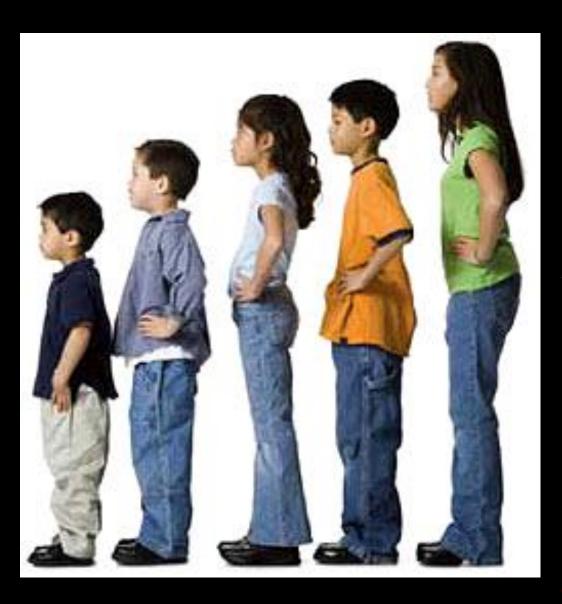


# ADOLESCENCE PERIOD OF STORM and STRESS

Fr. Dr. Jose John CMI
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The period of transition from childhood to adulthood is called Adolescence. Period of rapid growth after infancy. It usually lies **between 13 - 19** 

- Adolescence is a crucial period in a woman's life.
- •Health and nutritional status during this phase is critical for the physical maturity, which in turn influences the health of the offspring.
- •It is seen that the rate of low birth weight, prematurity and neonatal and infant mortality is high among children born to malnourished adolescent girls.

- ✓ **Adolescents** constitute 21.2 per cent of the total population of India, where malnutrition is an important public health problem among children and adolescents.
- ✓ Adequacy of dietary intake in terms of <u>calorie</u> and <u>protein</u> are important in order to improve the chances of child survival and safe motherhood.



# PHYSIOLOGICAL CHANGES

Nutritional needs high, emotional, intellectual and social changes in peculiar way

Rate of growth increases. For girls 8-13, boys 10-15

**Sexual development starts.** 

Boys gain more muscular tissues than girls.

# **PSYCOLOGICAL CHANGES**



Can do anything to look better or improve appearance and performance is important for them.

They like to spend more time with friends as compared to family and peer opinions become most significant.

# EATING PATTERNS..

Skip lunch more often than breakfast.

Derive their energy from snacks.

In nutrition boys are better than girls.

Girls may restrict food intake and this causes thinness.



Girls label many foods as fattening. Comparatively better economic status girls, the intake fell short of requirement, which could be attributed to the concern for maintaining a slim look. Consuming large quantities of soft drinks and salty kit-bits which reduce appetite are common. Some teenagers begin to obtain a significant portion of their total calories in the form of alcohol.



# ENERGY NEEDS:

Both boys and girls have different energy needs.

It depends on the level of physical activity performed by them.



#### **ENERGY NEEDS:**



- Boys need more energy as compared to girls.
- Boys need2500-2600cal/day

# **ENERGY NEEDS:**



# ENERGY NEEDS: PROTEIN



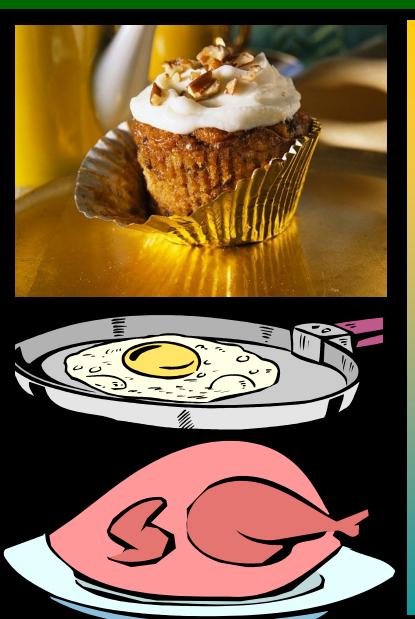


12-14% of calories should be from protein. It helps in meeting energy requirement.

It is needed for synthesis of new tissue or for tissue repair Intake should be 1gm/kg body weight

Rich sources are milk and milk products, egg, meat organs, pulses.

# ENERGY NEEDS FAT



It helps in meeting energy
It is stored in body as fuel and used during fast. 15-25% should in the diet.

It is of 2 types - <u>visible</u> and <u>invisible</u>.

Visible fat is present in oil, butter, ghee etc.

# **ENERGY NEEDS: CARBOHYDRATE**



60-65% should be in daily menu. Include more fiber cereals

# **ENERGY NEEDS: VITAMINS**

These are essential nutrients required by the body.

They can be comprised into water soluble and fat soluble vitamins.



# **ENERGY NEEDS: VITAMINS**

# Water Soluble Vitamins-(B-Complex Vitamin, Vitamin C.)

The need increases

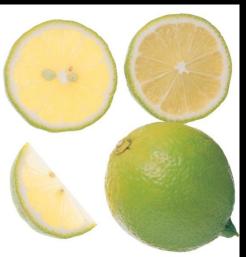
with increase in energy requirement.

B-Complex Vitamin is present in whole cereal and pulses, fruits & vegetable.

Vitamin C is present in citrus fruits & fresh leafy vegetables



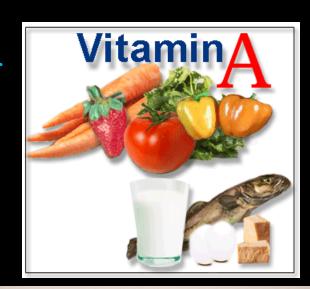




# ENERGY NEEDS: VITAMINS

# Fat Soluble Vitamin (Vitamin A, D, E, K)

Vitamin A is present in Green leafy vegetables like spinach and yellow or orange fruits like papaya, mango. It is needed for good vision.



Vitamin D, E, K also present in the above is needed for healthy bones, teeth & clotting of blood.



# **ENERGY NEEDS: MINERALS**

# Calcium



Calcium is a vital nutrient during high growth periods. Bone growth demands calcium. It helps in bone / skeletal formation

Rich sources are milk and milk products, green leafy vegetables, dry fruits.

<u>Calcium Deficiency may cause</u>
<u>osteoporosis later in their life.</u>

# PHYSICAL ACTIVITY



It helps in maintaining the structure and strength of bone throughout life.

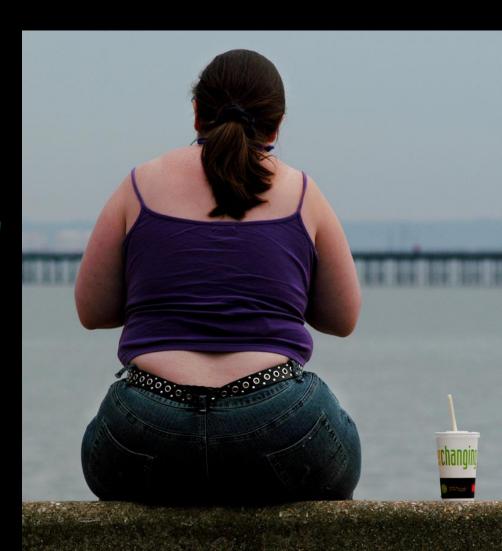
- >Obesity
- >Over eating
- >Lack of exercise
- > Family habit
- > Emotional stress
- >Hormonal imbalance



# 1. OBESITY

It is mainly due to lack of exercise, family habits, emotional stress and hormonal imbalance.

It may lead to high blood pressure.



# 2. Eating Disorders

(a) Anorexia Nervosa

The adolescent is extremely thin but considers himself / herself as fat. They start skipping meals to loose weight. The common symptoms are nausea, vomiting and constipation.

(b) Bulimia nervosa

First they overeat & then become guilty / worried about gaining weight. To remain thin they induce vomiting.

# WRONG FOOD HABITS

# 1. Irregular Meals and Snacking



Perceive themselves as too busy to worry about food, nutrition, meal planning or eating well.

Form negative association with healthy foods and positive association with junk foods.

# WRONG FOOD HABITS

#### 2. Fast Food and the Media



Eating fast foods is popular with busy and media influenced adolescents. Fast foods include. Milkshakes, Burger, Junk foods and foods from vending machines, self-service restaurants, which mostly provide nonnutritious food.

# CARBOHYDRATE

Vitamins

Protein

Fat

Fiber

Water

Energy

Mineral

In appropriate amount & proportion

# IF TAKEN BALANCED MEALS REGULARLY,

**Alertness** Energetic Inquisitive **Enthusiastic** Happy Moods **Normal Growth Optimistic Thinking More Concentration** 

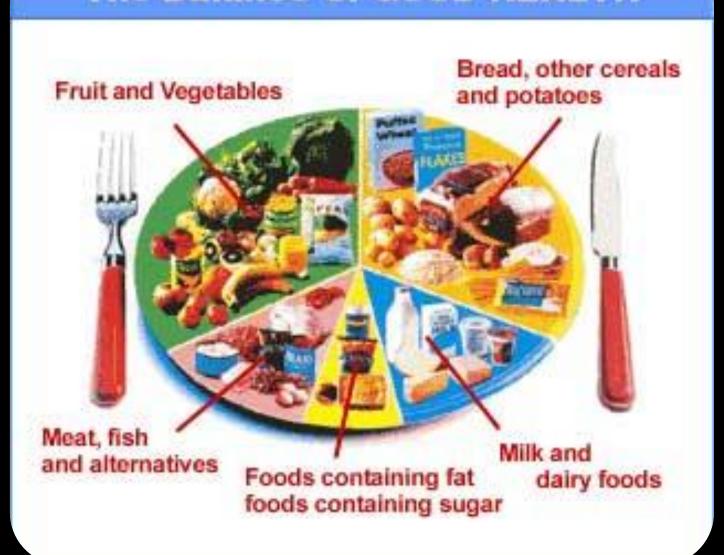


IF TAKEN UNBALANCED, ERATIC MEALS FREQUENTLY,

Obesity Delinquent Aggressiveness Poor Concentration Destructive Behavior Agitated Mood Swings Pessimistic Criminal Tendency Underweight Health Disorder Hyperactive



#### The Balance Of GOOD HEALTH



#### FOOD HABITS

Having 3 proper meals and 2 small nutritional snack, at proper timing and with family is important.

One should include variety in food to ensure inclusion of all essential nutrients in all the meals.



3-4 cups of toned /
skimmed / double toned
milk (i.e. Remove cream
from milk) to ensure
intake to protein, calcium
and some vitamins.



5 or more servings of fresh frozen, dried, raw or cooked fruits and /or vegetables.

Mostly yellow, orange or dark green.

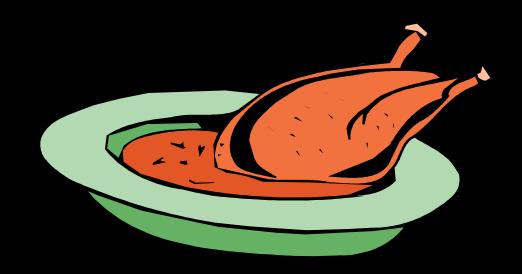


6-11 servings of grains, breads and cereals (preferably whole grains) to meet energy needs.

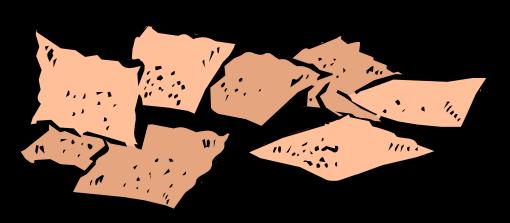




2 serving of pulses or lean meat.

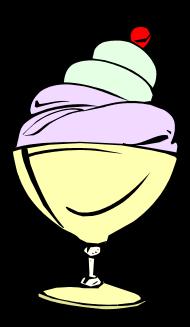


2-3 tsp (1Ø-15 gm) of oil, 2-3 tsp (1Ø-15 gm) of sugar.



Small amount of fried food and sweet products like pakora, samosa, kachori, pastry, patty, candy, cookies or desserts.





- > A well balanced nutritious food should be taken to prevent obesity or under nutrition.
- Adolescent girl should take calcium rich food to increase bone density.
- Skipping of meals should be avoided.

  Avoid empty calorie foods.

Iron rich food should be included to taken to support growth spurt.

Include fruits and vegetable in diet to meet vitamins, minerals and fiber.

More homely vegetables and fruits should include in diet.

Intake lots of water, 8 to 10 glasses daily Table salt should be avoided.

Eating well balanced diet rather than watching calories especially when you are young and growing up.

Maintain adequate exercise.



**Develop good** eating habits including a variety of healthy meals and keeping higher fatty foods to an occasional treat along with regular activity

When you feel good you look good... So focus on health more than numbers



# Do not waist food

# Typical Height and Weight Charts cm - kg

#### **Height and Weights for Teen Boys**

Age Range	Height	Weight
12-13 years	145-155 cm	39-45 kg
14-15 years	158-165 cm	48-57 kg
16-17 years	168-175 cm	59-68 kg
18-20 years	170-175 cm	68-73 kg



# Typical Height and Weight Charts cm - kg

Height and Weights for Teen Girls			
Age Range	Height	Weight	
12-13 years	150-158 cm	43-48 kg	
14-15 years	158-160 cm	48-52 kg	
16-17 years	160 cm	52-55 kg	
18-20 years	160 cm	57-59 kg	

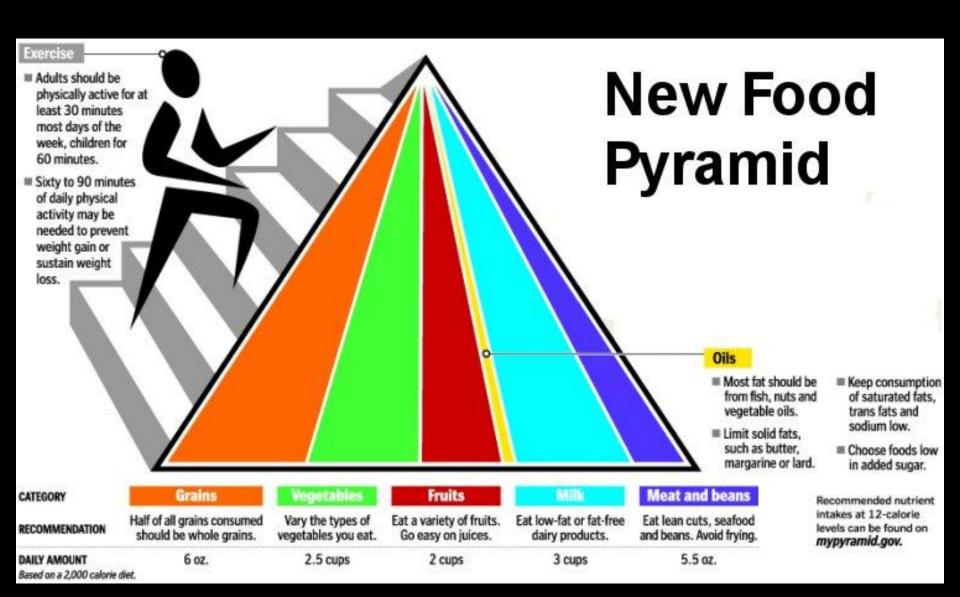


# The New Food Pyramid

The New Food Pyramid is a tool to educate people to eat a more balanced diet from a greater variety of food portions without counting calories.

The USDA has now expanded the four food groups to six groups and expanded the number of servings to meet the calorie needs of most people.

# The New Food Pyramid



If you eat wrongly no doctor can cure

If you eat rightly no doctor is needed

EAT WELL ... ENJOY LIFE

# Thank Your Sod Bless You

