Cauvery College for Women (Autonomous)

Nationally Accredited (III Cycle) with 'A' Grade by NAAC Annamalai Nagar, Tiruchirappalli-18.



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Designation : Assistant Professor

Department : Food Service Management and Dietetics.

Programme : B.Sc Nutrition and Dietetics.

Batch : 2016-2017 Onwards

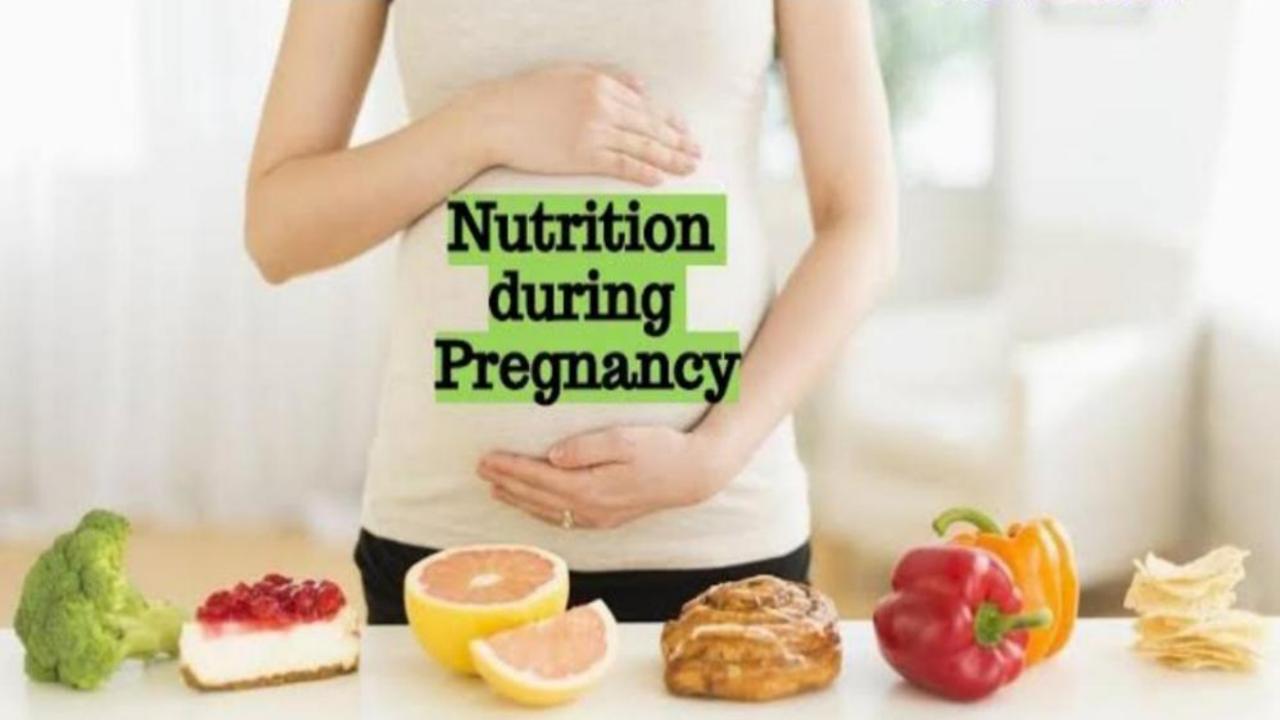
Semester : IV

Course Title : Nutrition Through Life Cycle

Course code : 16SCCND4

Unit : I

Topic covered : b. Nutrition During Pregnancy.





PREGNANCY ***



A typical pregnancy lasts 40 weeks from the first day of your last menstrual period (LMP) to the birth of the baby. It is divided into three stages, called trimesters: first trimester, second trimester and third trimester. The fetus undergoes many changes throughout maturation.

STAGES OF DEVELOPMENT



PERTILIZED EGG



3 DAY



2 MONTHS



6 MONTHS



3. DAY



4 DAY



3 MONTHS



7 MONTHS



S.S DAY



BLASTOCYST



& MONTHS



B MONTHS



E DAY



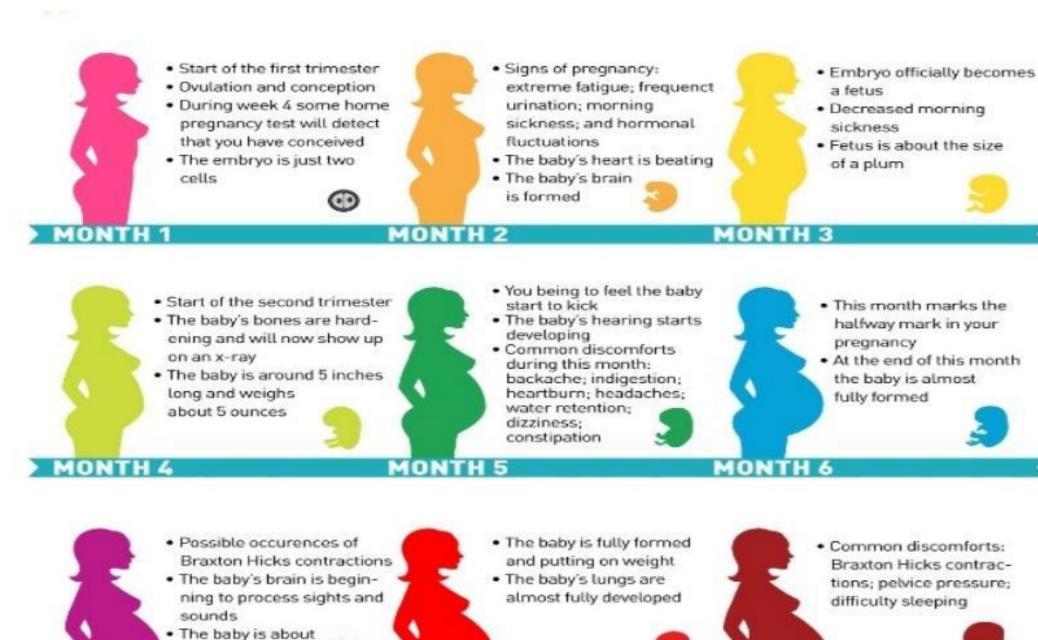
3.MONTH



5 MONTHS.



9 MONTHS

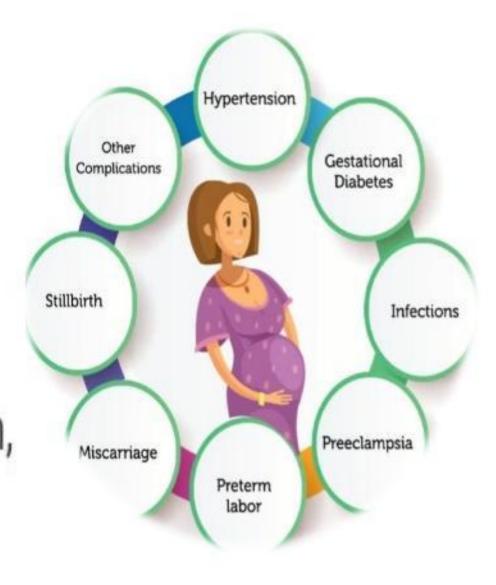


MONTH 7 MONTH 8 MONTH 9

13 inches long

MOST COMMON COMPLICATIONS

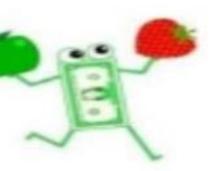
Most common pregnancy related complications can be miscarriage, ectopic pregnancy, hypertension and diabetes in pregnancy, preterm labour, poor fetal growth, preterm rupture of membranes, obstetric cholestasis and low placenta. Jun 22, 2016



Complications of Pregnancy that may Impact Nutritional Status

- Nausea and Vomiting
- Constipation
- Food safety -food borne illness (high risk getting sick from eating unsafe food)
 - Pregnant mother have low ability to fight off infection.
 - Unborn baby's immune system is not fully developed
 - Increase risk of miscarriage or premature delivery





Energy Requirements During Pregnancy

- Additional Energy Needs for Normal Weight Women:¹
 - 2nd trimester + 360 kilocalories
 - 3rd trimester + 470 kilocalories
 - Lactation + 500 kilocalories
 RNI 2005
- Different Energy requirement for differences in age, body size, pre-pregnancy weight and lifestyles.¹



The First Trimester

- A time of rapid cell division, organ development, and preparation for the demands of rapid fetal growth that occur during 2nd and 3rd trimester
- Critical nutrients during this phase include:
 - Protein
 - Folic acid
 - -Vitamin B₁₂
 - -Zinc



The 2nd and 3rd Trimesters

- Energy intake is especially important since 90% of fetal growth occurs during the last half of gestation.
- Critical nutrients during this phase include:
 - Protein
 - Iron
 - Calcium
 - Magnesium
 - B vitamins
 - Omega-3 fatty acid, docosahexaenoic acid (DHA)



Food to avoid

- Raw or unpasteurized milk
- Raw or partially cooked eggs
- Undercooked meat and poultry
- Raw or undercooked fish or shellfish
- Mercury can harm the developing nervous system in an unborn child or young baby.
 - Choices that are lower in mercury include salmon, tilapia, trout, pollock, and catfish.
 - Avoid eat fish high in mercury like shark, swordfish, tilefish, and King mackerel.

CONCLUSION



- Pregnant mother are encourage to get a balance diet to ensure sufficient nutrients for fetal growth and development.
- Those extra nutrients that essential included extra energy, protein (iron, zinc), healthy fat (omega-3 fatty acids), variety vegetables and fruits (folate, vitamin B, vitamin C) milk (calcium) and adequate fluid intake
- Reduce unhealthy food choices such as high refined sugar beverage/ foods (empty nutrients dense calorie), high saturated fat (deep-fried foods, coconut milk) and salty foods (processed, preserved and canned foods)

"Thank You"