**Title: Anthropometric measurement of nutritional status of educated pregnant women following dietary Assessment attending in hospitals of Dhaka city**.

**Submitted to:**

**Dr. Md. Bellal Hossain**

Professor & Head
Department of Nutrition and Food Engineering
Faculty of Allied Health Sciences (FAHS)
Daffodil International University

**Submitted by:**

**Saifun  Naher Shika**

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**Date of Submission: 20/12/2018**

# LETTER OF TRANSMITTAL

**Date: 20/12/2018**

Dr. Md. Bellal Hossain

Professor & Head

Department of Nutrition and Food Engineering

Faculty of Allied Health Sciences (FAHS) Daffodil International University

## Subject: Submission of project work report.

Dear Sir,

It is a great pleasure and honor for me to have the opportunity to submit my project work report on Assessment of Anthropometric measurement of nutritional status of educated pregnant following dietary Assessment attending in hospitals of Dhaka city.

I have prepared this report based on the acquired taste knowledge during my Project Period. It is great achievement to work. Without your help, this report would have been impossible to complete. This report is based on, ": Anthropometric measurement of nutritional status of educated pregnant women following dietary Assessment attending in hospitals of Dhaka city." I have got the opportunity to work in your University under the supervision of Fouzia Akhter, Senior Lecturer.

I, therefore, request and expect that you will appreciate me with any sort of recommendation and valued suggestion and will cordially receive this report for your kind assessment.

Sincerely Yours,

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Saifun  naher shika

ID: 151-34-367

Department of NFE

Daffodil International University

# CERTIFICATION OF APPROVAL

I do hereby declare that the project report entitled "Anthropometric measurement of nutritional status of educated pregnant women following dietary Assessment attending in hospitals of Dhaka city."

is a record of original work carried out by me under the supervision of **Fouzia Akhter,** Senior Lecturer, Department of Nutrition and Food Engineering, Daffodil International University, Dhaka-1207, Bangladesh. This project work or any part thereof has not been submitted elsewhere for the award of any degree, diploma, associate ship or fellowship.

…………………………

**Dr. Md. Bellal Hossain**
Professor & Head
Department of NFE
 Faculty of Allied Health
 Sciences (FAHS)
 Daffodil International University
 Dhaka.

…………………………

**Fouzia Akter**
 Senior Lecturer
 Supervisor
 Department of NFE
 Faculty of Allied Health
 Daffodil International University,
  Dhaka.
   .                                    .

# Content

**Table**

## Abstract

In pregnancy, good nutrition is key to ensure incensement maternal health and prevent the risk of birth defects.it also defended fetal growth and development and prevent health problems both mother and child.  My study aimed to investigate the food habits of pregnant women following dietary assessment attending in hospitals of Dhaka city, to assess their nutritional status to determine their socio- economic and dietary practice. To assess the food taboos. To capture the health and nutritional situation of Dhaka city women of reproductive age, I collects70 data on their dietary habits and measures their height, weight through hospital  based descriptive cross-sectional study on December  1 to 15 ,2018  at done Maternal and Child Health Training Institute ,Azimpur.


In my data study analysis  most of them a big  amount of women's education level 1-5 passed(43.2%), and a little bit are highly (21%)educated. among them 7.4% are under weight,35.8% are normal weight and 43.2 are overweight .  Socio-economic condition is of them13.6% are bad, 25.9% are good and 33.3% are very good.  All of them 19.8% women is same night.  I also analyses the co-relation the BMI and economic condition, BMI and parameter, BMI and economic, BMI and food (meat group), BMI and food (fish group), BMI and receive of antenatal checkup and all are co-related positively or negatively but not significant.

I study two journal according to my topic ,one of them are  positively significant another one is co-related positively or negatively but not significant   .Because  one site and sample are not same and  another  study  site is same as my data. Last of all my analysis I think that all the pregnant women are  educated in my data so they have  little bit knowledge about diet and the  also get information from TV nutritional program.so there I can't  get significant relation on my topic.

# 1. Introduction

Bangladesh is the most densely populated country, about 158 million people live in the country. According to the Bangladesh Bureau of Statistics (BBS) in 2014, 1070 number of people live per square kilometer .every 1 year 2 million people are added. The parentage of growth rate 1.37.now day 94 percent women are currently married. Seven in ten respondents (72 percent of women) reside in the rural areas. More than one-third (35 percent) of the respondents live in Dhaka.

Pregnancy is an anabolic process. For the fetal growth of pregnant and providing nutrition and energy of pregnant mother, maternal diet is needed .in developing country major cause of low birth weight baby intake of poor nutritional food during the third trimester of pregnancy anemia and vitamin A deficiency are highly prevalent nutrient deficiencies encountered in pregnant women, affecting 53.8 million (55.8 %) and 7.2 million ( 6.8 %) on a global scale, respectively. Both deficiencies to result in serious health consequences including increased m orbidity and mortality of both mother and child.

. In urban 59% of urban mothers receive antenatal care, rural areas the antenatal care receiving rate is only 28%..

My study aimed to investigate the food habits of pregnant women following dietary assessment attending in hospitals of Dhaka city, to assess their nutritional status to determine their socio- economic and practice. To assess the food taboos. To capture the health and nutritional situation of Dhaka city women of reproductive age, we need to collects data on their dietary habits and measures their height, weight.

ANTHROPOS' means man, 'metrics' is measurement .Measurement of body weight and dimensions, and the subsequent interpretation of the measurements in relation to appropriate reference data.

. Anthropometric measurement should be used to identify acute malnutrition during pregnancy. Monitoring gestational nutritional status by taking anthropometric measurements is a promising means of enhancing fetal growth. The importance of anthropometric measures for assessment of the nutritional *status* of pregnant women is heightened by the fact that they are easy to apply, low-cost, and relatively non-invasive. Some programmers use the normal body mass index (BMI). The BMI is defined as the body mass divided by the square of the body height, and is universally expressed in units of

1

kg/m², resulting from mass in kilograms and height in meters A traditional measuring tape, and a standard weight measuring scale are used to measure the anthropometric dimensions and weight.

# 2. OBJECTIVE

## 2.1 GENERL ASSESSMENT

➢ To assess the improvement of the anthropometric measurements of educated pregnant women.

## 2.2 SPECIFIC ASSESSMENT

➢ To investigate the food habits
➢ To assess the adequate nutritional status is essential for of pregnant women.
➢ To assess the food consuming pattern and intake of macro, micro nutrient during pregnancy
➢ To assess pregnancy related taboos
➢ To assess Comparison of our results with other studies in Algeria and other countries.
➢ Identify psycho-social issues that may affect food intake and nutritional statu

# 3.Method

3.1 Study design: hospital based descriptive cross-sectional study among pregnant mother. Data were collected by face to face interview.

3.2 Study period:  December 1 to 15,2018

3.3 Study site: data collection was done Maternal and Child HealthTrainingInstitute,Azimpur

3.4 Sampling:  In this survey random sampling was used. Total 70 respondent were interviewed for the date.

## 3.5 Data collection method:

➢ Individuals wishing to participate in the study were invited to attend the study on a pre-arranged date 30.11.2018 after received consent from subject, data were collected through a self-reported information questionnaire.
➢ Data is collected from 100 pregnant women. To assess the adequate nutritional status which is essential for of pregnant women.
➢ The study, cross, was conducted between 1 to 15 December 2018, at Maternal and Child HealthTrainingInstitute, Azimpur. It was conducted by questionnaire and includes general information, educational level, occupation, health status, frequency of consumption of major food and anthropometry
➢ After collecting the data was entered and analyzed using SPSS.

## 4. Result

## Table:4 1 frequency of height of educated pregnant women

| Height | Frequency | Percent |
|--------|-----------|---------|
| 124 | 1 | 1.2 |
| 130 | 1 | 1.2 |
| 131 | 1 | 1.2 |
| 132 | 1 | 1.2 |
| 134 | 1 | 1.2 |
| 139 | 1 | 1.2 |
| 139 | 1 | 1.2 |
| 140 | 1 | 1.2 |
| 142 | 2 | 2.5 |
| 144 | 3 | 3.7 |
| 145 | 1 | 1.2 |
| 147 | 3 | 3.7 |
| 149 | 2 | 2.5 |
| 150 | 1 | 1.2 |
| 152 | 16 | 19.8 |
| 154 | 4 | 4.9 |
| 155 | 2 | 2.5 |
| 156 | 1 | 1.2 |
| 157 | 15 | 18.5 |

| 158 | 6 | 7.4 |
|-----|---|-----|
| 160 | 1 | 1.2 |
| 162 | 4 | 4.9 |
| 164 | 1 | 1.2 |
| 165 | 1 | 1.2 |

**Table: 4. 2**

**Frequency of food (meat) group consume by educated pregnant women**

| Variable | Category | Frequency | Percent |
|----------|----------|-----------|---------|
| Beef | Yes | 32 | 39.5 |
| | No | 38 | 46.9 |
| Chicken | Yes | 44 | 54.3 |
| | No | 26 | 32.1 |
| Liver | Yes | 29 | 35.8 |
| | No | 41 | 50.6 |

**Table :4.3**

**Frequency table of food (fruits) group consumed by educated pregnant women**

| Variable | Category | Frequency | Percent |
|---|---|---|---|
| Apple | Yes | 50 | 61.7 |
| | No | 17 | 21.0 |
| Orange | Yes | 51 | 63 |
| | No | 18 | 22.2 |
| broccoli | Yes | 34 | 42 |
| | No | 36 | 44.4 |
| Lentils | Yes | 55 | 67 |
| | No | 13 | 1624 |
| cauliflower | Yes | 53 | 65.4 |
| | No | 17 | 21.0 |
| Watermelon | Yes | 24 | 29.6 |
| | No | 46 | 56.8 |
| Grapes | Yes | 55 | 67.9 |
| | No | 15 | 18.5 |
| Guava | Yes | 62 | 76.5 |
| | No | 8 | 9.9 |
| Carrot | Yes | 52 | 64.2 |
| | No | 18 | 22.2 |

| Spinach | Yes | 51 | 63 |
|---------|-----|-----|-----|
|         | No  | 19 | 23.5 |

**Table:4. 4**

**Frequency table of BMI of educated pregnant women**

| BMI | Frequency | Percent |
|-----|-----------|---------|
| Under weight:(BMI is less than 18.5) | 6 | 7.4 |
| Normal weight:(BMI is 18.5 to 24.5) | 29 | 35.8 |
| Overweight (BMI 25to 29.9) | 35 | 43.2 |

**Table: 4.5**

**Frequency table of economic status of educated pregnant women**

| Variable | Category | Frequency | Percent |
|---|---|---|---|
| INCOME | 5k-10k taka | 11 | 13.6 |
| | 11k-20k taka | 21 | 25.9 |
| | 21k-30k taka | 27 | 33.3 |
| OCCUPATION | Housewife | 61 | 75.3 |
| | house made | 2 | 2.5 |
| | Business | 2 | 2.5 |
| | Survice | 5 | 6.2 |
| EDUCATION | 1-5 passed | 35 | 43.2 |
| | 6-10 passed | 18 | 22.2 |
| | HSC passed | 17 | 21.0 |

**Table: 4. 6**

**Correlation table of BMI and economic condition of educated pregnant women**

| Variable | Pearson correlation | Significant p value |
|---|---|---|
| BMI | 1 | |
| ECONOMIC CONDITION | -.214 | 0.38 |

Variables (BMI, economic condition) are positively and negatively co- related

**Table: 4. 7**

**Correlation table of BMI and education of educated pregnant women**

| Variable | Pearson correlation | Significant p value |
|---|---|---|
| BMI | 1 | .112 |
| EDUCATION | .147 | .112 |

Variables (BMI, economic condition) are positively and negatively co-related

**Table:4. 8**

**Correlation table of BMI and parameter of educated pregnant women**

| Variable | Pearson correlation | Significant p value |
|---|---|---|
| BMI | 1 | |
| Weight | .624 | .ooo |
| Height | -259 | .015 |

**. Correlation is significant at the 0.01 level (1-tailed).

*Correlation is significant at the 0.05 level (1-tailed).

Variables (BMI, parameter) are positively and negatively co-related

**Table: 4. 9**

**Correlation table of BMI and food (meat group)of educated pregnant women**

| Variable | Pearson correlation | Significant p value |
|---|---|---|
| BMI | 1 | |
| Beef | -.122 | .157 |
| Chicken | -.035 | .385 |
| Liver | .136 | .131 |

*. Correlation is significant at the 0.05 level (1-tailed)

**. Correlation is significant at the 0.01 level (1-tailed).

Variables (BMI , meat group) are positively and negatively co-related

Table: 4. 10

Correlation table of BMI and food (fish group)of educated pregnant women

| Variable | Pearson correlation | Significant p value |
|----------|---------------------|---------------------|
| BMI | 1 | |
| Fish | .056 | .321 |
| Hilsa | .181 | 0.67 |
| Kachki | -.027 | .412 |
| Shing | -.072 | .276 |
| Magur | -.008 | .472 |
| Bual | -250 | .018 |

*P value is significant at the 0.05 level

**P value is significant at the 0.01 level

Variables (BMI , fish  group) are  positively and negatively  co-related

**Table: 11**

**Correlation table of BMI and receive of antenatal checkup of educated pregnant women**

| VARIABLE | PERSON CORELATION* | SIGNIFICANT P VALUE** |
|---|---|---|
| BMI | 1 | |
| RECIVE OF ANTINATAL CHECKUP | -.235 | .050 |

*P value is significant at the 0.05 level

Variables (BMI , antenatal checkup ) are co-related Significantly

## 5. Discussion:

 I conduct a hospital based descriptive cross-sectional study among pregnant mother. Data were collected by face to face interview on done Maternal and Child Health Training Institute, Azimpur.I Think that Anthropometric measurement of nutritional status is significant according to dietary Assessment on educated women attending in hospitals of Dhaka city.

In my data study analysis every pregnant women are educated. most of them a big  amount of women's education level 1-5 passed(43.2%), and a little bit are highly (21%)educated. among them 7.4% are under weight,35.8% are normal weight and 43.2 are overweight . Socio-economic condition is of them13.6% are bad, 25.9% are good and 33.3% are very good.  All of them 19.8% women is same height.  I also analyses the co-relation the BMI and economic condition, BMI and parameter, BMI and economic, BMI and food (meat group), BMI and food (fish group), BMI and receive of antenatal checkup and all are co-related positively or negatively but not significant.

 I study two journal  according to my topic ,one(4) of them are  positively significant another one(3) is co-related positively or negatively but not significant .because  one site and sample are not same as us. they study  in rural area of Camilla  and Dhaka city on 100 women and another one sample(245) is different but site is similar to us .

## 6. Conclusion

Last of all my analysis I think that all the pregnant women are  educated in my data so they have  little bit knowledge about diet and the  also get information from TV nutritional program.so there I can't  get significant  relation on my topic.

## 7.RAFARANCE

DEMOGRAPHIC AND HEALTH SURVEY 2014. National Institute of Population Research and Training Ministry of Health and 1ANGLADESH Family Welfare Dhaka, Bangladesh. March 2016

2 .Esmaillzadeh, Ahmad, Saeid Samareh, and Leila Azadbakht. "Dietary patterns among pregnant women in the west-north of Iran." *Pakistan Journal of Biological Sciences* 11.5 (2008): 793.

3. Atuahene, M., Mensah, D., & Adjuik, M. (2015). A cross-sectional study of determinants of birth weight of neonates in the Greater Accra region of Ghana. *Maternal health, neonatology and perinatology*, *1*(1), 23.

4..Akther, L., Hossain, M. B., Awwal, A. A., & Nesa, A. (2015). Anthropometric Assessment of Nutritional Status in Pregnant Women in Different Trimesters Attending at the Antenatal Clinic of DMCH. *Anwer Khan Modern Medical College Journal*, *6*(1), 20-24.

**Questionnaire**

**On**

**Anthropometric measurement of nutritional status of pregnant women following dietary assessment attending in hospital of Dhaka city.**

Questionnaire ID: [ ][ ][ ]

| Interviewee and interviewer details |
|---|
| Name of the hospital <br><br> Address: <br><br> Mohallah: <br><br> Thana: <br><br> District |
| Name of interviewer:--------------------------- |
| Type of resident: <br> Slum.................................................................................. 1 <br> Non-slum ............................................................................. 2 |
| Start time of interview: [ ][ ] : [ ][ ] <br> (Use 24 hours format) <br>                  HH   :   MM |
| Date of interview: [ ][ ][ ][ ][ ][ ] <br><br>           Day     Month    Year |
| **Results of the interview:** <br> Complete ............................................................................ 1 <br> Incomplete ......................................................................... 2 <br> Refusals .............................................................................. 3 |

| Background characteristics and Socio economic characteristics | | | |
|---|---|---|---|
| Sl.No | Question | Response | Skip |
| 1 | How old are you? | ----------------------(Completed years) | |
| 2 | What is your religion? | Islam ............................................. 1 <br> Hindu ........................................... 2 <br> Christian ...................................... 3 <br> Buddhist ...................................... 4 <br> Others(Specify)............................ 7 | |

| 3 | What is your level of educational qualification? (Completed years) | 1-5 passed .................................... 1<br>6-10 Passed ................................. 2<br>HSC passed .................................. 3<br>Graduate/Fazi passed .................. 4<br>Post graduate passed ................... 5 | |
| --- | --- | --- | --- |
| 4 | What is your primary occupation? | Housewife .....................................1<br>House maid ...................................2<br>Business........................................3<br>Service(Govt. or Non-Govt.)...........4<br>Daily wager...................................5<br>Others(Specify)..............................7 | |
| 5 | What is the level of education of your husband? | 1-5 passed ....................................1<br>6-10 Passed ..................................2<br>HSC passed ...................................3<br>Graduate/Fazi passed ....................4<br>Post graduate passed ....................5 | |
| 6 | What is your husband's occupation? | Service (Govt. Non Govt.)...............1<br>Business.........................................2<br>Day laborer....................................3<br>Home maker/Household work.......4<br>Agriculture.....................................5<br>Others............................................7 | |
| 7 | How many earning members in your family? | --------------(Number) | |
| 8 | What is your monthly income? | Tk-----------------<br>5k-10k taka ( level-1)......................1<br>11k-20k taka ( level-2)...................2<br>21k-30k taka ( level-3 )..................3<br>31k-50k taka ( level-4)...................4<br>Above 50k taka ( level-5)...............5 | |
| 9 | Which material is your home made? | Raw house .................................... 1<br>Brick house .................................. 2<br>Tin................................................ 3<br>Semi-tilled house.......................... 4 | |
| 10 | What is your socioeconomic condition? | Good.............................................. 1<br>Very good .................................... 2<br>Bad................................................ 3<br>Very bad ...................................... 4 | |
| **Reproductive history** | | | |
| 11 | What is your marital status? | Married......................................... 1<br>Unmarried ................................... 2<br>Separated .................................... 3<br>Divorce ........................................ 4 | |
| 12 | Do you have any child | Yes ............................................... 1<br>No.................................................. 2 | |
| 13 | If yes, then how many? | Number------------ | |

| 14 | How many member in your family? | Number-------------- | |

| 15 | Duration your pregnancy did you see anyone for antenatal checkup? | Yes ...............................................1 <br> No ................................................2 | |
|----|---------------------------------|----------------------------------------------|---|
| 16 | During your pregnancy period, what was the duration of your pregnancy at your first antenatal checkup? | ------------- (Weeks) | |
| 17 | During your last pregnancy, total how many times did you receive antenatal checkup? | ------------(Number) | |
| 18 | During your antenatal checkup, what complication(s) did you face? (Multiple answers are acceptable) | No complication ............................ 1 <br> Headache....................................... 2 <br> Blurring of vision ........................... 3 <br> High blood pressure ....................... 4 <br> Convulsion ..................................... 5 <br> Anaemia ........................................ 6 <br> Others (Specify)............................. 7 | |

**Food security**

Food Frequency Question

| 19 | | |
|----|----|
| **Meat and Fish** | Yesterday during the day or night, did you consume the following food items? |
| Lab | Yes------1    No---------2    Don't know---------8 |
| Chicken or poultry | Yes------1    No---------2    Don't know---------8 |
| Liver, liver pate | Yes------1    No---------2    Don't know---------8 |
| Fish | Yes------1    No---------2    Don't know---------8 |
| Dry fish | Yes------1    No---------2    Don't know---------8 |
| Prawns | Yes------1    No---------2    Don't know---------8 |
| Rui fish | Yes------1    No---------2    Don't know---------8 |
| Hilsa fish | Yes------1    No---------2    Don't know---------8 |
| Kachki fish | Yes------1    No---------2    Don't know---------8 |
| Shing | Yes------1    No---------2    Don't know---------8 |
| Magur | Yes------1    No---------2    Don't know---------8 |
| Panggas | Yes------1    No---------2    Don't know---------8 |
| Bual | Yes------1    No---------2    Don't know---------8 |
| **Snacks** | Yes------1    No---------2    Don't know---------8 |
| Bread and biscuits | Yes------1    No---------2    Don't know---------8 |
| Puff rice | Yes------1    No---------2    Don't know---------8 |
| Chira | Yes------1    No---------2    Don't know---------8 |
| Chanachur | Yes------1    No---------2    Don't know---------8 |
| Homemade snacks ( pakora, bora etc) | Yes------1    No---------2    Don't know---------8 |
| Chalvaja | Yes------1    No---------2    Don't know---------8 |

| Cereals | Yes------1 | No---------2 | Don't know---------8 |
|---|---|---|---|
| **Cereals** | Yes------1 | No---------2 | Don't know---------8 |
| atta / moyda | Yes------1 | No---------2 | Don't know---------8 |
| Suji | Yes------1 | No---------2 | Don't know---------8 |
| Chatu | Yes------1 | No---------2 | Don't know---------8 |
| Corn | Yes------1 | No---------2 | Don't know---------8 |
| **Potatoes/rice** | Yes------1 | No---------2 | Don't know---------8 |
| Potatoes | Yes------1 | No---------2 | Don't know---------8 |
| White rice | Yes------1 | No---------2 | Don't know---------8 |
| Brown rice | Yes------1 | No---------2 | Don't know---------8 |
| **Dairy products and fats** | Yes------1 | No---------2 | Don't know---------8 |
| Sour cream | Yes------1 | No---------2 | Don't know---------8 |
| Clotted cream | Yes------1 | No---------2 | Don't know---------8 |
| Yogurt | Yes------1 | No---------2 | Don't know---------8 |
| Desserts | Yes------1 | No---------2 | Don't know---------8 |
| Ice cream | Yes------1 | No---------2 | Don't know---------8 |
| Nuts | Yes------1 | No---------2 | Don't know---------8 |
| **Fats/proteins** | Yes------1 | No---------2 | Don't know---------8 |
| Eggs | Yes------1 | No---------2 | Don't know---------8 |
| Only yolk | Yes------1 | No---------2 | Don't know---------8 |
| Only white part of egg | Yes------1 | No---------2 | Don't know---------8 |
| Soybean oil / mustard  oil / sunflower oil | Yes------1 | No---------2 | Don't know---------8 |
| **Fruits and Vegetables** | Yes------1 | No---------2 | Don't know---------8 |
| Apple | Yes------1 | No---------2 | Don't know---------8 |
| Orange | Yes------1 | No---------2 | Don't know---------8 |
| Hog plum | Yes------1 | No---------2 | Don't know---------8 |
| BROCCOLI | Yes------1 | No---------2 | Don't know---------8 |
| Cauliflower | Yes------1 | No---------2 | Don't know---------8 |
| LANTILS | Yes------1 | No---------2 | Don't know---------8 |
| Cabbage | Yes------1 | No---------2 | Don't know---------8 |
| Pomegranate | Yes------1 | No---------2 | Don't know---------8 |
| BERRIES | Yes------1 | No---------2 | Don't know---------8 |
| WATERMELON | Yes------1 | No---------2 | Don't know---------8 |
| Coconut | Yes------1 | No---------2 | Don't know---------8 |
| BANANNA | Yes------1 | No---------2 | Don't know---------8 |
| Grapes | Yes------1 | No---------2 | Don't know---------8 |
| Guava | Yes------1 | No---------2 | Don't know---------8 |
| Pear | Yes------1 | No---------2 | Don't know---------8 |
| Carrot | Yes------1 | No---------2 | Don't know---------8 |
| SPINACH | Yes------1 | No---------2 | Don't know---------8 |
| Lentils | Yes------1 | No---------2 | Don't know---------8 |

| | Pulses | Yes------1    No---------2    Don't know---------8 | |
|---|---|---|---|
| **Physical activities** |
| 35 | Did you perform physical activity? | Yes ...................................................1<br>No ....................................................2 | |
| 36 | What types of physical activity did you perform? | Light..............................................<br>Moderate .....................................<br>Heavy............................................ | |
| 37 | How did you spend your leisure time? | Watching television.......................<br> Listening radio .............................<br> Social network .............................<br> Other(Specify) ............................. | |
| 38 | Do you watch various health nutritional program on television? | Yes ...................................................1<br>No ....................................................2 | |
| **Measurement** |
| 39 | Weight of the respondents (Kg)? | |___|____|____|.|____|____| | |
| 40 | Weight of the respondents (Cm)? | |____|____|____|.|____| | |
| 41 | What is your nutritional status? | Underweight: (BMI is less than 18.5).. 1<br>Normal weight: (BMI is 18.5 to 24.9).. 2<br>Overweight: (BMI is 25 to 29.9) .......... 3<br>Obese: (BMI is 30 or more) ................. 4 | |
| 42 | Blood pressure | Systolic |___|___|___|  Diastolic |___|___|__ | |
| 43 | Blood group | ------------------- | |
| 44 | End time of interview | HH          MM | |
| **Thanks for giving your valuable time** |