Obesity An Emerging Crisis in Pakistan



Overweight and Obesity

- Abnormal or excessive fat accumulation that may impair health
- Body mass index (BMI) is a simple and commonly used method to identify overweight and obesity in adults
 - Overweight: BMI ≥ 25 and ≤ 29.9
 - Obesity: BMI ≥ 30
- In children under 5, compared with WHO growth standards
 - Overweight > 2 standard deviations
 - Obesity > 3 standards deviations
- In children 5-19 years
 - Overweight > 1 standard deviations
 - Obesity > 2 standards deviations

Obesity is associated with an elevated risk of several major non-communicable diseases, including type 2 diabetes, coronary heart disease, stroke, asthma, and several type of cancers.

NCDs Proportional Mortality - Pakistan



12%

Cardiovascular Other NCDs diseases

8%

35%

Cancers

Communicable, maternal, perinatal and nutritional conditions

5%

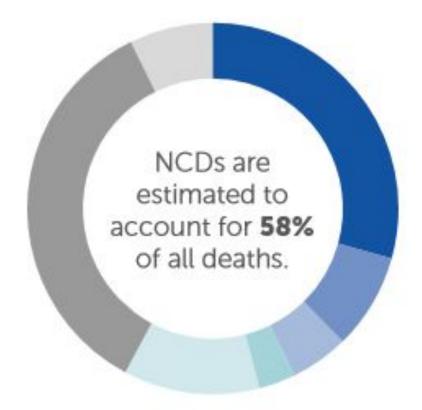
7%

Chronic respiratory diseases

Injuries





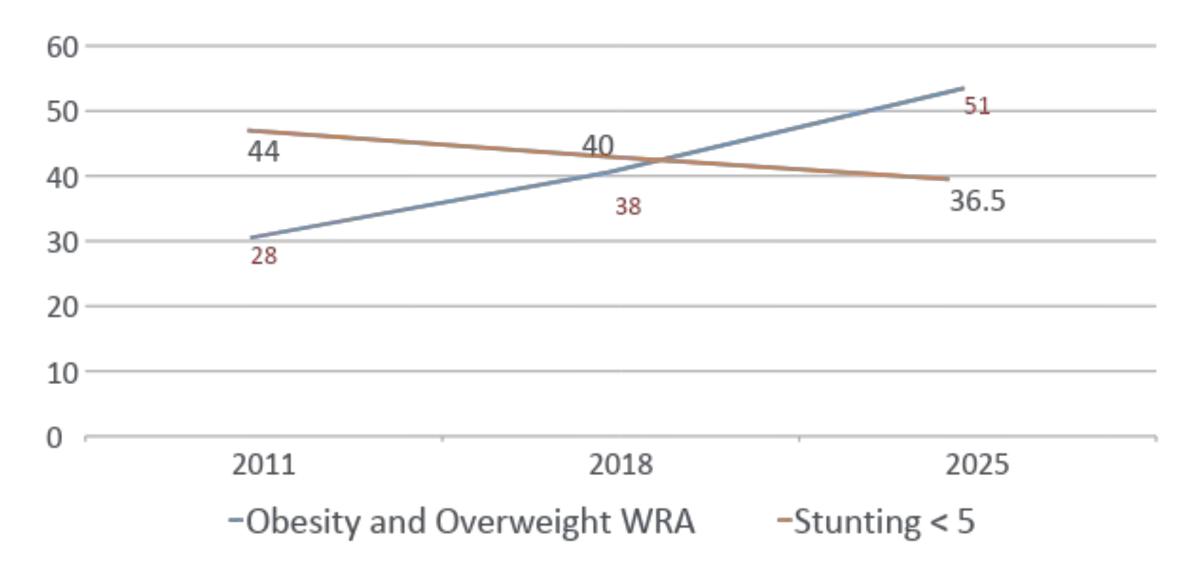


Source: WHO 2018

Obesity and Overweight - Pakistan

- NNS confirmed that obesity and overweight increased in WRA from 28% to 38% from 2011 to 2018.
- In urban areas, 43.7% of WRAs are overweight or obese.
- Approximately 17% of adolescent girls, and 18% boys are obese or overweight.
- The prevalence of overweight among children under five has almost doubled from 2011 to 2018.

Where Are We Heading?



Major Causes of Obesity and Overweight

- Fundamental cause an energy imbalance between calories consumed and calories expended.
- Increased intake of energy-dense, ultra-processed foods and beverages that are high in fat and sugars
- Decrease in physical activity
- COVID-19 further fueled the problem:
 - Restricted movements and physical activity
 - Limited access to healthy foods
 - Increased consumption of junk (ultra-processed) foods

Unhealthy Food Leading to Obesity

- Increased sugar intake sugary drinks
- Increased oil and fat intake
- Processed foods
- Shift from homemade to processed foods
- Fast food
- Water replaced by sugary drinks

Processed Foods

- Processed and ultra-processed foods often include unhealthy levels of added sugar, sodium and fat.
- These ingredients make the food we eat taste better and these often lead to serious health issues like obesity, heart disease, high blood pressure and diabetes.

Sugary Drinks

- Intake is significantly associated with weight gain, obesity and heart disease.
- Drinking one sugary beverage daily doubles the risk of developing diabetes.
- A child's risk of becoming obese increases by 60% with each additional sugary beverage consumed daily.
- Children who drink carbonated sugary beverages have almost double the risk of dental cavities.
- Drinking just one 20-ounce bottle of a sugary beverage per day can result in gaining 25 extra pounds per year.
- Fatty liver disease and metabolic kidney disease are consequences of sugary beverage intake.



Prevention is Better Than Finding a Cure

- Say NO to sugary drinks
- Say NO to junk foods
- Increase physical activity
 - 60 minutes a day for children
 - 150 minutes spread through week for adults







What Can Policy Makers Do?

- Develop national strategy to combat obesity
- Make it easier for consumers to buy healthy foods
- Increase taxes and make it less affordable to buy unhealthy products like sugary drinks
- Incentivize businesses to supply healthy foods at affordable prices
- Regulate and keep strong checks on promotion of unhealthy foods and beverages
- Promote physical activity

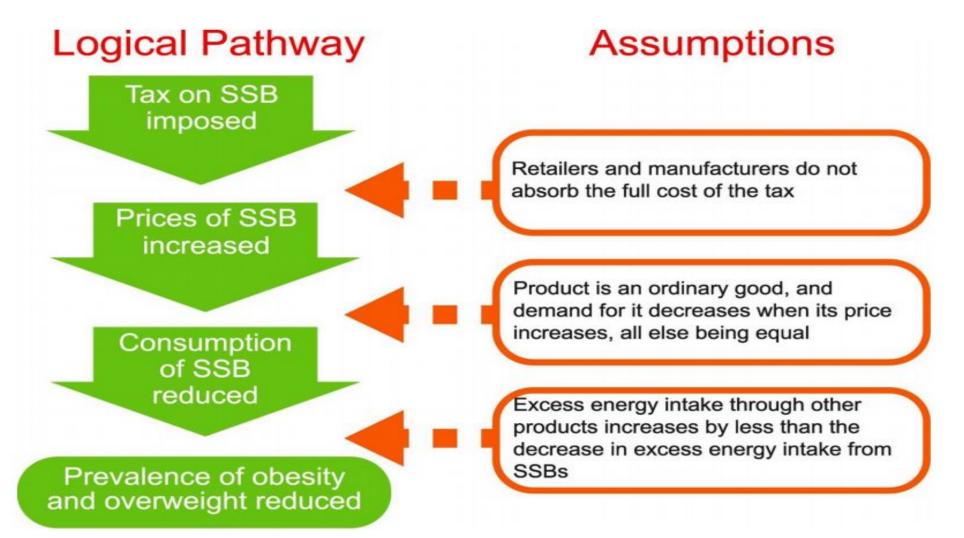






Impact of Taxes on Reduction of Obesity





Impact of Taxes on Reduction of Obesity

S#	Country	Study Method	Impact
1	India 2014	Modeling	20 % tax leads to 3% reduction in obesity and overweight and 1.6% reduction in type 2 diabetes.
2	South Africa 2014	Modeling	20 % tax leads to 3.8% reduction in obesity prevalence in men and 2.4% reduction in women
3	Australia 2016	Modeling	20 % tax leads to 2.7% reduction of obesity in men and 1.2% in women. Increase in tax revenue of A\$400 million annually
4	United Kingdom 2013	Modeling	20% tax reduced 2.2% of obesity and overweight in adults Increase in tax revenue of £276 million annually
5	Ireland 2013	Modeling	10% tax leads to 1.3 % reduction in obesity and 0.7% overweight

Ref: Effectiveness of obesity prevention and control, ADB Institute 2017, N 654

Taxes Comparison- Pakistan vs Other Countries

India

28% GST 12% Goods & Services tax

Bangladesh

40% total tax

Norway

3.34 NOK per litter sugary drinks
20.32 NOK pee litter on concentrates

United Kingdom

£0.18/litter on drinks with >5 grams sugar/100ml £0.24/litter on drinks >8 grams sugar/litter

Pakistan

11.5% FED 1% Sales tax

Ireland

€0.20/litter on drinks with >5 grams sugar/100ml €0.30/litter on drinks >8 grams sugar/litter

Saudi Arabia

100% excise on energy drinks
50% on sweetened drinks

Bahrain

100% excise tax on energy drinks
50% on aerated drinks

Qatar

100% excise on energy drinks
50% on sweetened aerated drinks

Ref: Global Food Research Program – University of North Carolina: August 2020

Pakistan's Sugary Drink Market - 2018

- Carbonated drinks: 4426 million liters with value of PKRs 387 billion
- Energy drinks: 224 million liters with value of PKRs 58.7 billion
- Juices: 733 million liters and value of PKRs 79 billion
- Carbonated drinks are forecasted to grow at a Compounded Annual Growth Rate (CAGR) of 7.3%
- Energy drinks are forecasted to grow @CAGR +14.6%
- Juice industry is growing with 20% value and 7% volume
- With current trends and CAGR, the juice industry will become 199 billion value with 1 billion liters of sale in 2023

Sugary Drinks - Impact of Taxation on Revenue

Catagony	Value in PKR (billion)	Additional FED				Volume	Surcharge/Levy (per litter) in PKR billion			
Category		3%	5%	7%	10%	(M Litters)	4	6	8	10
Carbonated Drinks	387	11.61	19.35	27.09	38.7	4426	17.704	26.556	35.408	44.26
Energy drinks	58.7	1.761	2.935	4.109	5.87	224	0.896	1.344	1.792	2.24
Juices	79	2.37	3.95	5.53	7.9	733	2.932	4.398	5.864	7.33
Total	524.7	15.74	26.24	36.73	52.47	5383	21.532	32.298	43.064	53.83

Summary of Key Messages

- Obesity and overweight is a new health crisis in Pakistan.
- Obesity is a gate way to non communicable diseases.
- Sugary drinks, junk food and lack of physical activity are major causes for obesity.
- Intake of sugary drinks is significantly associated with weight gain, obesity, diabetes, heart diseases and other NCDs.
- A child's risk of becoming obese increases by 60% with each additional sugary beverage consumed daily.
- Increased taxation/surcharge on sugary drinks can generate more than PKRs 100 billion revenue annually.
- Policy makers should raise taxes and surcharge/levy on sugary drinks.
- Say no to sugary drinks and junk foods.

Thank you







