# PREVALENCE OF LIFESTYLE DISEASES: COMPARISON WITH RESPECT TO GENDER, AGE AND LIFESTYLE FACTORS IN A SELECTED URBAN COMMUNITY OF PUNE 

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## KEYWORDS :

## AIM

The aim of the survey was to determine the prevalence of common Non-Communicable Diseases (NCDs) and their associated risk factors in a Selected Urban Community of Pune.

## OBJECTIVES

1. To prepare a survey tool
2. To assess the selected socio-demographic variables
3. To analyze the survey findings

## STUDY SETTINGS \& SAMPLE SIZE

The purpose of the study was to analyse the prevalence of lifestyle disease among people with respect to gender, type of food, lifestyle and age group. The sample included three hundred people selected though Random sampling from 90 families of Urban Community, Pune. The age of the participants ranged from 20 to 84 years. The direct personal interview method was used to collect data from the participants. The demographic and response data were analysed by using frequencies and percentages.

The demographic and response information are presented in five different categories under
(i) Gender, (ii) Type of food, (iii) Physical Activity and (iv) Age group.

## RESULTS

Table 1. Prevalence of lifestyle diseases with respect to gender

| Diseases | Male (N=138) |  | Female (N=162) |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Frequen <br> cies | percenta <br> ge | Frequenc <br> ies | Percent <br> age |


| Hypertension | 8 | 5.7 | 7 | 4.3 |
| :--- | :--- | :--- | :--- | :--- |
| Diabetes | 5 | 3.6 | 7 | 4.3 |
| Asthma | 2 | 1.4 | 1 | 0.6 |
| Cancer | 1 | 0.7 | - | - |
| Heart disease | 4 | 2.8 | 1 | 0.6 |
| Presence of 2 or more <br> diseases | 8 | 5.7 | 9 | 5.5 |
| Prevalence Of Disease | 28 | 20.2 | 25 | 15.4 |
| Absence of disease | 110 | 79.7 | 137 | 84.5 |
| Total | 138 | 100 | 162 | 100 |

Table 1 indicates that out of 138 male samples $28.2 \%$ had incidence of various lifestyle diseases while $79.7 \%$ were without any disease. Out of 162 female samples $15.4 \% \mathrm{had}$ prevalence of lifestyle diseases and $84.5 \%$ were without lifestyle diseases.


Table 2. Prevalence of lifestyle diseases with respect to diet

| Diseases | Vegetarian <br> $(\mathrm{N}=99)$ |  | Non-vegetarian <br> $(\mathrm{N}=201)$ |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Frequen <br> cies | percent <br> age | Frequenc <br> ies | Percent <br> age |
| Hypertension | 5 | 6.0 | 10 | 4.9 |
| Diabetes | 4 | 4.0 | 8 | 3.9 |


| Asthma | 1 | 1.0 | 2 | 0.9 |
| :--- | :--- | :--- | :--- | :--- |
| Cancer | - | - | 1 | 0.4 |
| Heart disease | 2 | 4.0 | 3 | 0.6 |
| Presence of 2 or more <br> diseases | 4 | 8.0 | 13 | 6.4 |
| Prevalence Of Disease | 16 | 16.1 | 37 | 18.4 |
| Absence of disease | 83 | 76.7 | 164 | 81.6 |
| Total | 99 | 100 | 201 | 100 |

Table 2 indicates that out of 99 vegetarian samples $16.1 \%$ had incidence of lifestyle diseases while $76.7 \%$ of vegetarians were without any disease. Out of 201 non-vegetarian samples $18.4 \%$ had incidence of lifestyle diseases while $81.6 \%$ were without lifestyle diseases.


Table 3. Prevalence of lifestyle disease with respect to physical activity

| Diseases | Physically active <br> $(\mathrm{N}=134)$ |  | Sedentary (N = <br> l66) |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Frequen <br> cies | percent <br> age | Frequen <br> cies | Percent <br> age |
| Hypertension | 6 | 4.4 | 9 | 5.4 |
| Diabetes | 5 | 3.7 | 7 | 4.2 |
| Asthma | - | - | 3 | 1.8 |
| Cancer | - | - | 1 | 0.6 |
| Heart disease | 3 | 2.2 | 2 | 1.2 |
| Presence of 2 or more <br> diseases | 7 | 5.2 | 10 | 6.0 |
| Prevalence Of Disease | 21 | 15.6 |  | 32 |
| Absence of disease | 113 | 84.3 | 134 | 80.7 |
| Total | 134 | 100 | 166 | 100 |

Table 3 indicates that out of 134 active samples $15.6 \%$ had incidence of various lifestyle diseases while $84.3 \%$ of active samples were not having any disease. Out of 166 sedentary samples $19.2 \%$ had incidence of various lifestyle diseases while $80.7 \%$ were without any disease.


Table 4: Prevalence of life style diseases with respect to age

| Diseases | $20-40$ years <br> $(\mathrm{N}=115)$ | $40-60$ years <br> $(\mathrm{N}=105)$ |  | $>60$ years <br> $(\mathrm{N}=80)$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Frequen <br> cies | Perce <br> ntage | Frequ <br> encies | Percent <br> age | Frequ <br> encies | Percen <br> tage |
| Hypertension | - | - | 5 | 4.7 | 10 | 12.5 |
| Diabetes | 2 | 1.7 | 3 | 2.8 | 7 | 8.7 |
| Asthma | 1 | 0.8 | 1 | 0.9 | 1 | 1.2 |
| Cancer | - | - | 1 | 0.9 | - | - |
| Heart disease | - | - | 3 | 2.8 | 2 | 2.5 |
| Presence of <br> or more <br> diseases | 2 | 1.7 | 6 | 5.7 | 9 | 11.2 |


| Prevalence of <br> Disease | 5 | 4.4 | 19 | 18.1 | 29 | 36.3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Absence of <br> disease | 110 | 95.6 | 86 | 81.9 | 51 | 63.7 |
| Total | 115 | 100 | 105 | 100 | 80 | 100 |

Table 5 indicates that $4.4 \%$ of the 115 sample under the age range of 20 to 40 years is with lifestyle diseases and $95.6 \%$ without lifestyle diseases. $18.1 \%$ of the 105 sample under the age range of 40 to 60 years is with lifestyle diseases and $81.9 \%$ without lifestyle diseases. $36.3 \%$ of the 40 sample under the age range of 60 and above are with lifestyle diseases and $63.7 \%$ without lifestyle diseases.


## DISCUSSION

Gender, age and lifestyle have significance impact on incidence of lifestyle diseases. The present study analysed the prevalence of lifestyle disease among people with respect to gender, age, diet, and physical activity among three hundred people from an urban community called Ghorpadi in Pune Cantonment, Pune. The percentage of lifestyle diseases was higher in males than females. It may possibly because the male participants of this study follow unhealthy lifestyle pattern including consumption of intoxicated items than female participants. The harmful use of alcohol is a particularly grave threat to men. Globally, $6.2 \%$ of all male deaths are attributed to alcohol, compared to $1.1 \%$ of female deaths. Men also have far greater rates of total burden attributed to alcohol than women $-7.4 \%$ for men compared to $1.4 \%$ for women (WHO, 2011b), (Awosan et al., 2013). The percentages of lifestyle diseases in vegetarians are less when compared to non-vegetarians as various studies (Craig, 2009) concluded that vegetarian food helps to reduce the risk of lifestyle diseases. The lifestyle diseases are very less in those who are physically active when compared to sedentary people. A sedentary lifestyle increases the propensity to lifestyle disease and premature death. The lifestyle diseases are very less in the age group of 20 to 40 years when compared to other age groups. And the lifestyle diseases are also less in the age group of $40-60$ when compared to the age group of 60 and above. "Inactivity may diminish life expectancy not only by predisposing to aging-related diseases but also because it may influence the aging process itself," researchers report in the January 29, 2008 issue of Achieves of Internal Medicine.

## Summary

Based on the results of the study the following conclusions were drawn.

1. Incidence of lifestyle disease among male participants was $28.2 \%$ and among females it was $15.2 \%$.
2. In case of vegetarians the percentage incidence of lifestyle disease was $16.1 \%$ and among non vegetarians it was 18.4\%.
3. In physically active participants the incidence of lifestyle disease was $15.6 \%$ and among sedentary participants it was $19.2 \%$.
4. In age wise categorization, in the age group of 20 to 40 years the incidence of lifestyle disease was $4.4 \%$, in the age of 40 to 60 years it was $18.1 \%$, and in the age of 60 and above it was $36.3 \%$.

## RECOMMENDATIONS

The study having demonstrated a high prevalence of lifestyle diseases and their risk factor warrants serious consideration
for development and implementation of relevant health promotion and intervention programmes that will improve the general health and reduce the risk factors.

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