out of 640 elderly included in the study, 466 perceived themselves ill, whereas perception of illness was less $67.81 \%$ in slum areas. Perceived illness was increasing with advancement of age, $70.93 \%$ in young old to $100 \%$ in very old. Perception of ill health was more in urban area than slum area and more in females than in males. The outcome of this study reveals that a major section of the aged is out of the work force, partly or totally dependent on others, and suffering from health problems with a sense of neglect by their family members. There is an urgent need for involvement to ensure the health of this vulnerable section and to create a strategy to meet the care and requirements of the aged people. Finally, it could be concluded that the general feelings of the elderly living in the joint families have better position than that of the elderly of the nuclear family. Better social relations are maintained by the joint family dwellers because they have regular interaction, expressions of feelings and support from the family members. The existing condition of the elderly living in as separated is that they feel lonelier, depressive and have a lower level of satisfaction with life. In this perspective, the need for preserving Indian tradition of joint family
and the reciprocal cooperation and understanding between the younger and the older generations could be more pressing.

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