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A STUDY TO ASSESS THE AWARENESS REGARDING EARLY SIGNS OF HEART AND ITS MANAGEMENT AMONG THE EXECUTIVES WORKING IN SELECTED OFFICES OF PUNE CITY

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Research Article

A STUDY TO ASSESS THE AWARENESS REGARDING EARLY SIGNS OF HEART AND ITS MANAGEMENT AMONG THE EXECUTIVES WORKING IN SELECTED OFFICES OF PUNE CITY

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ABSTRACT

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Key Words:

Awareness, Knowledge, Early Signs, Management, Executives, Heart Attack, Coronary Artery, Ischemia

Background: Over the past two centuries, due to the industrial and technological revolutions associated with economic and social transformations it has resulted in drastic change in the non communicable diseases responsible for illness and death. Cardiovascular disease is one of the leading causes of death worldwide. Lifestyle changes like physical inactivity, altered dietary habits (eg. junk foods rich in cholesterol) etc can cause heart attack. Aim: To assess the awareness regarding early signs of heart attack and its management among Executives Methods: A descriptive Survey method was used for this study. Research design was non experimental survey method. Sample size was 100 employees from the selected offices in the post of Executives. Five offices were selected by random sampling technique and employees were selected by purposive sampling technique. Content validity was obtained by Expert with field of Medical and Surgical Nursing opinion. Data collection was carried out from 22/2/16 to 18/03/16. Tool reliability was calculated by Split half method and Correlation coefficient was calculated, Chronbach's alpha was 0.83. Data was collected by administering self structured knowledge questionnaire. After assessing the responses to questions, wherever the knowledge gap was identified the respondents were given incidental Health information. Data was compiled and Analysis was done by using inferential statistics Result: The data analysis revealed that awareness regarding early signs of heart attack and it management was good among only 19% of the respondent were good, 34% of respondent were average, while 47% of the respondent were poor in knowledge and knowledge of practices. Conclusion: Finding of the study revealed that there is lack of knowledge and knowledge of practice regarding early signs of heart attack and its management among the executives. Hence the knowledge needs to be imparted to the Executives class of people keeping in view their sedentary style of working and daily life style, predisposing them to health risk.

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INTRODUCTION

Heart disease has become a leading cause of death to mankind. Cardiac problems are increasing day by day due to lifestyle changes. Coronary artery disease is no longer be perceived as the disease of the elite and elderly (Harvey M 1970). Leading cause of morbidity and mortality is cardio vascular disease. In industrialized countries, they are also emerging as prominent national health problem in developing countries, where communicable diseases are being brought under control. Among them coronary artery disease has become the most important cause of premature death and disability in the population (Ahmad N 2005).

Heart is a muscle that pumps blood around body. It can beat about 100000 times a day that's about 3 billion heart beats during an average lifetime. Heart responsible for circulating blood throughout the body. Myocardium is the heart muscle that contracts to pumps that blood and like any other muscle, it requires oxygen rich blood for energy (Paul A. Laizzo, 2009). Atherosclerosis occurs due to narrowing of the arteries caused by a buildup of plaque. Arteriosclerosis occurs due to hardening of the arteries, Arteries are the blood vessels that carry oxygen and nutrients from the heart to rest of the body. Fat and cholesterol collect in the arteries and form plaque. The buildup of plaque makes it difficult for blood to flow through the arteries. The deposition of the lumen of the artery leads to narrowing of the artery means the diameter of the lumen is decreased.

Due to the plaque formation oxygen rich blood flow in the artery gets limited. Over a time plaque gets hardened leads to narrowing of coronary arteries and reduces the flow of oxygen rich blood to the heart. And if flow of oxygen rich blood get reduce or diminished cause heart block, angina or heart attack

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can occur. Signs of angina are chest pain or discomfort; it may even feel pressure or squeezing in chest. The pain can radiates to shoulder, arms, neck, jaw or back (Mr A.V. Yadav).

WHO has predicted that by AD 2020, up to three quarters of ailments would result from non - communicable disease and that coronary heart disease will be the first. Coronary heart disease is considered an important public health problem not only in the developed countries, but also in developing countries like India (Yeolekor, WHOSIS). CAD has reached alarming proportions. In India the incidence of this disease ranges from 30 million heart patient, 14 million resides in urban areas and 16 million in rural areas if this will continue then by 2020 India will be leading capital for Cardio Vascular disease (WHO, 2015). The growth of the CVD is increasing drastically may be due to change in lifestyle, unhealthy eating habits and rapidly evolving socio economic, CVD is not only seen in urban population is also seen in rural population also. The prevalence of CHD in India has more than doubled in the past two decades. Prevalence in urban Indians is alarmingly increasing with increasing rates of urbanization in India. Major lifestyle changing patterns have occurred for a large proportion of individuals. This has led to a trend towards decreasing physical activity due to improved transportation and availability of energy saving devices, thus increasing weight and consequently increased rate of diabetes, hypertension and dyslipidemia in urban population (Yeolkor MG. 1998).

Coronary Artery Disease identified a number of lifestyles and environmental factors as the underlying causes of CHD. These risk factors may be modifiable and non modifiable. Age, sex, smoking history of high blood pressure, diabetes, elevated plasma cholesterol /triglycerides, obesity, sedentary lifestyle, personality type and psychological stress are considered some of the major risk factors for CAD. Heart disease have been a global burden of lifestyle disease we can see a dramatic rise in heart disease cases in India can been seen Dr Nikhil Kumar, Director, Cardiology, Fortis Memorial Research Institute says that it is estimated by year 2030 the death rate will be 35.9%. Heart disease is more prevalent in young generation due to owing poor lifestyle, stress, lack of exercise if this continues then this can lead to escalated changes in statistics of mortality and morbidity of young generation from age group of 25-35 (AHA).

Objectives

- To assess the knowledge regarding early signs and management of heart attack.
- To evaluate the knowledge of the practice regarding management of heart attack
- To find the association of awareness regarding heart attack with the demographic variables.
- To find the association of awareness regarding knowledge of practice regarding heart attack with the demographic variables.

MATERIALS AND METHODS

Research Approach

Research approach used in this study was descriptive survey approach

Research Design

Non experimental design (Descriptive survey design)

Setting of the Study

The present study was undertaken in different offices of Pune City.

Sample

Population for the present study was executives.

Sample Size

The total sample size of this study was 100.

Sampling Technique

Non probability purposive sampling technique was adopted.

Sampling Criteria

Inclusion criteria for sampling

- 1. Professional working as executives at the offices.
- 2. Professionals keen to become aware of the health organization.
- 3. Samples who are willing to participate in the study
- 4. Both female and male are included in the study.

Exclusion criteria for sampling

- 1. Executives already under treatment for cardiac ailments
- 2. Executives whose family members are suffering from cardiac health problem.
- 3. Subjects who are not willing to participate
- 4. Subjects who are absent on the particular day of data collection

Data Collection Tool

A self-structured questionnaire on knowledge and knowledge of practices was developed to assess the knowledge and knowledge of practices among the executives of offices of Pune. It were validated by experts and guide.

Description of the Tool

Section I: Demographic characteristics of participants

It mainly contained all the demographic aspects for executives covering important areas like level of education, mode of transportation, their health habits, life style practices and stress levels in the office.

Section II: Structured questionnaire to assess knowledge regarding heart attack.

- The questions covered knowledge in the area of:
 - 1. Meaning of heart attack
- 2. Risk factor
- 3. Cause
- Each questions had 3 options
- The samples had to answer these question.

Section III: Structured self structured questionnaire to assess knowledge regarding practice of heart attack

The investigator has prepared the tool where the section been divided into different aspect of practice, exercise, diet, lifestyle habits

Section IV: Structured self structured questionnaire to assess the knowledge regarding management of heart attack

The questionnaire regarding the knowledge of management of heart attack which includes the signs and symptoms been seen at patient who had got heart attack, first aid management and medicine that to be taken at the time of heart attack.

Content Validity

Content validity of the tool was established by 8 experts from various fields of expertise.

Reliability

The reliability of the tool was established by using Split half technique and Correlation Coefficient. The reliability of the nursing assessment tool was found to be 0.87. Hence, the tool was found to be highly reliable.

Pilot Study

Pilot study was conducted on 8 subjects.

RESULT

Table 1 Description of respondents based on theirpersonal characteristics in terms of frequency andpercentage N=100

Name of the work place Bank 20 20% Construction Company 20 20% Institution 20 20% IT 20 20% NGO 20 20% NGO 20 20% NGO 20 20% NGO 20 20% Age 21-35 years 39 39% 36-50 years 55 55% 51-65 years 6 6% Gender Male 52 52% 5 55% Single 41 41% 10% 14% 14% Divorce 2 2% Educational qualification 10 10 10% Diploma 8 8% 6 6 6 6 Managers 20 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	Demographic Variable	Frequency	Percentage			
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Obese class2 (35.0-39.9) 6 6%	Obese class2 (35.0-39.9)	6	6%			

Dietary habit		
Vegetarian	19	19%
Non vegetarian	76	76%
Eggetarian	5	5%
Mode of transportation to off	ice	
Car	59	59%
Scooter	33	33%
Cycle	1	1%
By Walking Public transport	1	1% 60/
Distance of work place from h	0 me	070
>15 km	10	10%
11-15 km	20	20%
6-10 km	56	56%
Upto 5 km	13	13%
Do you smoke		
Occasionally	14	14%
Habitual	8	8%
Non smoker	78	78%
If Yes, How many cigarettes do you s	moke /day	/ •
2	2	2%
3	2	2%
4	8	8%0 20/
5	5	50/2
No	80	80%
About how many years have you bee	n smoking	r 1
4	1	, 1%
5	3	3%
6	3	3%
7	2	2%
8	9	9%
11	1	1%
12	1	1%
Nil	80	80%
Do you drink alcohol	20	200/
Binge	20	20%
Non alcoholic	78	78%
About how many years have you bee	en alcohol	/0/0
4	2	2%
5	5	5%
6	5	5%
7	4	4%
8	4	4%
11	1	1%
12	1	1%
	2	2%
INII If Vos. How many units do you drin	/0 in a day	/070
1 unit	12	12%
2 units	13	13%
Nil	75	75%
How many hours do you sleep in	a day	
5	-	3%
6	3	
Ũ	3 18	18%
7	3 18 39	18% 39%
7 8	3 18 39 37	18% 39% 37%
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7 8 9 Are you drowsy or sleepy during you a Never Sometimes How often do you face stress situation in Never Sometimes Always How do you feel while working in the o	3 18 39 37 3 wake hou 31 69 n your offi 13 78 9 organizatio	18% 39% 37% 3% rs 31% 69% (ces 13% 78% 9%
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Table 1 depict that the majority of the samples were from age group of 21-35 years (39%),

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(52%) were male, married respondents were (57%), most of respondent were graduate with (58%), (23%) were administrative officers, more them half of them are pre obese with (58%), majority of them were non vegetarian (76%), (59%) use car as mode of transportation to office, (14%) of them are occasional smoker, (20%) of them are occasional drinker, (39%) of them sleep for 8 hours in a day, (69%) of respondents sometimes drowsy or sleepy during awake hours, most of the respondents face stress situation in office were (78%), (62%) of them are satisfied while working in the organization.

Section II: Analysis of Data Related To the Knowledge Regarding Early Signs and Management of Heart Attack





Fig 1 shows that 47% of the samples had 19% of them had good knowledge, 34% of them had average knowledge and 47% respondent had poor knowledge regarding early signs and management of heart attack.

Section III: Analysis of Data Related To The Knowledge of The Practice Regarding Early Signs And Management of Heart Attack.

 Table 2 Knowledge of the practice regarding early signs and management of heart attack N=100

Practices	Frequency	Percentage
Poor (Score 0-6)	27	27%
Average (Score 7-13)	55	55%
Good (Score 14-20)	18	18%

Table 1 depict that 18% of them had good knowledge of practices, 55% of them had average knowledge of practices and 27% of the samples had poor knowledge of practices, regarding early signs and management of heart attack.

Section IV: Analysis of Data Related To the Associate the Awareness Regarding Heart Attack with The Demographic Variables

Association of the awareness regarding heart attack with the demographic variables was assessed using Fisher's exact test. The summary of Fisher's exact test is tabulated below:

Table 2 Fisher's exact test for association of theknowledge regarding heart attack with the demographicvariables N= 100

Demographic variable		Average	Good	Poor	p-value
Demographic variable	Bank	5	2	13	
	Construction	7	4	0	
Name of work place	company	/	4	9	0.863
Name of work place	Institution	8	5	7	0.805
	IT	7	4	9	
	NGO	7	4	9	
	21-35 years	17	5	17	
Age	36-50 years	17	13	25	0.162
	51-65 years	0	1	5	
Gender	Male	18	10	24	1.000
	Female	10	9	23	
Marital status	Single	25	10	24	0.420
wiantai status	Divorce	0	9	21	0.439
	Divolee	3	1	4	
Educational qualification	Graduate	15	16	27	0.059
Educational quantication	Post graduate	16	2	16	0.057
	Director	3	1	2	0.285
	Managers	4	5	ũ	0.200
	Administrative		0		
Job Designation	officers	6	3	14	
voo Deelginution	Head of		_		
	department	4	5	8	
	Others specify	17	5	12	
	Normal range	-	-	2	
	(18.5-24.9)	5	1	3	
	Over weight (>		0	2	
	25.0)	4	0	2	
	Preobese (25.0-	7	2	~	
BMI	29.9)	/	3	5	0 2 4 2
	Obese (> 30.0)	1	1	4	0.343
	Obese class 1	2	0	2	
	(30.0-34.9)	3	0	3	
	Obese class2	14	14	30	
	(35.0-39.9)	17	14	50	
	Vegetarian	7	3	9	
Dietary habit	Non vegetarian	26	16	34	0.751
	Eggetarian	1	0	4	
	Car	17	12	30	
Mode of transportation to	Scooter	13	5	15	
office	Cycle	1	0	0	0.648
	By walking	1	0	0	
	Public transport	2	2	2	
	> 15 km	3	1	6	
Distance of work place	11-15 km	17	/	20	0.227
from nome	6-10 KM	1/	11	28	
	Opio 5 km	6	0	6	
Do you smoko	Uccasionally	2	2	4	0.047
Do you shloke	Non smoker	25	16	27	0.947
		10	3	7	
Do you drink alcohol	Binge	0	0	2	0 3 5 3
Do you urink alconor	Non alcoholic	24	16	38	0.333
Are you drowsy or	Never	0	7	15	
sleepy during you awake	INCVCI	9	/	15	0.686
hours	Sometimes	25	12	32	0.080
How often do you face	Never	4	Δ	5	
stress situation in your	Sometimes	28	14	36	0.670
offices	Always	2	1	6	0.070
How do you feel while	Great	9	8	14	
working in the	Satisfied	22	10	30	0.826
organization	Frustrated	3	1	3	

Since all the p-values are large (greater than 0.05), none of the demographic variable was found to have significant association with knowledge regarding heart attack.

 Table 3 Fisher's exact test for association of the knowledge of practices regarding heart attack with the demographic variables N=100

Demographic		Average	Good	Poor	n_value
variable		Average	000u	1 001	p-value
	Bank	11	3	6	
	Construction	8	4	8	
Name of work	company	0	-	0	0.127
place	Institution	11	4	5	0.127
	IT	17	3	0	
	NGO	8	4	8	
	21-35 years	21	9	9	0.50
Age	36-50 years	32	8	15	0.536
	51-65 years	2	1	3	
Gender	Famala	20	10	10	0.564
	Female	29	8	11	
Marital status	Single	24	9	10	0.542
Iviainai status	Divorce	24	0	1	0.542
	Diploma	3	2	3	
Educational	Graduate	33	7	18	0.230
qualification	Post graduate	19	ģ	6	0.250
	Director	2	í	3	
	Managers	12	4	4	
	Administrative	12			
Job Designation	officers	11	3	9	0.605
	Head of department	8	4	5	
	Others specify	22	6	6	
	Normal range (18.5-		2	2	
	24.9)	4	2	3	
	Over weight (> 25.0)	2	1	3	
	Preobese (25.0-29.9)	32	12	14	
BMI	Obese (> 30.0)	5	0	1	0.565
	Obese class 1 (30.0-	0	1	6	
	34.9)	8	1	0	
	Obese class2 (35.0-	4	2	0	
	39.9)	4	2	0	
	Vegetarian	11	3	5	
Dietary habit	Non vegetarian	41	15	20	0.940
	Eggetarian	3	0	2	
	Car	37	11	11	
Mode of	Scooter	15	4	14	
transportation to	Cycle	0	1	0	0.048
office	By walking	0	1	0	
	Public transport	3	l	2	
D:	> 15 km	4	0	6	
Distance of work	11-15 km	10	3	8	0.037
place from home	6-10 km	35	13	8	
	Opto 5 km	6	2	2	
Da ana ana la	Uccasionally	9	3	2	0.202
Do you smoke	Habilual Non smolver	20	15	24	0.303
		59 15	13	24	
Do you drink	Dingo	15	5	2	0.114
alcohol	Non alcoholic	30	14	25	0.114
Are you drowsy	Never	10	14	11	
or sleenv during	110701	1)	1	11	0.019
vou awake hours	Sometimes	36	17	16	0.017
How often do you	Never	7	3	3	
face stress	Sometimes	44	13	21	
situation in your	Sometimes		15		0.899
offices	Always	4	2	3	
How do you feel	Great	18	2	11	
while working in	Satisfied	31	15	16	0.079
the organization	Frustrated	6	1	0	/

Since p-values corresponding to mode of transportation to office, distance of work place from home and 'Are you drowsy or sleepy during you awake hours are small (less than 0.05), demographic variables mode of transportation to office, distance of work place from home and 'Are you drowsy or sleepy during you awake hours' were found to have significant association with knowledge of practices regarding heart attack.

DISCUSSION

The present study proved that there is lack of knowledge and knowledge of practice regarding early signs and management to support it a similar study is been done A descriptive study been done by (Vas M *et al*, 2000) to find out the detail physical activity profiles of educated employed in urban India. About 40% subjects between the ages 25 and 58 years were respondent. The study revealed that 50% of the subjects were aware of the benefits of exercise in preventing heart disease. Lack of motivation and time were the most often cited reasons for being unable to achieve ideal exercise goals.

A descriptive cross sectional study was done by (Kirkland SA *et al, 2004*) regarding the knowledge and awareness of risk factors of CVD among Canadians. The samples were 4976 samples were included in analysis and knowledge and awareness of CV risk factors was determined from the survey questionnaire. BP, anthropometric measurement, and blood measurement were obtained during a clinic visit. The finding were smoking and stress were manifested as a major cause of heart attack 41% men and 44% women, awareness of BP women did not differ in their (23%), physical inactivity (28%) as causes for heart attack.

A cross sectional study been done by (Yuba R *et al*, 2005) to determine the knowledge of heart attack and its symptoms and the anticipated first response to the symptoms among the public in Nepal aged between 16 to 18 years. A samples of 862 were taken for study. The results revealed that 91.7% of samples have heard about heart attack, but 21.3% could not name any symptoms of heart attack. The conclusion is awareness is not adequate and knowledge of wide range of heart attack symptoms is deficient in Nepalese general population.

In the present study researcher want to discuss regarding the importance of education can bring a change in reduce of heart attack. A field experiment was undertaken by (Hislop TG *et al*, 2003) in three northern California towns to determine whether community health education can reduce the risk of heart attack. The samples varied from 12000 and 15000 from two town an intensive mass campaign been done before that each samples were interviewed and examined before campaign began and one to two years afterwards to assess the knowledge of behavior related to heart attack and to measure the physiological indicators of risk. The result showed that in the community the risk of CVD increased over two years, but in the intervention communities there was a substantial and sustained decrease in risk. The net difference in estimated total risk between control and intervention samples was 23-28%.

CONCLUSION

As heart attack is major cause of death worldwide so it is important for the executives to have an awareness regarding the early signs and management of heart attack to cope up with situation if it arises for the self as well as for other. As the finding suggest that is lack of awareness regarding the early signs of heart attack and its management. With this it will help to prevent the mortality and morbidity rate of heart attack and can give first aid to self or others. Unni Sini K and Lt Col. Shobha Naid., A Study to Assess the Awareness Regarding Early Signs of Heart and its Management among the Executives Working in Selected offices of Pune City

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Conflict of Interest

The author does not have any conflict of interest.

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