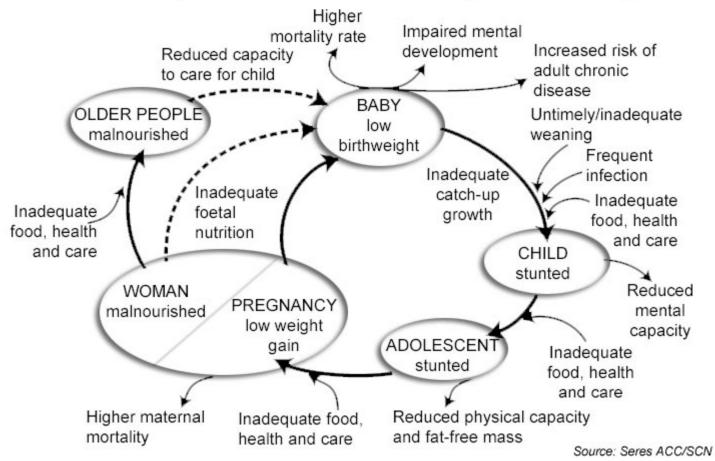
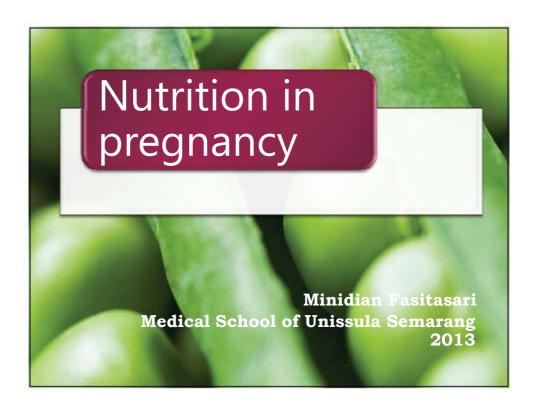
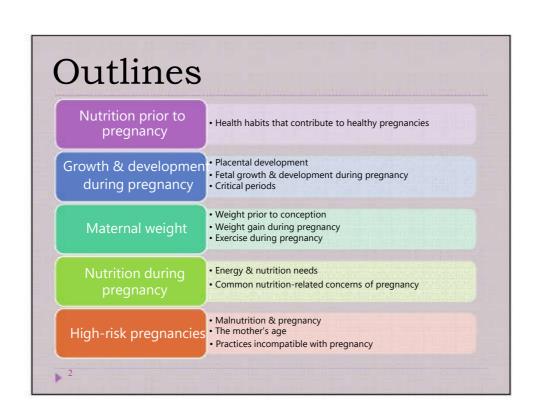
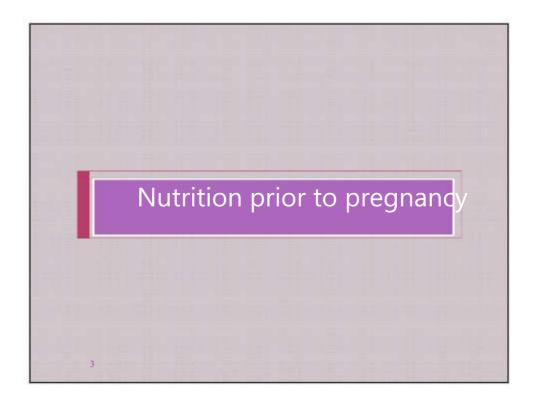
Impact of hunger and malnutrition throughout the life cycle

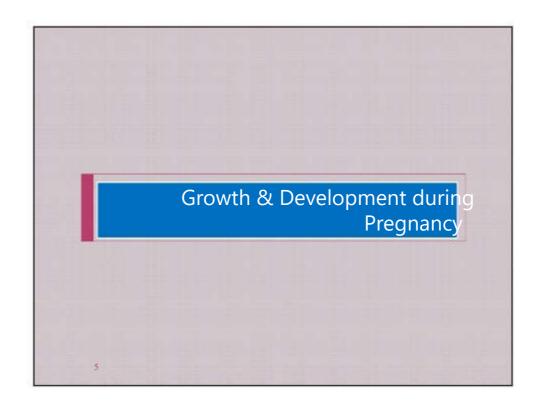


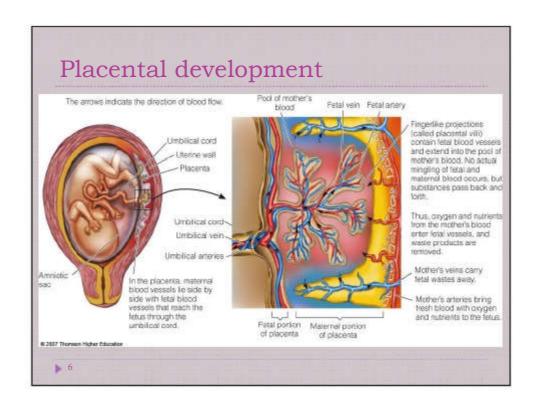


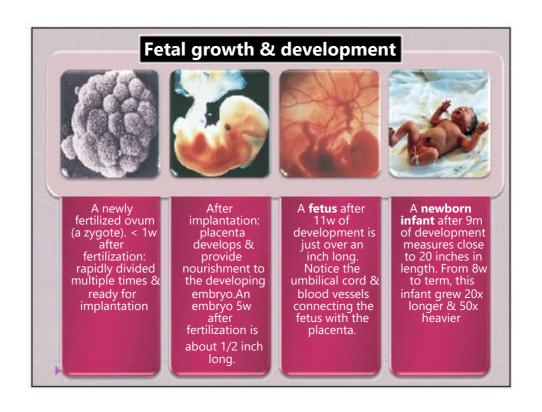


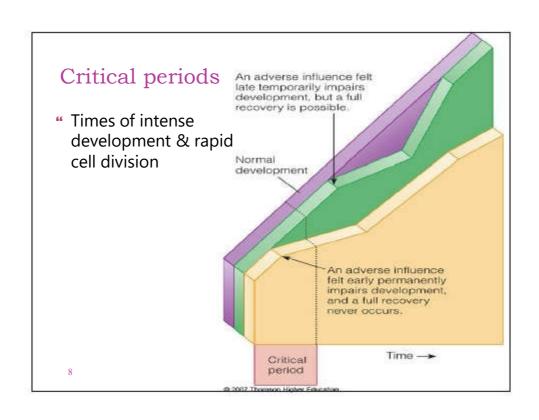


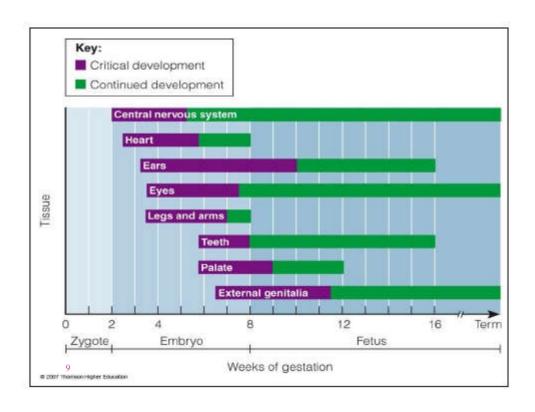




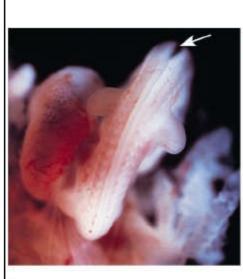


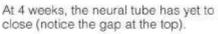






Neural tube defects " Factors: " Previous pregnancy with neural tube defects " Maternal diabetes " Maternal use of antiseizure medications " Maternal obesity " Folateupplementation reduces the risk

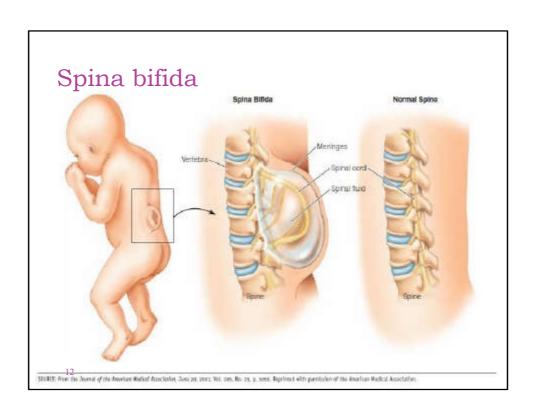




At 6 weeks, the neural tube (outlined by the delicate red vertebral arteries) has successfully closed.

2007 Thomase Higher Education

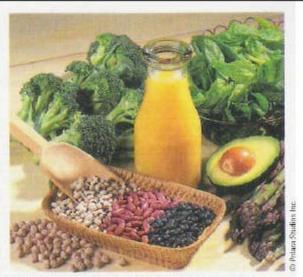
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Folate suplementation

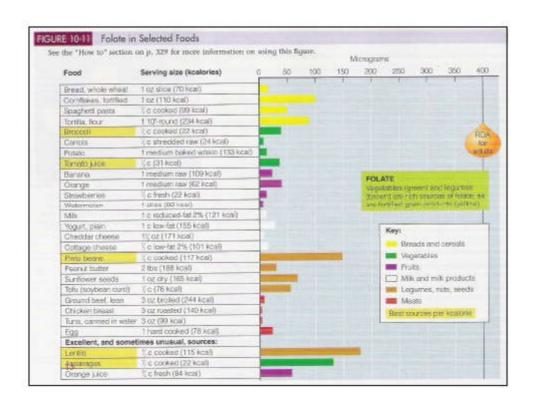
- Reduces risk of neural tube defects
- Many fortified grains
- Those who have previously given birth to a child with a neural tube defect may be prescribed a 4 milligram daily supplement.

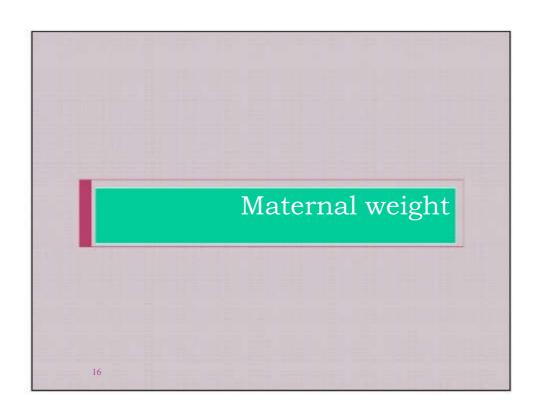
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Leafy dark green vegetables (such as spinach and broccoli), legumes (such as black beans, kidney beans, and black-eyed peas), liver, and some fruits (notably citrus fruits and juices) are naturally rich in folate.

14

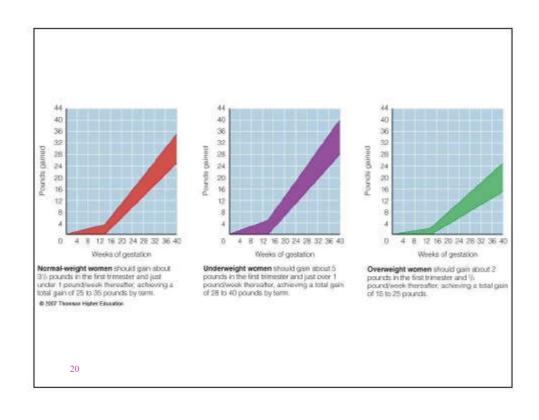


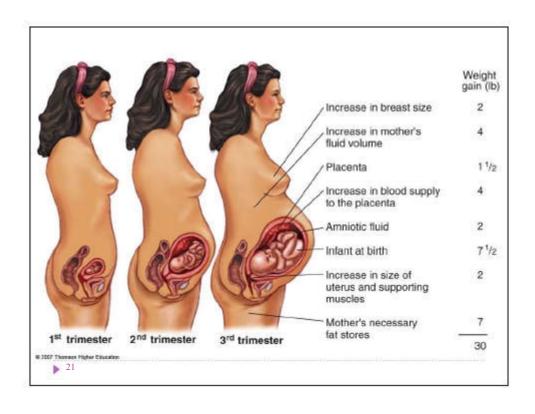


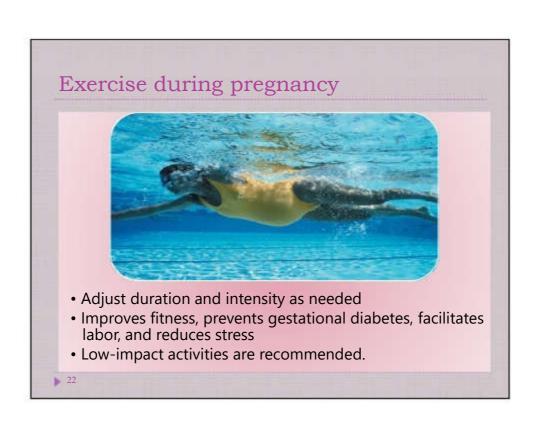
Maternal Weight " A mother's weight prior to conception & weight gain during pregnancy → influence birthweight. " Higher birthweights present fewer risks for infants. " Lower birthweights present more problems.

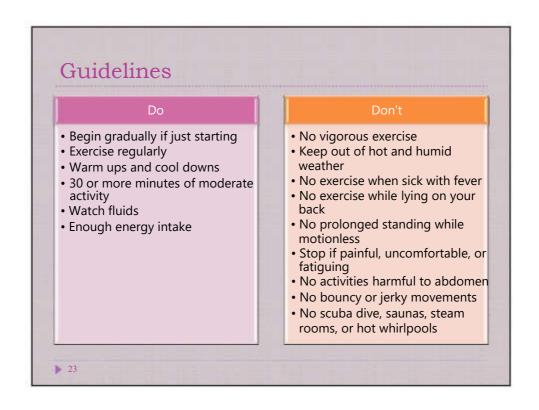
Weight prior to conception Underweight • Tend to have lower birth • Tend to be born post weight babies term (>42 weeks) Higher rates of preterm • Tend to be greater than 9 (premature < 38 weeks) infants & infant deaths pounds at birth (macrosomia) • More difficult labor and delivery, birth trauma, and cesarean sections Higher risk for neural tube defects, heart defects and other abnormalities 18

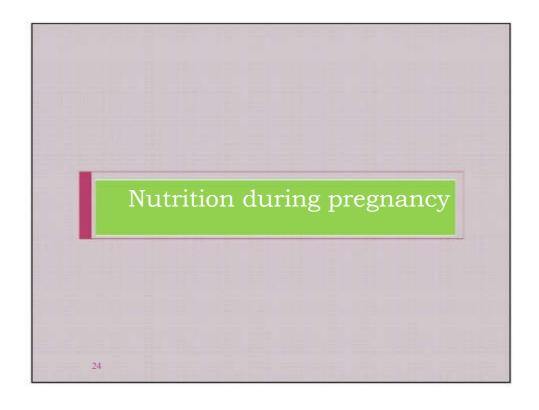
Recommended Weight Ga	ains	
Prepregnancy Weight	For single birth	For twin birth
Underweight (BMI <18.5)	28 to 40 lb (12.5 to 18.0 kg)	Insufficient data to make recommendation
Healthy weight (BMI 18.5 to 24.9)	25 to 35 lb (11.5 to 16.0 kg)	37 to 54 lb (17.0 to 25.0 kg)
Overweight (BMI 25.0 to 29.9)	15 to 25 lb (7.0 to 11.5 kg)	31 to 50 lb (14.0 to 23.0 kg)
Obese (BMI ≥30)	11 to 20 lb (5.0 to 9.0 kg)	25 to 42 lb (11.0 to 19.0 kg)
Weight-Gain Patterns		

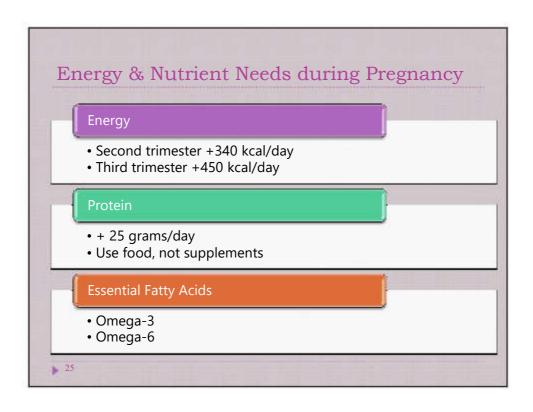


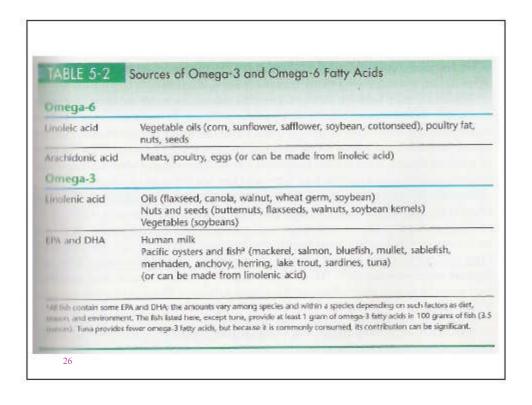


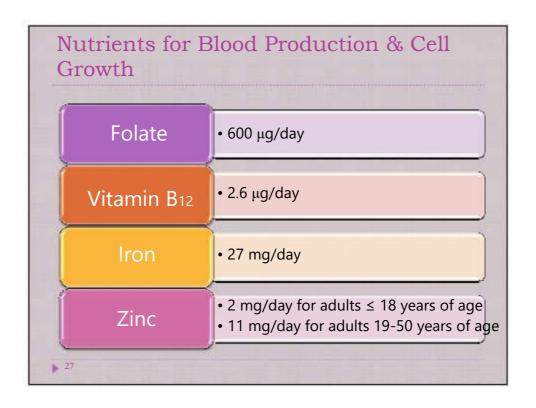


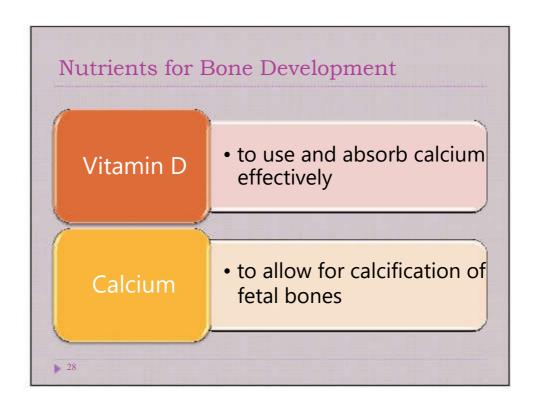


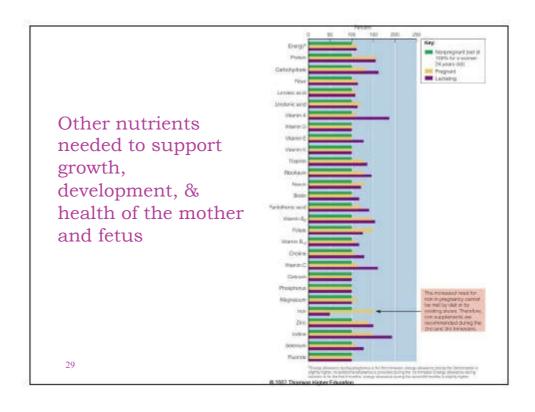




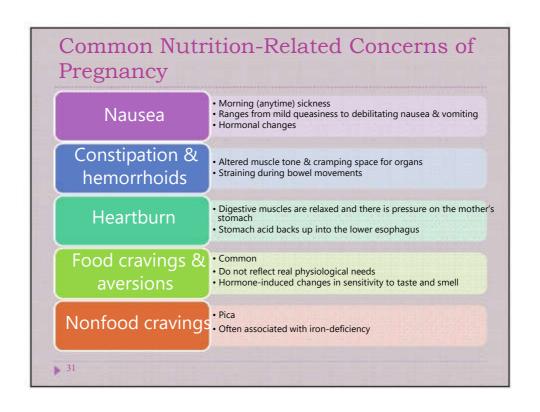


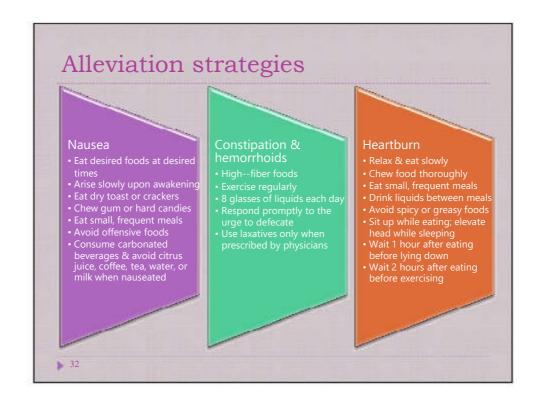


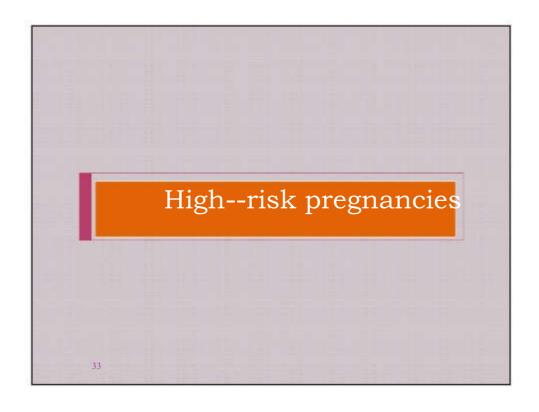






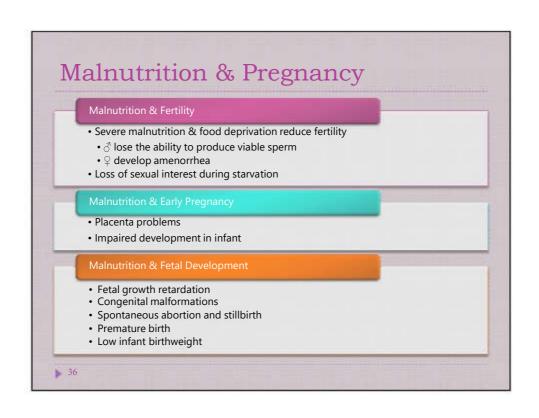






Factor	Condition That Raises Risk
Maternal weight	
 Prior to pregnancy 	Prepregnancy BMI either <18.5 or ≥25
 During pregnancy 	Insufficient or excessive pregnancy weight gain
Maternal nutrition	Nutrient deficiencies or toxicities: eating disorders
Socioeconomic status	Poverty, lack of family support, low level of education, limited food available
Lifestyle habits	Smoking, alcohol or other drug use
Age	Teens, especially 15 years or younger; women 35 years or older
Previous pregnancies	
Number	Many previous pregnancies (3 or more to mothers under age 20; 4 or more to mothers age 20 or older)
Interval	Short or long intervals between pregnancies (<18 months or >59 months
 Outcomes 	Previous history of problems
 Multiple births 	Twins or triplets
 Birthweight 	Low- or high-birthweight infants
Maternal health	
· High blood pressure	Development of gestational hypertension
 Diabetes 	Development of gestational diabetes
• Chronic diseases 34	Diabetes; heart, respiratory, and kidney disease; certain genetic dis- orders; special diets and medications





Mother's Age

Pregnancy in Adolescents

- Complications include iron-deficiency anemia & prolonged labor
- Higher rates of stillbirths, preterm births, & LBW infants
- Major public health problem & costly
- Encourage higher weight gains

Pregnancy in Older Women

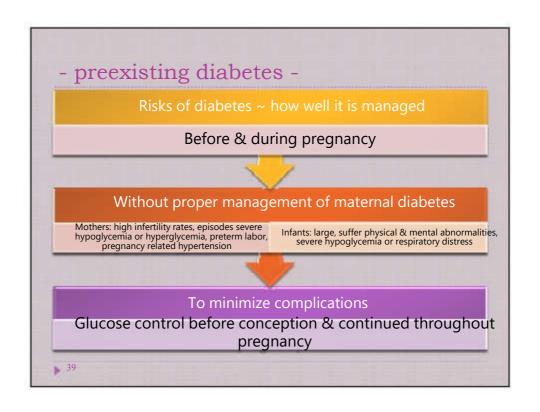
- Hypertension & diabetes
- High rate of birth defects – Down syndrome

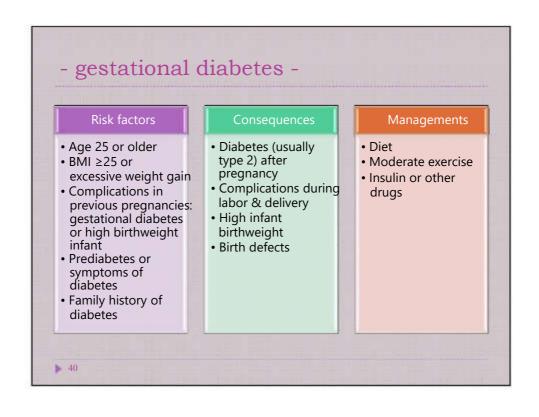
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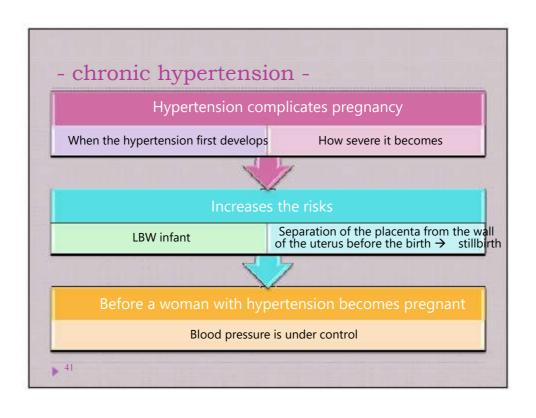
Maternal Health

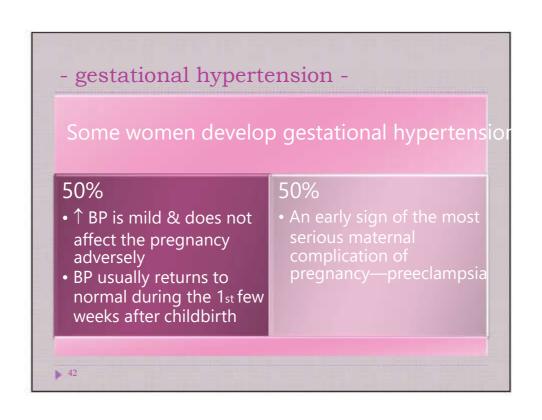
- " Medical disorders can threaten the life and health of both mother & fetus.
- " Diagnosed and treated early → many diseases can be managed to ensure a healthy outcome—another strong argument for early prenatal care.
- "The changes in pregnancy can reveal disease risks, making screening important & early intervention possible
- " Preexisting diabetes; Gestational diabetes; Chronic hypertension; Gestational hypertension; Preeclampsia

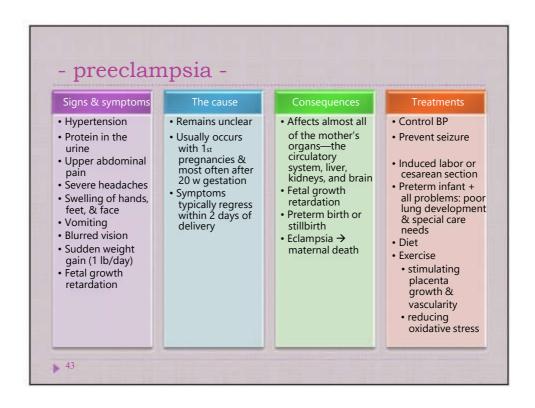
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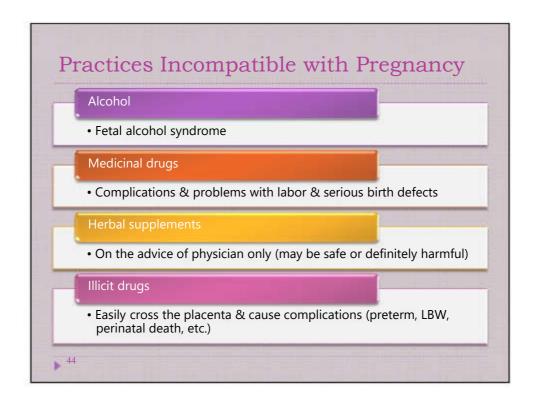












Practices Incompatible with Pregnancy... Smoking & Chewing Tobacco • Fetal growth retardation • Low birthweight • Complications at birth • Mislocation of the placenta • Premature separation of the placenta • Vaginal bleeding • Spontaneous bleeding • Fetal death • Sudden infant death syndrome (SIDS) • Middle ear diseases • Cardiac and respiratory diseases

