Vol III Issue IX March 2014

Impact Factor : 2.2052(UIF)

ISSN No :2231-5063

International Multidisciplinary Research Journal





Chief Editor Dr.Tukaram Narayan Shinde

Publisher Mrs.Laxmi Ashok Yakkaldevi Associate Editor Dr.Rajani Dalvi



IMPACT FACTOR : 2.2052(UIF)

Welcome to GRT

RNI MAHMUL/2011/38595

ISSN No.2231-5063

Golden Research Thoughts Journal is a multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial board.Readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

International Advisory Board

11	iternational Advisory bourd	
Flávio de São Pedro Filho Federal University of Rondonia, Brazil	Mohammad Hailat Dept. of Mathematical Sciences, University of South Carolina Aiken	Hasan Baktir English Language and Literature Department, Kayseri
Kamani Perera Regional Center For Strategic Studies, Sr Lanka	i Abdullah Sabbagh Engineering Studies, Sydney	Ghayoor Abbas Chotana Dept of Chemistry, Lahore University of Management Sciences[PK]
Janaki Sinnasamy	Catalina Neculai	
Librarian, University of Malaya	University of Coventry, UK	Anna Maria Constantinovici AL. I. Cuza University, Romania
Romona Mihaila	Ecaterina Patrascu	
Spiru Haret University, Romania	Spiru Haret University, Bucharest	Horia Patrascu Spiru Haret University,
Delia Serbescu	Loredana Bosca	Bucharest,Romania
Spiru Haret University, Bucharest,	Spiru Haret University, Romania	II' D'
Romania	Debeisie Manage de Alusside	Ilie Pintea,
A muno a Miano	Fabricio Moraes de Almeida Federal University of Rondonia, Brazil	Spiru Haret University, Romania
Anurag Misra DBS College, Kanpur	Federal University of Kondolna, Brazil	Xiaohua Yang
DBS Conege, Kanpur	George - Calin SERITAN	PhD, USA
Titus PopPhD, Partium Christian	Faculty of Philosophy and Socio-Political	,
University, Oradea, Romania	Sciences Al. I. Cuza University, Iasi	More
	Editorial Board	
Pratap Vyamktrao Naikwade	Iresh Swami	Rajendra Shendge
ASP College Devrukh,Ratnagiri,MS India		Director, B.C.U.D. Solapur University, Solapur
R. R. Patil	N.S. Dhaygude	
Head Geology Department Solapur	Ex. Prin. Dayanand College, Solapur	R. R. Yalikar
University, Solapur		Director Managment Institute, Solapur
	Narendra Kadu	
Rama Bhosale	Jt. Director Higher Education, Pune	Umesh Rajderkar
Prin. and Jt. Director Higher Education,	V. M. Dhandarkan	Head Humanities & Social Science
Panvel	K. M. Bhandarkar Praful Patel College of Education, Gondia	YCMOU,Nashik
Salve R. N.	r ratur r ater College of Education, Golidia	S. R. Pandya
Department of Sociology, Shivaji	Sonal Singh	Head Education Dept. Mumbai University,
University,Kolhapur	Vikram University, Ujjain	Mumbai
••• 1	<i>u × 3</i> 3	
Govind P. Shinde	G. P. Patankar	Alka Darshan Shrivastava

S. D. M. Degree College, Honavar, Karnataka Shaskiya Snatkottar Mahavidyalaya, Dhar

Maj. S. Bakhtiar ChoudharyRDirector,Hyderabad AP India.D

S.Parvathi Devi

Rahul Shriram Sudke Devi Ahilya Vishwavidyalaya, Indore

S.KANNAN

Ph.D.-University of Allahabad

Awadhesh Kumar Shirotriya Secretary,Play India Play,Meerut(U.P.)

Arts, Science & Commerce College,

Bharati Vidyapeeth School of Distance

Education Center, Navi Mumbai

Chakane Sanjay Dnyaneshwar

Indapur, Pune

Sonal Singh, Vikram University, Ujjain Annamalai University, TN

Satish Kumar Kalhotra Maulana Azad National Urdu University

Address:-Ashok Yakkaldevi 258/34, Raviwar Peth, Solapur - 413 005 Maharashtra, India Cell : 9595 359 435, Ph No: 02172372010 Email: ayisrj@yahoo.in Website: www.aygrt.isrj.net Golden Research Thoughts ISSN 2231-5063 Impact Factor : 2.2052(UIF) Volume-3 | Issue-9 | March-2014 Available online at www.aygrt.isrj.net



1

GRT ASSESSMENT OF KNOWLEDGE, ATTITUDE AND PRACTICES IN THE MANAGEMENT OF DIABETES MELLITUS AMONG ELDERLY PEOPLE

Roopa, K. S. and Rama Devi, G.

Department of Human Development and Research Centre, Smt.V.H.D. Central Institute of Home Science, Bangalore University, Bangalore, Karnataka,

Abstract:-As a person gets older he/she is prone to many diseases. Among them diabetes mellitus is most prevalent. Diabetes is the major threat to the growing elderly population, the existence of this condition markedly increases multi-systemic complications. Hence the study on knowledge, attitude and practices (KAP) in the management of diabetes among elderly people was envisioned.

The study was conducted with an objective to study the KAP in the management of diabetes among elderly people. A total sample of 1200, constituting of 600 men and 600 women, between the age group of 65-76 years were randomly selected from 30 areas of urban Bangalore. A Structured Interview Schedule (SIS) developed by the investigators to study the KAP in the management of diabetes among elderly. The obtained data was tabulated and subjected to statistical analysis by applying percentage analysis, chi-square and 't' test. The results showed moderate knowledge, fair attitude and not so good practice in the management of diabetes among the respondents.

Keywords: Diabetics, Assessment, Elderly, Management.

INTRODUCTION:

Diabetes in the elderly will be the epidemic in this Century. Current data suggests that about 20 percent of people over the age of 65 will develop diabetes at some point in their life. At least half of them are unaware that they have the disease yet they are still susceptible to the complications of the illness. Recently, the diagnostic criteria for diabetes have been changed which means that they are going to detect even more cases of diabetes in older individuals. It is now recommended that every person over the age 45 should have a fasting blood sugar test once every three years to screen for diabetes. A fasting blood sugar test should be performed yearly in people who are at high risk which includes people with hypertension, obesity, high cholesterol, a history of gestational diabetes, or a strong family history of diabetes.

Old age people suffering from diabetes are also likely to be effective with blurred vision, unexplained weight loss, slow healing of wounds, frequent urination and accompanied by thirst. These problems need to be tackled at the earliest. Diabetes in elderly people can be really tough to deal with. It is indeed an added burden in old age. Old people in fact are more prone to suffer from diabetes primarily because of lack of movement and work. Sometimes it becomes difficult to identify the symptoms of diabetes in the old and this makes the treatment even more difficult. Elderly need extra care in diabetes since they run the risk of developing non ketotic hyperosmolar coma sometimes even leading to death. Yet another difficulty is reduction in weight of the elderly, since they cannot be made to undergo hard strenuous exercises so the best way is to go for a walk for 20 minutes every day and keep the diet under check.

The old age people are more prone to developing various complications like neuropathy, nephropathy, vascular diseases and hypertension so greater precautions are needed with regard to the kind of medicines they are made to live on.

According to Franjic, B and Marwick, T. H (2009) the prevalence of diabetes is escalating, and is leading to increased rates of heart failure, myocardial infarction and cardiovascular death. Due to several inter-related biological processes, hypertension is often associated with diabetes, and accelerates these morbid conditions.

Older people clearly are at increased risk of failing to receive proper counseling, diet, and for some, potentially lifesaving medication. Personal preferences regarding interest in complying with guidelines and recommendations may play a role although many elderly have coexisting illnesses that may interfere with their care and also place them at greater risk of unwanted side effects.

Roopa, K. S. and Rama Devi, G., "ASSESSMENT OF KNOWLEDGE, ATTITUDE AND PRACTICES IN THE MANAGEMENT OF DIABETES MELLITUS AMONG ELDERLY PEOPLE", Golden Research Thoughts | Volume 3 | Issue 9 | March 2014 | Online & Print

The research project was taken up to assess the Knowledge, Attitude and Practices in the management if diabetes in elderly people.

OBJECTIVE

1. To study the existing Knowledge, Attitude and Practices (KAP) in the management of diabetes among elderly people. 2. To assess and compare the KAP in the management of diabetes among elderly men and women. 3. To assess and compare the KAP in the management of diabetes among elderly between the age group of 65-70 years and 71-76 years.

HYPOTHESIS

1. There will be significant differences in the knowledge, attitude and practices in the management of diabetes among elderly men and women.

2. There will be significant differences in the KAP in the management of diabetes among the two age groups of elderly, namely65-70 years and 71-76 years.

Sample

The total sample constituted 1200 elderly men and women diabetics in the two age groups namely 65-70 years and 71-76 years thus constituting 300 in each cell with 600 each of men and women and 600 each from two age groups.

Tool

Structured Interview Schedule (SIS) developed by the investigators, on demographic profile and knowledge, attitude and practices (KAP) with regard to diabetes.

Procedure of study

The study involves co-operative action research aimed at a survey or an exploration of knowledge, attitude and practices in the management of diabetes among elderly diabetic people.

As the study focuses on the old age people with diabetes the cross section of the society elderly diabetics belonging to the two age groups namely 65 to 70 years and 71-76 years residents of Urban Bangalore were identified. Purposive random sampling was adopted for the study. The investigators visited various mahila mandals, senior citizen sanghas, senior citizens clubs and parks to collect the sample from 30 randomly selected areas of urban Bangalore. The presence or absence of these conditions in them was verified.

Once the respondents were identified, they were contacted, rapport was established and the time was fixed as per their convenience to collect the data. This process was continued till the data was collected from the required sample of 1200. A person to person approach was used during this phase of the study. The SIS on KAP in management of diabetes was administered to the respondents. Both the English and Kannada versions of the SIS were used for data collection according to the requirement.

RESULTS AND DISCUSSION

Educational level of respondents

The respondents were further divided into sub groups based on their educational level. There were five levels of respondents namely, illiterates, those with education below S.S.L.C., Matriculates, Degree/Diploma holders and Professional degree holders. Their numbers and the percentage of the sample are as given in table -1. A chi – square analysis of sample size at different educational levels was made to see the statistical significance of the association between educational level and gender / age in the sample distribution.

2

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

Age	Catagoria	N	Ien	Women		Con	bined	χ2 Value	
Group (years)	Category	N	%	Ν	%	Ν	%		
	Illiterate	97	32.3	162	54.0	259	43.2		
	Below SSLC	50	16.7	35	11.7	85	14.2		
65-70	SSLC	54	18.0	61	20.3	115	19.0	43.14*	
	Degree/Diploma	81	27.0	37	12.3	118	19.8		
	Professional	18	6.0	5	1.7	23	3.8		
Total		300	100.0	300	100.0	600	100.0		
	Illiterate	41	13.7	83	27.7	124	20.7		
	Below SSLC	60	20.0	69	23.0	129	21.5		
71-76	SSLC	64	21.3	78	26.0	142	23.7	39.13*	
	Degree/Diploma	110	36.7	63	21.0	173	28.8		
	Professional	25	8.3	7	2.3	32	5.3		
Total		300	100.0	300	100.0	600	100.0	71.34*	

Assessment Of Knowledge, Attitude And Practices In The Management Of Diabetes Mellitus Among Elderly People

Table- 1: Educational Level of Men and Women Respondents in the two age groups

*Significant at 5% level,

Significant differences were noticed in the distribution of sample at both the age groups with regard to the level of education among men and women. Illiterates were lesser in number among both men and women in the older age group as compared to the younger among the aged. There was not much of a difference in the number of respondents between matriculates and non- matriculates in the two age groups of men and women except that the number of non- matriculate women was considerably less in the younger age group. Professionals were less in all the four groups especially among women. Degree/diploma holders were relatively more among men in the older group. There appears to be an association between gender and educational level of the sample. There were more illiterates and lesser number of graduates and professional degree holders among women as compared to men.

The chi-square value between the two age groups was 71.34 and was statistically significant beyond 5 per cent level. This indicated an association between age and the educational level. There were more illiterates in the younger group, but there were more graduates and professional degree holders in the older group of aged. Women in the older group were better educated than women in the younger group.

Selfincome

Generally economic independence is treated as a determinant of many outcomes. Hence, the sample distribution was also tested on self income. The presence of self income as reported by the respondents was considered to divide the sample in to two groups. These two groups were compared within the four sub groups of the study.

The number of respondents in the four subgroups in each category is given in table-2a. A chi – square analysis of

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

sample size with or without self income was made to see the statistical significance of differences in the sample distribution and its association with age and sex.

Age	Self	Men		W	omen	Con	nbined	w? Voluo	
Group (years)	Income	Ν	%	Ν	%	Ν	%	χ2 Value	
65-70	Yes	156	52.0	40	13.3	196	32.7	101.96*	
03-70	No	144	48.0	260	86.7	404	67.3	101.90	
Total		300	100.0	300	100.0	600	100.0		
71.76	Yes	182	60.7	117	39.0	299	49.8	20.17*	
71-76	No	118	39.3	183	61.0	301	50.2	28.17*	
Total		300	100.0	300	100.0	600	100.0	21.43*	

Table -2a: Number of respondents in the four sub groups based on their self income

*Significant at 5% level,

As indicated by the significant chi-square values given in table -2a, there exists an association between sex of the respondent and self income. Significantly more number of men than women has reported self income in both the age groups. The chi- square between the two age groups is 21.43 and is significant beyond 5 per cent level. Older men and women than younger men and women have reported self income more often. Thus significantly more number of men and those in the older age group has reported self income.

Family income

Health care and management of disease is to a great extent influenced by the income of the family. Hence along with self income, income of the family was also taken as a demographic variable and the distribution of the sample in the four groups was verified for the presence of bias on this dimension. The income of the respondents varies from below Rs.5000 per month to Rs. 20,000 per month. The range was brought under five categories as given in table-2b.

Table - 2b: Income distribution of men and won	men respondents in the four sub groups
--	--

Age		N	/I en	W	omen	Con	ıbined	χ2
Group (years)	Income (Rs)	Ν	%	Ν	%	Ν	%	Value
	<5000	35	11.7	6	2.0	41	6.8	
	5001-10000	48	16.0	10	3.3	58	9.7	
65-70	10001-15000	41	13.7	13	4.3	54	9.0	103.49*
	15001-20000	32	10.6	11	3.7	43	7.2	
	No	144	48.0	260	86.7	404	67.3	
Total		300	100.0	300	100.0	600	100.0	
	<5000	46	15.3	18	6.0	64	10.7	
	5001-10000	59	19.7	29	9.7	88	14.7	
71-76	10001-15000	48	16.0	44	14.7	92	15.3	36.85*
	15001-20000	29	9.7	26	8.6	55	9.2	50.85
	No	118	39.3	183	61.0	301	50.1	
								Deterren

Total 300 100.0 300 100.0 600 100.0	two age groups 35.6*	
---	----------------------------	--

4

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

*Significant at 5% level,

The chi-squares reported in table-2b were found to be significant beyond 5 per cent level of statistical significance and indicate an association between income and sex / age.

The income of women in the younger age group is significantly lesser than that of men. This is true in the older age group as well except that the number of men and women reporting a family income of Rs. 10,000 and above do not vary much. An association between age and income is indicated by the significant chi-square between the two age groups. As compared to the younger group, there was more number of older respondents at all levels except in the 'no income' group where the number of younger group is more. In general, the income of the older group and of men is significantly more than that of younger group and of women.

Prevailing Knowledge, Attitude and Practices (KAP) in the Management of Diabetes

Diabetes

Information about the prevailing KAP regarding the management of diabetes was obtained through the Structured Interview Schedule developed by the investigators. Knowledge items included statements on the nature, causes, symptoms, consequences, control and dietary requirements of diabetes. Attitude items contained statements indicating the attitude towards the disease, its effects and practices. Practice items were basically on how people came to know of the disease, the exercises they do, the diet they follow or the regularity of the medical tests they undergo. The responses provided by the respondents yield a score each on K, A, and P. Higher the score better was the knowledge. A higher score on attitude segment indicated a more healthy and positive attitude towards the disease. Similarly, a higher score indicated healthy and useful practices in the management of diabetes. Since the number of items and scores varied in the three segments, the scores obtained by a respondent in each segment were converted into a percent score in view of a common base for comparison.

The mean and standard deviation of each segment for different groups were calculated. The scores thus obtained on diabetes for the four sub groups and the calculated values of 't' are given in table-3.

Table –3: Mean score and standard deviation on KAP regarding diabetes and the 't' ratios for a	
comparison of four sub groups	

	Age		Know	ledge	Atti	tude	Practi	ce										
Group Men 't' Va Women 't' Value Men Women	(years)	N	Mean	SD	Mean	SD	Mean	SD										
M	65-70	300	54.9	28.2	60.7	26.2	34.1	16.7										
Men	71-76	300	61.7	24.3	67.2	22.3	37.7	15.0										
ʻt' Va	lue		3.16*		3.16*		3.16*		3.16*		3.16*		3.27*		3.27*		2.78*	
	65-70	300	73.2	26.1	74.8	25.6	31.2	11.7										
Women	71-76	300	52.4	29.8	56.5	30.3	31.7	18.3										
't' Value			9.09*		9.09*		9.09*		9.09*		9.09*		7.99*		0.40 NS			
Men		600	58.3	26.5	63.9	24.5	35.9	16.0										
Women		600	62.8	29.8	65.6	29.5	31.5	15.3										
't' Value			2.7	6*	1.09	1.09 NS		4.87*										
65-70 years	65-70 years		64.1	28.6	67.7	26.8	32.7	14.5										
71.70		(00	57 1	27.6	(1.9	27.1	247	17.0										

71-76 years	600	57.1	27.6	61.8	27.1	34.7	17.0
't' Value		4.3	1*	3.7	79*	2.19*	¢

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

*Significant at 5% Level, NS: Non-Significant

KNOWLEDGE ABOUT DIABETES:

The scores on the knowledge segment of diabetes indicate that the mean scores vary in the sub groups from 73.2 to 52.4 for knowledge items. It indicates moderate to good knowledge among the respondents. The SD of scores varies from 29.8 to 24.3. The standard deviation of scores indicates a wide range of individual differences in the group. The normal range of score for men in the age group 65-70 for example, was found to be 54.9 ± 28.2 , that is, from 83.1 to 26.7.

Older men and younger women scored significantly more on the knowledge items than the other groups, that is, younger men and older women among the aged. In general, women scored significantly more than men and younger group more than the older group of aged. The findings of the present study supports the study by Moodley, L., et.al., (2007), where the findings revealed higher knowledge score in the management of diabetes mellitus in the female group than in the male group of adults.

The fact that women are becoming more health conscious is indicated in the higher scores of the younger group of women in the knowledge segment. It is also justified since women play the role of care givers in the family. For older men gaining knowledge about diabetes may be more a necessity.

When an analysis of the nature of responses to different items was made, it was noticed that elderly men and women knew only some of the causes leading to diabetes. Majority knew that inheritance was the cause but had poor knowledge about obesity, stress, physical inactivity and smoking as the causes leading to diabetes. Common symptoms they knew were frequent urination and thirst. Many symptoms like loss of appetite, fatigue, weight loss were mistaken as the signs of ageing. Many elderly reported that they did not know that they had diabetes till they noticed a delay in wound healing; then they went for medical check up and were diagnosed as diabetic. Many elderly had poor knowledge related to complications of diabetes like kidney diseases, stroke, foot diseases and deformities. Many responded that the best method to monitor diabetes is to stop eating sweets and to take medicine regularly but did not mention about taking smaller meals at frequent intervals. Women had less knowledge with regard to life style modifications and the importance of regular exercise compared to men. They had the limited knowledge with regard to foods recommended for diabetes and diabetic meal.

It was noticed in case of men respondents that they knew the risk factors and symptoms of diabetes. Majority of the respondents were not aware of complications of diabetes. Majority of men and women respondents had the attitude that diabetes hampers the social life of a person and they cannot have normal life style.

Attitude towards diabetes:

With regard to attitude towards diabetes, the mean scores of the four sub groups vary from 74.8 to 60.7. The mean scores indicated that the attitude of the groups toward diabetes was fair and healthy. The SD of scores varied from 30.3 to 22.3 and indicated a wide range of individual differences in the groups. Individual differences were found to be more among women in general and among older women in particular. The individual differences were relatively lesser among older men.

Again a more favourable or healthy attitude was shown by older men and younger women among the aged. Here also women and the younger group scored higher than men and the older group. However, the difference in the mean scores of men and women was not statistically significant.

Even as the respondents showed a healthy attitude, many elderly agreed that diabetes is a disease and a person feels very low after knowing that he/she is a diabetic. Many of them disagreed with the statement that diabetics should control eating high calorie foods. Majority of men and women respondents had an attitude that diabetes hampers the social life of a person and one cannot have a normal life style.

Wide individual differences in the attitude towards diabetes may be due to variations in the stage or duration of the disease, financial conditions, and facilities for diet control, exercises etc.

Practices followed to manage diabetes:

The mean scores on practice items vary from 31.7 to 37.7. The mean scores suggest a below average, not so good or poor performance of the group. The SD of scores varies from 11.7 to 18.3. Older group of women differ widely in their practices and these differences were minimum in the younger group of women.

The mean scores on 'practice' differ significantly between the two age groups of men with a higher score noticed in the older group. The two age groups of women showed no significant variations in their scores. Men and women as well as the two age groups in general showed significant differences in their mean scores. Unlike the knowledge and attitude scores, here men and the older group showed significantly healthier practices compared to women and the younger group among the aged.

Right knowledge and a healthy attitude may not transform into actual practice as noticed in this study. A strong motivation emerging from the compulsion of the circumstances and acceptance of the disease, as in the case of men and older

group, is necessary to follow healthy habits. Knowing that they were diabetic many elderly men developed the practice of going for a walk or doing yoga as compared to women. Few women practiced doing laughter yoga.

Elderly responded that they sometimes eat sweets after taking medicine. Many of them began to use ragi instead of

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

rice and some of them responded that sometimes they used sugar substitutes in daily diet.

People with diabetes often feel challenged by their disease and its day-to-day management demands. And these demands are substantial. They must deal with their diabetes all day, every day, making countless decisions in an often futile effort to approximate the non-diabetic metabolic state. Diabetes therapy, such as taking insulin, can substantially affect quality of life either positively, by reducing symptoms of high blood sugar, for instance, or negatively, by increasing symptoms of low blood sugar, for example. The psychosocial toll of living with diabetes is often a heavy one, and this toll can often, in turn, affect self-care behavior and, ultimately, long-term glycemic control, the risk of developing long-term complications and quality of life.

There is now good evidence that psychosocial issues are critical to good diabetes care. Psychosocial factors often determine self-management behaviors, and psychosocial variables (such as depression) are often stronger predictors of medical outcomes such as hospitalization and mortality than are physiologic and metabolic measures.

Reason for Blood Sugar Test for Diabetes

For a question on 'When did you get your blood sugar level tested to know if you are a diabetic?' the frequency of choice of different alternatives given by the four sub groups are as indicated in table-4.

Table- 4 indicates the frequency of alternative responses selected by the respondents. Accordingly, the order of the reasons given for blood test for diabetes was:

As a regular health check up. Delayed healing of a wound, Sudden weight loss, Feeling very thirsty and Recent positive high blood sugar of a sibling.

As indicated by the chi-squares, the association between sex of the respondent and age in choosing a given reason was significant for ' a regular health check up', 'sudden weight loss' and 'frequent urination'. In the case of older men and women, they endorsed the reason 'regular health check ups', more often than younger men and women. In case of the remaining two reasons, younger men and older women endorsed these reasons more often than the other groups. The remaining reasons offered as alternatives showed no association with either sex or age of the respondents.

Table - 4. Frequency of the choice of alternatives for the blood sugar test for diabetes in the four sub groups and the
chi-square values

		Μ	en						
Aspects	65-70		71	71-76		65-70		-76	χ2 Value
	Ν	%	Ν	%	Ν	%	Ν	%	
As a Regular health check up	201	67.0	215	71.7	112	37.3	170	56.7	5.03*
Parents were Diabetic	48	16.0	45	15.0	43	14.3	45	15.0	0.14 ^{NS}
Recent positive high blood of a Siblings	75	25.0	98	32.7	41	13.7	80	26.7	2.67 ^{NS}
Delayed healing of a wound	95	31.7	111	37.0	66	22.0	103	34.3	1.89 ^{NS}
Feeling very Thirsty	75	25.0	70	23.3	65	21.7	87	29.0	2.39 ^{NS}
Sudden weight loss	90	30.0	78	26.0	58	19.3	90	30.0	6.54*
Frequent urination	62	20.7	47	15.7	57	19.0	87	29.0	7.45*
Others	13	4.3	4	1.3	5	1.7	7	2.3	3.62 ^{NS}

*Significant at 5% level,

NS: Non-Significant

One of the reasons that diabetes is under diagnosed in older people is that the classic symptoms of diabetes do not often present themselves in the elderly. In general, older people with diabetes are asymptomatic. If they have symptoms, they tend to be non specific such as fatigue, weakness, impaired concentration, etc. A blood sugar test should be part of the investigation of any older person who has no specific symptoms. Diabetes is clearly a genetic disease but it is also clear that

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

lifestyle factors make it more or less likely that an older person with a genetic predisposition will develop diabetes.

Source of information

The variations in the frequency of the source of information that helped the patients to know about diabetes among the four groups of respondents was also analyzed for its statistical significance using chi-square as reported in table -5.

The significant chi- square values suggest an association between the source of information and age. All the four sub groups reported more often doctors as the source that provided information about the illness. But the older group of men and women depended more on doctors to a significantly greater extent. Among men, the older group as compared to the younger group also depended more on friends, magazines, family members and news papers. The younger group reported books and relatives as a source of information to a significantly greater extent as compared to older men.

Among women, the older women reported to a significantly greater extent all sources of information except news papers as compared to the younger group. Thus there appears to be a significant association between the age of the respondents and frequency of sources selected to obtain information.

				Age Grou	ıps (in Yea	urs)			
Source of Information		Μ	en		Women				
source of information	65	-70	71-	-76	65-	70	71-76		
	Ν	%	Ν	%	Ν	%	Ν	%	
Doctor	215	71.7	221	73.7	133	44.3	185	61.7	
Books	101	33.7	85	28.3	64	21.3	77	25.7	
Friends	84	28.0	99	33.0	70	23.3	84	28.0	
Magazines	94	31.3	103	34.3	56	18.7	75	25.0	
Relatives	86	28.7	78	26.0	72	24.0	75	25.0	
Family members	82	27.3	133	44.3	62	20.7	116	38.7	
News papers	54	18.0	84	28.0	40	13.3	36	12.0	
Others	16	5.3	17	5.7	0	0.0	16	5.3	
χ2 Value		17.2 Betwee			22.84* and women = 10.59 NS				

Table -5: Frequency of the source of information about diabetes and hypertension reported by the four sub groups of respondents and the chi-square values

*Significant at 5% level

Women in general have reported these sources less frequently as compared to men. But only in the case of doctors and news papers the frequency of men reporting these sources is more. However, an association between sex of the respondents and source of information was not noticed because of the non significant chi-square value between men and women.

CONCLUSION

The men scores on the knowledge segment of diabetes indicated that the mean scores suggest a moderate to good knowledge among the respondents. The mean scores indicated that the attitude of the groups toward diabetes was fair and healthy. The mean scores on practice suggest a below average, not so good or poor performance of the group. Individual

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

differences were wide on all the segments especially among older women.

UGC Funded Major Research Project

REFERENCES

1.Badrudin N., Basit A., Hakeem R. (2002). Knowledge, Attitude and Practices of patients visiting a diabetes care unit, Pak J Nutrition (1), pp: 100.

2.Bougneres P. (2002). Genetics of obesity and type 2 diabetes: tracking pathogenic traits during the predisease period Diabetes, Vol-51(3), pp: S295-S303.

3.Brent M.E., Lackland D.T. (2003), Awareness, Knowledge and Attitudes of Older Americans Among High Blood Pressure, Arch Interm Med, Vol-163, pp: 681–687.

4.Franjic,B and Marwick,T.H. (2009). The diabetic, hypertensive heart: epidemiology and mechanisims of a very high-risk situation. Journal of human hypertension, Vol-23, pp;709-774.

5. Graydon, S.M and Daniel, T. (2000). Diabetes in Elderly Adults, Biomedical Gerontology Oxford Journals.

6. Irudaya Rajan, S. (2007). Ageing the Indian scenario. Indian Journal of medical research, Vol-125, 217-223.

7. Michell Gulabani., Mary John., and Rajesh Isaac (2008), Knowledge of diabetes, its treatment and complications amongst diabetic patients in a tertiary care hospital, Indian Journal of Community Medicine, Vol-33, Issue-3, pp: 204–206.

8.Mohan.V., sandeep,S.R., shah,B. and Varghese.V.(2007). Epidemiology of type 2 diabetes :Indian scenario. Article of madras diabetic research foundation.

9.Moodley, L., (2007). An assessment of the level of Knowledge about Diabetes Mellitus among diabetic adults in a primary healthcare setting, Vol-49(10), pp:16.

10.Narayan, K.M., Boyle, J.P., and Thompson, J. (2003). Lifetime risk for diabetes mellitus in the United States, The Journal of American Medical Association, Vol-290, pp:1884–1890.

11.Singh, A, K., Kalaivani, M., Anand, K., and Praveen, A., (2013). Prevalence, Awareness, Treatment and control of Diabetes among elderly Persons in an Urban Slum of Delhi, Indian journal of community Medicines, Vol--37, Issues-4 (October), India, pp-236-239.

12.Sprafka, J.M., Bender A.P., Jagger ,H.G.(1988). Prevalence of Hypertension and associated risk factors among diabetic individuals. The Three-city Study, American diabetes association, Vol- 1,P: 17-22.

13.Suresh, S., Deepa, R., Pradeepa, R., Rema, M., and Mohan, V. (2005). Largescale diabetes awareness and prevention in South India. Diabetes Voice Vol-50, pp : 11-4.

14.Upadhyay D.K., Subhish Palaian., and Shankar P.R. (2008). Knowledge, Attitude and Practices about Diabetes among Diabetic Patients in Western Nepal, Rawal Med, Vol-33, pp: 8-11.

15.Viral N.S., Kamdar P.K., and Shah. (2009). Assessing the Knowledge, Attitude and Practice of type-2 diabetes among patients of Saurashtra region, Gujarat, International Journal of Diabetes in developing countries, Vol-29, Issue 3, pp – 118-122. 16.Wild, S., Roglic, G., Green, A., Sicree, R., and King, H. (2004). Global Prevalence of Diabetes, Diabetes Care, Vol-27, No-5, America, pp: 1047-1053.

17.Williams, M. V., Baker, D.W., and Parker, R.M. (1998). Relationship of Functional Health Literacy to patients' knowledge of Their Chronic Disease – A Study of Patients with Hypertension and Diabetes, Arch Interm Med Vol--158, pp-166-172.

18.Yki-Jarvinen, H. (2002). Combination therapy with insulin and oral agents: optimizing glycemic control in patients with type 2 diabetes mellitus. Diabetes Metab Res Rev, Vol-18, Suppl:3, pp:S77-S81.

9

Golden Research Thoughts | Volume 3 | Issue 9 | March 2014

Publish Research Article International Level Multidisciplinary Research Journal For All Subjects

Dear Sir/Mam,

We invite unpublished Research Paper,Summary of Research Project,Theses,Books and Book Review for publication,you will be pleased to know that our journals are

Associated and Indexed, India

- International Scientific Journal Consortium
- * OPEN J-GATE

Associated and Indexed, USA

- EBSCO
- Index Copernicus
- Publication Index
- Academic Journal Database
- Contemporary Research Index
- Academic Paper Databse
- Digital Journals Database
- Current Index to Scholarly Journals
- Elite Scientific Journal Archive
- Directory Of Academic Resources
- Scholar Journal Index
- Recent Science Index
- Scientific Resources Database
- Directory Of Research Journal Indexing

Golden Research Thoughts

258/34 Raviwar Peth Solapur-413005,Maharashtra Contact-9595359435 E-Mail-ayisrj@yahoo.in/ayisrj2011@gmail.com Website : www.aygrt.isrj.net