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HEALTH STATUS OF GERIATRIC POPULATION IN SLUMS OF ROURKELA

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ABSTRACT

Introduction- Projections beyond 2016 made by UN have indicated that 21% of the Indian population will be more than 60 years by 2050 in comparison to 6.8% in 1991. Health of elderly in the slum areas is a neglected arena. Hence this study was carried out with the objective of knowing the sociodemographic status and morbidity pattern among the elderly in these areas Materials & Methods- This was a Cross sectional Study where males and females who had completed 60years of age, willing to participate and also share their medical record were included in the study. 24 slums of Rourkela were selected by random selection technique. This study was carried on for a period of 6 months were 224 subjects were interviewed, a detailed clinical history was taken, medical records verified and blood pressure was measured .Data was collected in a predesigned pretested questionaire containing both open and close ended questions .Chi square test was used for analysis .Results-T he number of females above 80 years of age were 34.8% compared to males who were 9.1%. Apart from systemic morbidities 91 % of the elderly also complained of fragility ie complex physiological deterioration, unexplained weight loss, poor grasping strength, self reported exhausation, slow walking speed and low physical activity.All of them suffered from at least one of the morbidities included in the study. Conclusion-There is a growing need of interventions to ensure the health of this vulnerable geriatric population and to create a policy to meet the care and needs of the disabled elderly.

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INTRODUCTION

The average length of human life has increased over the countries as living conditions have improved and aging population is on the rise. Projections beyond 2016 made by UN have indicated that 21% of the Indian population will be more than 60 years by 2050 in comparision to 6.8% in 1991.According to 2011 census, the elderly comprised 7.8% of the population .Aging an integral part of living ,typically is accompanied by gradual but progressive physiological changes and an increased prevalence of acute and chronic illness .Although neither a disease nor a perse, aging nonetheless is associated with a high incidence of physical impairment and functional disability.

In India life expectancy at 60yrs for the year 1995 -96 was14.6 yrs for males and 17 for females .But, the gain in survival may be accompanied by increased morbidity due to age related chronic diseases, falls accidents etc. Thus disability among the elders will emerge as a problem in near future. Among the several concerns of humankind the one leading to a life free of illness disability and poor health during old age has been a dominant one. Slums are unserved and underserved areas of urban towns and cities. It has been projected that half of the Indian population will lve in urban areas by 2020 and nearly one third of them will be slum dwellers and because of economic reasons the health of the elderly would still remain a neglected arena.

Since Gerontical research in India is of recent origin it is marked by absence of longitudinal as well as cross sectional studies on several aspects concerning the elderly. Besides no handy and concrete data are available regarding problems of the aged in the slums of Orissa.

Hence this study has been taken up to know the health status of the aged in the slums of Rourkela. This study was carried out with the objectives of knowing the socio demographic profile of the study population and to assess their morbidity patterns

MATERIALS AND METHODS

This was a Cross sectional Study where males and females who had completed 60years of age, willing to participate and also share their medical record were included in the study. Those who were acutely ill and bedridden were excluded from the study.

24 slums of Rourkela were selected by random selection technique. This study was carried on for a period of 6 months were 224 subjects were interviewed, a detailed clinical history was taken ,medical records verified and blood pressure was measured. Data was collected in a predesigned pretested questionaire containing both open and close ended questions.

Instruments used were Spygmomanometer, Weighing machine, Snellens chart, torch, Sociodemographic characteristics were noted and used for analysis.

.For subjects not diagnosed of hypertension earlier Systolic BP of >140 mmof hg and diastolic BP of >90mof hg was taken as hypertensive.

Arthritis, pain and swelling in the big joints fibrositis, myositis ,spondilytis either by history or by medical records was taken as diseases of the Musculoskeletal system.

For presence of chronic disease clinical history and examinations , physicians diagnosis and medical records was taken into consideration. Bergen Insomnia Scale containing six items pertaining to sleep onset, maintenance and early morning awakening was used to measure insomnia. Results were expressed as percentages and chi square test was used for analysis.

RESULTS

The study population was divided as per the WHO criteria of elderly and table I shows the details. Mean age of the study population was 70.57 =-2.3 years. Most of the elderly 164[73.2%] were either widows or widowers. Table I Age and Sex Distribution of the Study Population

Table 1 Age and Sex Distribution of the Study Populat					
Age Group	Males	Females	Total		
60-69	88(66.7)	44(33.3)	132		
Young old	(66.7)	(47.8)	(58.9)		
70-79	32(66.7)	16(33.3)	48		
Old old	(24.2)	(17.4)	(21.4)		
80 & above	12(27.3)	32(72.7)	44		
Very old	(9.1)	(34.8)	(19.6)		
Total	132.(58.9)	92(41.1)	224		
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Figures in parenthesis shows percentages

The second table shows the details of the sociodemographic status of the elderly. Majority 79.9% both males and females were illiterate.82.1% belonged to the lower socioeconomic tatus as per B G Prasad classification. Though most of them were occupied with some means of earning in their younger days only a small proportion12 (6.03%) of them are busy with their occupation now and all of them belonging to the young old group.

Table II Sociodemographic Profile of the Study Population.

Variable	Males n 132		Females n	ı=92	Total n 224
Literacy	number	%	number	%	
Illiterate	102	77.3	77	83.7	179
					[79.9]
Just literate	14	10.6	12	13.0	26
					[11.6]
Literate	16	12.1	3	3.2	19
					[8.4]
SES					
Lower	101	76.5	83	90.2	184
					[82.1]
Middle	21	15.9	6	6.5	27
					[3.1]
Upper	10	7.6	3	3.3	13
					[5.8]
Occupation (P	resent or Pr	evious)			
Daily	78	59.1	61	66.3	139
Labourers					[62.1]
Vendors	19	14.4	8	8.7	27
					[12.1]
Rickshaw	22	16.7	0	0	22
pullers					[9.8]
Auto drivers	10	7.6	1	1.1	11
					[4.9]
No job	3	2.3	22	23.9	25
					[11.1]

Habituations and addictions are difficult to part with even in elderly population but frequency of substance abuse was definitely reduced with age mostly due to loss of financial independence in the study population. Alcohol used by the respondents was mostly the local fermented drink prepared with rice. Paan and betel chewing was more common in females than males.71.4% of the females had no habituations or addictions.

Table III	Habituations &	Addictions	of the study	nonulation
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Table III Habituations & Addictions of the study population					
Habituation	Males	Females	Total	Chi	P value
& addiction	N=132	N=92	N=224	square	
Alcohol	76[86.4]	12[13.6]	88	45.08	0(s)
	[57.6]	[13.0]	[39.2]		
Smoking &	91[62.3]	55[37.7]	146	2.00	0.16(ns)
tobacco	[68.9]	[59.8]	[65.1]		
Betel	62[56.4]	48[43.6]	110	0.59	0.44(ns)
	[46.9]	[52.2]	[49.1]		
None	12[28.6]	30[71.4]	42	19.68	9E-06(s)
	[9.1]	[32.6]	[18.75]		

Table IV shows the distribution of various morbidities among the elderly and their significance level. The morbidties among elderly that were found to be significant were hypertension, decreased visual acuity, urinary problems and insomnia.

 Table IV
 Morbidity Pattern of the Study Population

Morbidity	Males	Females	Total	Chi	P value
				square	
Hypertension	62[57.4]	46[43]	108	.199	.655 (s)
	[47]	[50]	[48.2]		
Diabetes	51[62.2]	31[37.8]	82	.570	.450(ns)
	[38.6]	[33.7]	[36.6]		
Musculoskeletal	107[56.9]	81[43.1]	188	1.96	.162(ns)
	[81]	[88]	[83.9]		
Visual acuity	83[65.9]	43[34.1]	126	5.74	.016(s)
	[62.9]	[46.7]	[56.3]		
Hearing loss	91[57.9]	66[42.1]	157	.203	.653(ns)
	[68.9]	[50]	[70.1]		
Urinary	63[50.8]	61[49.2]	124	7.57	.006(s)
problems	[47.7]	[66.3]	[55.4]		
GI disturbance	72[58.1]	52[41.9]	124	.086	.769(ns)
	[54.5]	[56.5]	[55.4]		
Insomnia	61[44.5]	76[[55.5]	137	30.2	0(s)
	[46.2]	[82.6]	[61.2		
Cardiorespirato	41[64.1]	23[35.9]	64	.976	.323(ns)
ry	[31]	[25]	[28.6]		
Dental	102[62.6]	61[37.4]	163	3.29	.069(ns)
	[53]	[66.3]	[72.7]		
Sensorineural	41[56.2]	32[43.8]	73	.342	.559(ns)
	[31]	34.8]	[32.6]		

Apart from systemic morbidities 91 % of the elderly also complained of fragility ie complex physiological deterioration, unexplained weight loss,poor grasping strength,self reported exhausation, slow walking speed and low physical activity.

DISCUSSION

The findings of this study has been compared with various other community based studies of geriatric age group .The number of females above 80years of age were 34.8% compared to males who were 9.1%.

Study conducted by Jai Prakash Singh et al[1] reported 65.5% of the population in 60-69 years age group, 28.55 in 70-79 years age group and only 6% above 80 years

79.9% of the elderly in these slum areas were illiterate 83.7% being females and 77.3% being males.

Khadervalli et al [2]in their study reported only 27 % as illiterate and 31% as primary school literates.

82.1% belonged to low socioeconomic status, 62.1% of them being daily labourers when they were young.11.1% of the respondents had no jobs ever out of which 23.9% were females. However 8% of them were still working and they all belonged to young old group.

Present study concluded alcohol and tobacco use as 39.2% and 65% respectively .This is similar to the findings of Sanjiv Kumar Burman et al[3] who reported 30% and 47.5% respectively, whereas Jai prakash et al[4] reported alcohol use as 8% and tobacco 23.75%

In the present study none of the elderly were completely healthy in the entire study population

In a study conducted by Garg BS[5] et al it was reported that 72.90% of elderly were sick.

Taneja D K et al[6] reported of 20% of their study population as healthy and 80% of them being unwell in their study in Delhi.

Mehrotra et al[7] in their study found out that only 47.70% were sick.Venkoba Rao et al[8] also reported of only 54% being sick.

All the respondents were suffering from some or the other form of morbidity. Majority of them suffering from multiple ones which is comparable to that of previous study conducted by Venkova Rao.[8].

48.2% of the respondents were found to have been suffering from hypertension in the present study.

Hypertension was detected for 1st time in 15% of the slum dwellers who were not aware of the disease. They were advised to visit the nearest Government hospital with the reference slip provided by the authors. Padda S et al[9] in their study of elderly reported the prevalence of hypertension as 16.6%.Niranjan GV and Vasundhra MK [10]reported hypertension in 5.1% of the elderly.

36.6% were reported to have diabetes as per ther medical records in the present study whereas Sanjiv Ku Burman et al [3]and Jaiprakash et al [1]reported Diabetes in 15% and 13.75% of their study population respectively.

Sushma Tiwari et al [11]reported musculoskeletal problems to be 53.15%,respiratory as 10.98%. Khadervalli et al[2] found musculoskeletal problems as 64%. These are different from the present study which reported musculoskeletal problems as 83.9% and cardio respiratory as 28.6 %.

Digestive problems were present in 55.4% of the elderly in the present study, the most common one being constipation.

Khadervalli et al [2] reported digestive problems among 46% of the elderly. The present study differed from the one conducted by Niranjan GV and Vasundhra MK[10] in which only 4.2% had GI morbidity and Kapil U et al[12] who showed only 22.09%.

In a health study of tribal old in North India by Goyal et al[13] dental problems were reported in 12.50% of the elderly.In the present study dental problems were found in 72.7% of the respondents.

Kapil U et al[12] reported of 12.6% of the elderly suffering from accidental injuries. The present study

reported a higher percentage of 33% having accidental injuries including minor ones.

CONCLUSION

Morbidity increases with age and with associated social factors. There is a growing need of interventions to ensure the health of this vulnerable geriatric population and to create a policy to meet the care and needs of the disabled elderly.

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