

Taste without Sugar





Nutrition Coordination Division Ministry of Health, Nutrition & Indigenous Medicine Consumption of excessive sugar has been identified as one of the main causes for widespread Non-Communicable Disease such as diabetes, heart diseases, kidney diseases, cancer ect. Therefore, this year Nutrition Month theme is

"Taste without sugar"

This booklet is designed by

Nutrition Coordination Division
for the children with the objective of combating
adverse marketing strategies and
create a healthy nation.

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Do we need Sugar?

Sugar is not an essential food

- Sugar is a carbohydrate. It just provide energy and has no other nutrient in it.
- We can consume other nutritious food to obtain energy which contain carbohydrates and fat. (Rice, potato, sweet potato, grains, butter, cheese, etc).
- If you really wants to consume sugar, you should limit sugar intake to 6 teaspoons (25g) per day (This includes sweetened beverages and sweets).

Sugar sweetened beverages and sweetened milk

Most of the beverages are processed with high sugar. This includes sugar added beverages, sweetened milk, sugar added tea or coffee

Most commonly consume sweetened beverages & milk

- Soft drinks (Carbonated)
- Fruit drinks and cordials
- Sports drinks
- Energy drinks
- Sweetened milk, yoghurt drinks
- Sweetened tea and coffee















Amount of Sugar (No. of Teaspoons) content in commonly available sugar sweetened beverages in the market.



4.2 g of sugar =1 teaspoon

We can get a clear picture of the amount of sugar in beverages that we consume according to the colour cord marked in the label



Green - Low sugar Less than 2 g (½ teaspoon) in 100ml



Orange - Medium sugar Less than 2 - 11g of sugar (½ to 2½ teaspoon) in 100ml

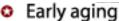


Red - High sugar more than 11g of sugar (2 ½ teaspoons) in 100ml

4.2 g =1 teaspoon

Do you know that sweetened beverages and milk has many adverse effects?

- Overweight and obesity
 (Extra enegy gained from sweetened beverages will be converted in to fat & deposited in the body)
- Diabetes
- Heart diseases
- Metabolic syndrome
- Dental caries
- Kidney stones/ kidney failure
- Osteoporosis
- Cancer
- Skin discoloration











How do we know about the amount of sugar in sweetened beverages?



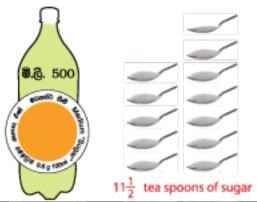






N.B. Beware of the artificial sweetnes in the beverages even it is mentioned as low sugar

Know about the sugar content according to the volume of the bottle or packet



Sugar in 100ml = 9.6 g
Sugar in 500ml = 9.6 g x 5 = 48 g
1 teaspoon of sugar = 4.2 g of Sugar
Number of Teaspoons of sugar in 500ml =
$$\frac{48}{4.2}$$
 = 11.42 \simeq 11 $\frac{1}{2}$

Energy Level

Energy measured in kilo calories (k cal)

Total sugar content in beverages should be mentioned in grams in the label. Sugar can be present in the form of sucrose, fructose, glucose, honey, cane sugar, maple syrup, dextrose, etc.

Other ingrediants and their adverse effects in sweetened beverages

	Ingrediants	Adverse effect
1	Sugars (Sucrose, Fructose, Dextrose and Maltose)	Over weight and obesity, Risk of non communicable diseases Dental caries
2	Caffeine	Hypertension Increased heart beat Frequent urination Headache Mental Stress
3	Artificial flavours	Headache Food poisoning Giddiness Anxiety Tiredness Certain cancers Anxiety
4	Artificial Sweetners Aspartame Saccharin Sucralose	Risk of Obesity Effect on metabolism Diabetes Hypertension Heart Diseases
5	Colourings	Cancers Vomiting Genetical modifications Hyperactivity in children Food poisoning Headache
6	Food preservatives	Allergies
7	Phosphoric acid	Kidney stones Kidney failure
8	Citric acid	Gout Kidney stones

What are the healthy drinks we can use?



N.B. Natural fruit drinks, king coconut etc. contains some amount of sugar. Therefore should avoid excessive consumption of it within a day

Water... through out the day......

Best drink is water

65% of our body consists of water

✓ Drink plenty of water throughout the day

1.5 - 2 liters of water should drink everyday

If you are involved in sports or exercise, you must drink 1 glass of water for every 20 minutes when you are physically active

You should drink a glass of water (250 - 300 ml) specially

- as soon as you wake up in the morning
- 1 hour before meal
- 2 hours before go to sleep
- Before snacks

P.S. Patients with heart and kidney diseases should consult their doctor to get on idea about the amount of water they should drink per day

Advantages of drinking water

✓ Refresh your self
 ✓ Control weight gain

✓ Improves the skin complexion ✓ Detoxification

✓ Reduce joint pains
✓ Avoid constipation

✓ Improve immunity (to fight against diseases)

✓ Relive tierdness



Other food which cause Non Communicable Diseases

1. Sugary foods

Toffee, Chocolates, Ice cream , Ice packets, Icing cakes, Cream biscuits



2. Food with trans fat

Trans fat increases unhealthy cholesterol in the body

Bakery products, Cakes, Cracker biscuits, deep fried (with reused oil) Rolls, Potato chips, etc.



3. Salty food

Pickles, Sauce, chutneys, savory biscuits, salty bites, Salted peanuts/Chick pea









Amount of Sugar (in teaspoons) in commonly available biscuits in the market



Nutritious Snacks







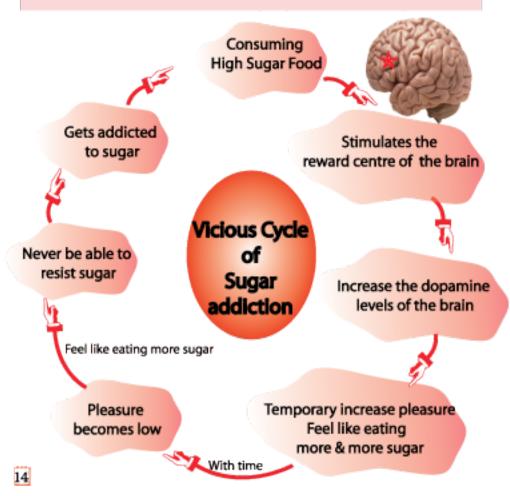






SUGAR Is an addictive

Addiction is a cravenness for intake something which do not have control over it and becomes totally dependant on it. Sugar considered as a dangerous addictive than alcohol and drugs (Cocaine) which are considered as strong addictives.



Tips to reduce consumption of high sugar drinks

- Always consider about the amount of sugar of the drink you choose
- When purchasing drinks from a canteen, always purchase water instead of sugar added drinks
- Always carry a water bottle with you to office/school
- Whenever you fell thirsty, drink water first.

 It helps you to reduce the quantity of sugar added drinks even if you purchased
- Avoid places where sugar added drinks/ sweetened milk, yoghurt drinks, biscuits, cakes, bites stored in super markets

- Do not bring & store sugar added drinks/ sweetened milk and sugary food at home
- Whenever you feel hungry between main meals, better to drink water
- Reduce the amount of sugar used for tea, coffee, fruit drinks preparations.

 (Adding sugar is not necessary)
- Always carry your meals with you whenever you go to school/office
- Take a healthy and early breakfast (consists of Carbohydrate, protein, fat, vitamin and minerals)
- Minimize stress (Stress leads to eat more sugar).

 Activities like listening to music, enjoy the beauty of your environment, meditation and taking deep breaths will help to reduce stress
- Exercise to burn extra calorie. (Walking, dancing, playing, household work and gardening etc.)

Our Nutritious main meal



Do you concern about your weight?

Measure your body Mass Index(BMI) and waist circumference

Measurements for individuals above 18 years

Body Mass Index (BMI)

BMI value = Weight (kg) Height (m) x Height (m)

BMI value

Less than 18.5 - weight not sufficient

18.5 – 24.9 - Ideal weight 25 -29.9 - Over weight

30 or above - Obese

Waist Circumference

Measure around your naval when belly is relaxed

Male 90 cm (less than 36 inches) Female 80 cm (less than 32 inches)

P.S. Use starndard chrats for children less than 18 years

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