

433 Teams

OBSTETRICS & GYNECOLOGY

Post term pregnancy

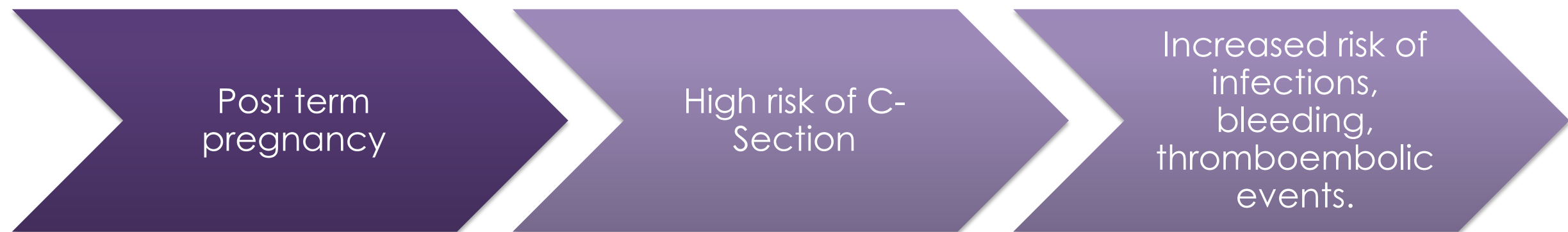


جامعة
الملك سعود
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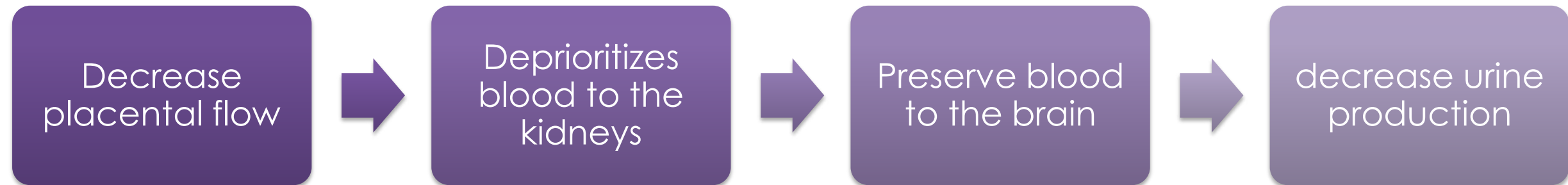
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- Post term pregnancy:
 - Is reaching or extending beyond 42 weeks of estimated gestational age.
- Estimated gestational age:
 - Is calculated 40 weeks past the first day of last menstrual period.
- Most common cause of Post term pregnancy:
 - Inaccurate estimation of gestational age.
 - Anencephalic fetus presentation
- Perinatal mortality is **2 to 3 times higher** in these prolonged gestations.
- Complications of post term pregnancy:



- Fetal complications of post term pregnancy:
 - **Macrosomia:** infant > 4.5 kg
 - Will increase the risk of operative vaginal delivery
 - Increased the risk of C-Section delivery
 - Increased risk of shoulder dystocia
 - **Post maturity syndrome:**
 - Related to the aging and infarction of the placenta
 - **Results in:**
 - Decrease fetus subcutaneous fat
 - Long fingernails.
 - Dry and peeling skin
 - Abundant hair
 - **Meconium aspiration syndrome:**
 - **Results in:**
 - Severe respiratory distress
 - Mechanical obstruction
 - Chemical pneumonitis

- Fetal complications of post term pregnancy:
 - Oligohydramnios:
 - Fetus always try to protect blood flow to the brain.



- Intrauterine fetal demise:
 - Increases after 41 weeks of EGA
- Interventions of post term pregnancy:
 - Accurate estimation of LMP
 - Membrane sweeping to help induce labor
 - Induction of labor should occur between 41-42 EGA

- **CASE:** A 35-year-old, G1P0 woman, presents to your office for a routine prenatal exam. She is 5 days past her due date that was determined by her last menstrual period and a second trimester ultrasound. While reviewing her chart, you note that she has gained 32 pounds during this uncomplicated pregnancy with 1/2 pound weight gain since last week's visit. Her BP is 110/65. She has no glycosuria or proteinuria. The fundal height measures 38 cm and fetal heart tones are auscultated at 120 bpm in the left lower quadrant. The fetus has a cephalic presentation and an estimated weight of 8 lbs.
- Just before you go into the room, your nurse pulls you to the side, and tells you, "She has a lot of questions!" Once you walk into the room, the patient expresses her disappointment that she has not had the baby yet. She assumed that she would be having the baby on her due date. She asks you about potential harm to her and the baby from going past her due date, and she would like to know her options.

1. **What would you tell this patient is the normal duration of pregnancy and what is the usual time for the onset of spontaneous labor?**

- The normal duration of pregnancy is 280 days (40 0/7 weeks) from the first date of the last menstrual period or
- **Preterm** pregnancy is defined as a gestational age less than 37 0/7 weeks
- **Early Term** pregnancy is defined as a gestational between 37 0/7 weeks and 38 6/7 weeks
- **Full Term** pregnancy is defined as a gestational age between 39 0/7 weeks and 40 6/7 weeks
- **Late Term pregnancy** is defined as a gestational age between 41 0/7 weeks and 41 6/7 weeks
- **Post term** pregnancy is defined as a gestational age of 42 0/7 weeks or greater
- In the United States, approximately 12% of pregnancies deliver preterm
- Approximately 80% of pregnancies are delivered at a “term” gestation
- Post term pregnancy is estimated to have an incidence of 6%
- Accurate gestational age assignment with first trimester ultrasound results in a decreased incidence of post term pregnancy

2. What are the risks associated with post term pregnancy?

– Antenatal concerns:

- Macrosomia: estimated prevalence of 25% in prolonged pregnancy
- Post maturity syndrome
- Oligohydramnios
- Perinatal death: rate increases steadily after 37 weeks, approaching 1 in 300 at 42 weeks.

– Intrapartum concerns:

- Labor dystocia
- Infant birth trauma
- Maternal perineal trauma
- Cesarean delivery
- Postpartum hemorrhage
- Meconium passage

– Neonatal concerns:

- Meconium aspiration syndrome
- Hypoglycemia
- Hyperbilirubinemia

3. What are the features of post maturity syndrome?

- Although the true incidence of the fetal post maturity syndrome is unknown, it has been estimated to occur in 10% of pregnancies between 41 and 43 weeks.
- The syndrome results from placental insufficiency due to aging and infarction.
- Typical features of post maturity syndrome include:
 - Loss of subcutaneous fat resulting in a long
 - Thin body
 - Long fingernails
 - Dry, peeling, wrinkled skin
 - Abundant hair
- Post mature infants have an increased risk of perinatal mortality, as compared to other post term infants.

4. What management plan would be appropriate for this patient?

– Labor Induction:

- Appropriate at 41 0/7 weeks regardless of cervical status
- Is associated with a decreased risk of perinatal mortality, cesarean delivery, and cost
- Pre-induction cervical ripening maybe required if the cervix is unfavorable

– Expectant Management:

- Should include antenatal testing beginning between the 41 and 42 weeks
- Induction is indicated if there is evidence of non-reassuring fetal testing
- Expectant management should be pursued no longer than 43 weeks, and only with antepartum testing

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