

# Reduction of Risk Factors Related to Cardiovascular Disease among Midlife and Older Women: A Patient Perspective.

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## ABSTRACT

**Background:** Cardiovascular disease (CVD) is the leading cause of death in women. Even though cardiovascular disease develops over decades but it can be prevented by lifestyle modifications. Thus, the present study was conducted to understand knowledge and awareness about cardiovascular diseases in women. **Methods:** A sample of 74 women of age group 40-58 years were selected to evaluate the awareness of the cardiovascular disease among women. Participants were questioned regarding recent evaluation and knowledge of personal risk factors for CVD and on general knowledge of healthy levels. Statistical analysis was done by using SPSS, version 22 (SPSS, Inc., Chicago, IL) and  $p < 0.05$  was considered statistically significant. **Results:** Out of 74 women, 34 women consider the leading cause of death was cardiovascular diseases. 5 women consider breast cancer was the leading cause of death, 7 considered cancer was the cause, 11 considered diabetes was the cause and 10 considered that there might be other causes whereas 7 answered that they don't know about it. 8 females correctly identify blood pressure levels, 26 identifies HDL cholesterol, 9 identifies LDL cholesterol and 11 identifies blood sugar levels. **Conclusion:** Awareness of Cardiovascular disease risk factors among women is associated with preventive action of cardiovascular diseases. Education regarding the risk factors can help in decrease in the cardiovascular diseases.

**Keywords:** Cardiovascular diseases, women, cholesterol.

## INTRODUCTION

Cardiovascular disease (CVD) is the leading cause of death and disability for women claiming approximately 500000 women's lives each year.<sup>[1]</sup> It is important to focus efforts on midlife and older women, because their numbers are increasing.<sup>[2,3]</sup> Between 1997 and 2003, the percentage of women recognizing that heart disease was their leading cause of death rose significantly from 30% to 46%.<sup>[4]</sup> A lifestyle that includes a healthy diet, weight control, and appropriate physical activity can dramatically reduce the risk of heart disease in women.<sup>[5-11]</sup> General knowledge and awareness of a potential health hazard may be a necessary first step in taking action to reduce the threat of disease but may not be sufficient. Perceived personal susceptibility has been shown to increase prevention-seeking behaviors.<sup>[12]</sup> The purpose of this

study was to assess the level of knowledge and awareness about Cardiovascular diseases in women.

## MATERIALS AND METHODS

A sample of 74 women of age group 40-58 years were selected to evaluate the awareness of the cardiovascular disease among women. Participants were questioned regarding recent evaluation and knowledge of personal risk factors for CVD and on general knowledge of healthy levels. Statistical analysis was done by using SPSS, version 22 (SPSS, Inc., Chicago, IL) and  $p < 0.05$  was considered statistically significant.

## RESULTS

Our study include sample of 74 women of age group 40-58 years. Table 1 shows the pattern of awareness of the leading causes of death among women. Out of 74 women, 34 women consider the leading cause of death was cardiovascular diseases. 5 women consider breast cancer was the leading cause of death, 7 considered cancer was the cause, 11 considered diabetes was the cause and 10 considered

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that there might be other causes whereas 7 answered that they don't know about it. Table 2 shows female correctly identifying healthy cardiovascular disease risk factor levels. 28 females correctly identify blood pressure levels, 26 identifies HDL cholesterol, 9 identifies LDL cholesterol and 11 identifies blood sugar levels.

**Table 1: Pattern of awareness of the leading causes of death among women.**

Response	Female n(%)	p-value
Cardiovascular disease	34(45.94%)	p<0.05
Breast cancer	5(6.75%)	
Cancer	7(9.45%)	
Diabetes	11(14.86%)	
Other causes	10(13.51%)	
Don't know	7(9.45%)	

**Table 2: Female Correctly Identifying Cardiovascular disease Risk Factor Levels**

Cardiovascular disease Risk Factor	Female
High Blood pressure	28
Low HDL cholesterol	26
High LDL cholesterol	9
High Blood sugar	11

### DISCUSSION

Improvement in awareness has followed national efforts by the AHA and other organizations that have initiated campaigns to educate the public of the threat of heart disease in women. Although a direct causal effect cannot be determined, it can be inferred from the finding that awareness was greater among those women who reported seeing or having read information on the red dress symbol, a national representation of heart disease in women.<sup>[13]</sup> Our study shows the pattern of awareness of the leading causes of death among women. Out of 74 women, 34 women consider the leading cause of death was cardiovascular diseases. 5 women consider breast cancer was the leading cause of death, 7 considered cancer was the cause, 11 considered diabetes was the cause and 10 considered that there might be other causes whereas 7 answered that they don't know about it. 28 females correctly identify blood pressure levels, 26 identifies HDL cholesterol, 9 identifies LDL cholesterol and 11 identifies blood sugar levels. Similar study conducted by Mosca L et al shows that the rate of awareness of CVD as the leading cause of death has nearly doubled since 1997 (55% versus 30%) was significantly greater for whites compared with blacks and Hispanics (62% versus 38% and 34%, respectively). Fewer than half of the respondents were aware of healthy levels of risk factors. Awareness that personal level was not healthy was positively associated with action. Most women took steps to lower risk in family members and themselves. The most frequently cited barriers for heart health were confusion in the media (49%), the belief that health is determined by a higher

power (44%), and caretaking responsibilities (36%).<sup>[14]</sup>

Folta SC et al study suggest that the StrongWomen–Healthy Hearts program was effective in changing self-efficacy, a determinant of behavior, and several targeted behaviors. These changes likely contributed to the anthropometric changes in body weight and waist circumference associated with reduced risk of cardiovascular disease.<sup>[15]</sup>

Folta SC et al study shows that most women were aware of the modifiable risk factors for CVD. Although they realized they were susceptible, they thought CVD was something they could overcome.<sup>[16]</sup>

### CONCLUSION

Awareness of Cardiovascular disease risk factors among women is associated with preventive action of cardiovascular diseases. Education regarding the risk factors can help in decrease in the cardiovascular diseases.

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