

- 1. Explore the Pregnancy!
- 2. Pregnancy Dating pregnancy wheel
- 3. Obstetrical History Antenatal 1 and 2 forms
- 4. Labs
- 5. Physical Exam
- 6. Genetic Screening and Testing
- 7. Diagnostic Imaging

**Module 13: Objectives/ Topics** 

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### Feelings

- · How do you feel about being pregnant?
- How do you feel about the new baby?

#### **Impressions**

What are your ideas about where to go from here?

### **Functioning**

- How does the pregnancy effect your every day life?
- What sort of supports do you have?

### Expectations

- How can I help?
- · How can we work together?

### **Patient Centered Model**

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Very accurate – both urine and serum will become positive within 7-10 days of conception
An accurate predictor if negative pregnancy test followed within 2 weeks by a positive test



**Positive Pregnancy Tests** 

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### **GTPAL TPAL describes the "para"**

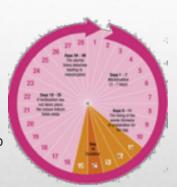
Gravida/ Term-Preterm-Abortion-Living

- G = number of pregnancies, including the current one
- T = number of term pregnancies, terminating after 36 weeks gestation
- P = number of premature pregnancies terminating 20 36 weeks gestation
- A = number of aborted pregnancies terminating before 20 weeks gestation (spontaneous or therapeutic)
- L = number of living children

## **Terminology**

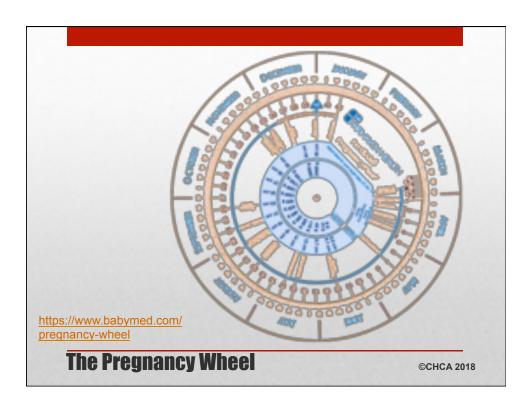
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- "Gold standard" if normal flow & frequency
- Disadvantages:
- Patients do not always remember LNMP (especially when presenting late for care)
- May be mistaken for implantation bleeding
- May be difficult to determine for Depo users
- With BCPs, first ovulation after cessation of BCPs is frequently delayed from 2-6 weeks



**Last Normal Menstrual Period** 

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# Why is this important?

- Enables expectant mother, family, and provider to know when to expect onset of labor
- Assessment and management of preterm labour, IUGR, postdates, and PROM
- Scheduling various diagnostic testing or procedures, including Glucose Tolerance, IPS amniocentesis, C-section, or induction of labour
- Ongoing management of maternal diseases (ie. DM, HTN, PIH, renal disease)

## **Gestational Age Assessment**

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- Incorrect recall of LMP
- Irregular menses
- Incorrect measurement of ultrasound images
- · Late registration for prenatal care
- Inaccurate home pregnancy test
- Molar gestation
- Conception during amenorrhea
- Uterine fibroids or pelvic masses
- Multiple gestation
- · Implantation bleeding
- Obesity
- · Conception during or after BCPs or Depo
- · Incorrect estimation of uterine size

## **Common Causes of Gestational Dating**

Inaccuracies -- *Early Pregnancy* 

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 The 2017 update to the Ontario Perinatal Record (OPR) is a partnership between:



- Provincial Council for Maternal Child Health (PCMCH),
- Better Outcomes Registry & Network (BORN) Ontario,
- · Ontario Medical Association (OMA)
- · Association of Ontario Midwives (AOM).
- · Released October 2017
- · Major changes since 2005:
  - · Name: now called Ontario Perinatal Record (OPR)
  - · Added a formal postnatal care tool.
  - Form is one page longer to accommodate changes to prenatal screening, addition of mental health screening, and more discussion topics.
  - Terminology (both medical and social) has also changed since 2005
  - Respectful of gender identity, the terms "patient/client" are used to ensure inclusivity. Similarly, genetic risk is documented in terms of the gametes rather that "father" and "mother".

## **Ontario Perinatal Record (OPR)**

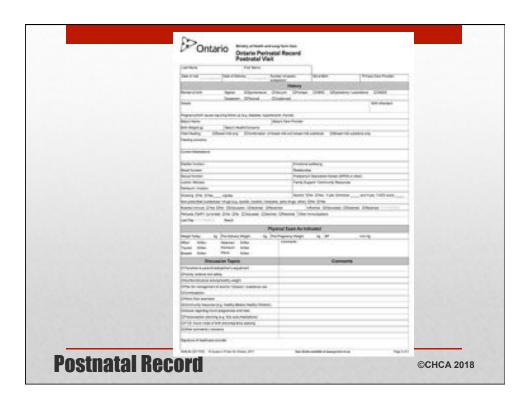
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- Gather and/or review history data....
  - · Go over history written on intake form
  - Clarify things
    - Types of drugs/meds taken since conception
    - · Any domestic violence history
    - · Family history of genetic disorders
    - Depression



History

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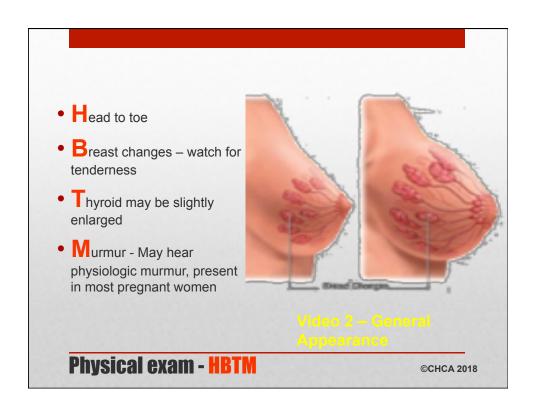


- Beck Depression Inventory
- Primary Care Evaluation of Mental Disorders Patient Health Questionnaire
- Center for Epidemiologic Studies Depression Scale
- · Edinburgh Postnatal Depression Scale

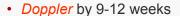
## **Depression Screening Tools**

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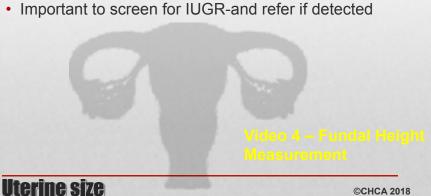
- Assume inaccurate dates if not audible by 12 weeks
- · place Doppler wand just above pubic symphysis and aim transducer downwards towards feet/spine
- Manual Fetoscope by 17-20 weeks
  - Rarely used today



## **Fetal Heart Tones**

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- From 18-35 weeks -- fundal height closely approximates gestational age in weeks (measure from top of symphysis pubis over the curve of uterus to most cephalic portion of fundus) -- less accurate after "lightening"
- Fundus generally reaches umbilicus at 20 wks.



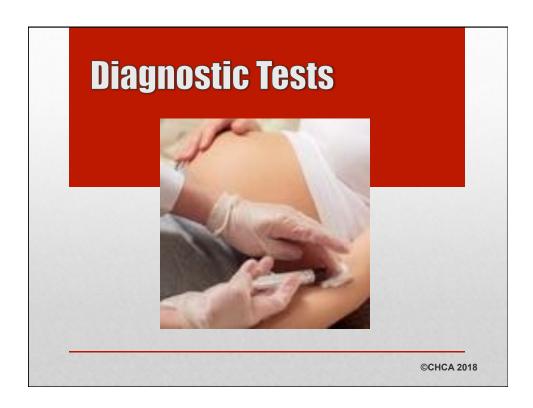
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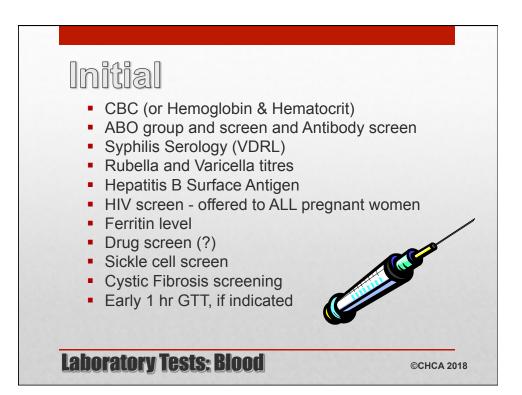




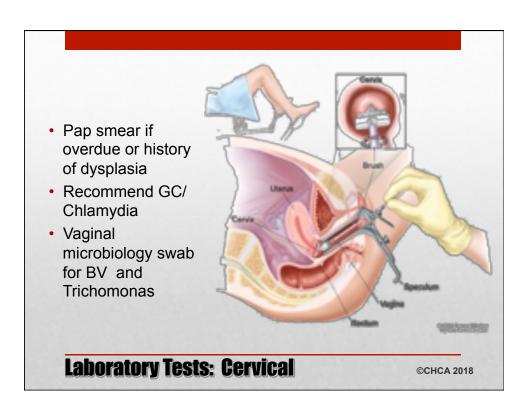
- Fetal malposition
- Fetal anomalies
- Polyhydramnios or Oligohydramnios
- Undiagnosed multiple gestation
- · IUGR or macrosomia
- Failure to record gestational milestones

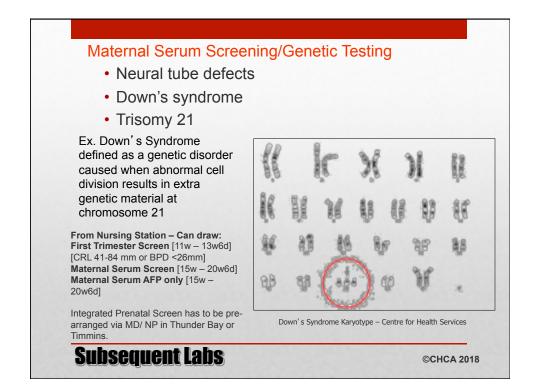
## Common Causes of Gestational Inaccuracies – High Risk- Late Pregnancy ©CHCA 2018

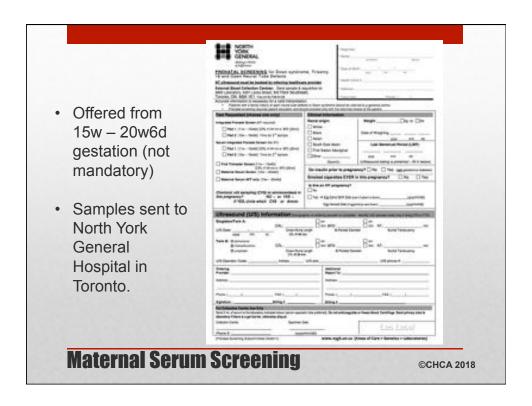










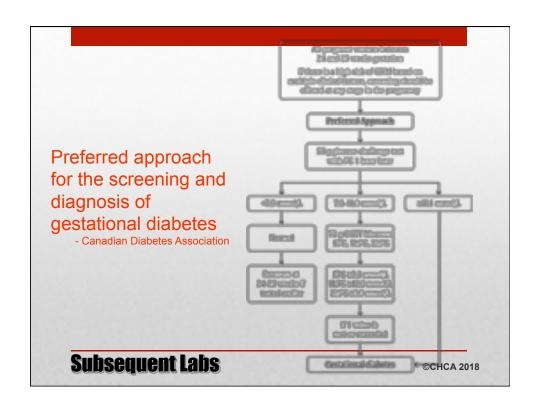


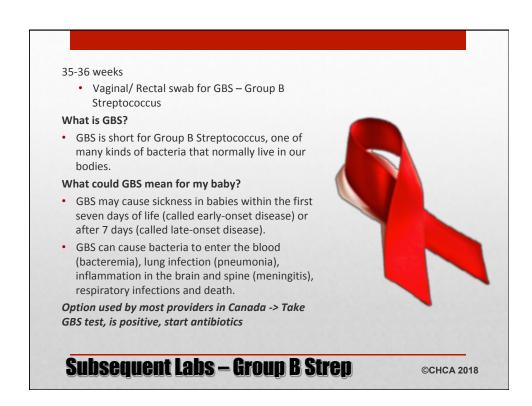
### At 24-28 weeks gestation:

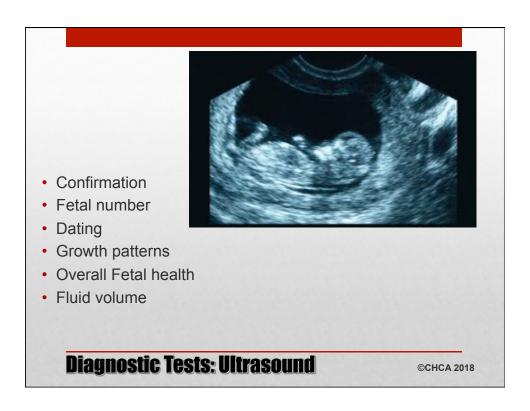
- CBC
- Ferritin
- Antibody/Indirect Coomb's on Rh negative women
  - if negative, consult for Rhogam order!
- 50 Gram, 1-hour OGTT
  - If necessary, proceed with 75 g OGTT, to make dx of gestational diabetes if values are:
    - Greater or equal to 5.3 mmol/L fasting, at one hour greater or equal to 10.6mmol/L and at two hours, greater or equal to 9.0 mmol/L

## **Subsequent Labs**

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Indicator	Appropriate Time	Accuracy	
LNMP	Entire Pregnancy	+/- 14.6 days	
Conception/ Ovulation	Entire Pregnancy	+/- 1 days	
Serum Preg Test Urine Preg Test	Before 4 weeks	7-10 days after conception	
Detection of FHT	Between 9-12 weeks	+/- 3 weeks	
Uterus at umbilicus	20 weeks	+/- 15 days	
Fundal Height	Between 18-35 weeks	+/- 13-19 days	
Quickening – primip	18-19 weeks	+/- 18 days	
Quickening – multi	16-17 weeks	+/- 18 days	