### MSS OB Case Presentation

February 17, 2016 Samantha Grein Wendy Brent Providence Hospital School of Diagnostic Medial Sonography

## Patient History

29 years old

G1

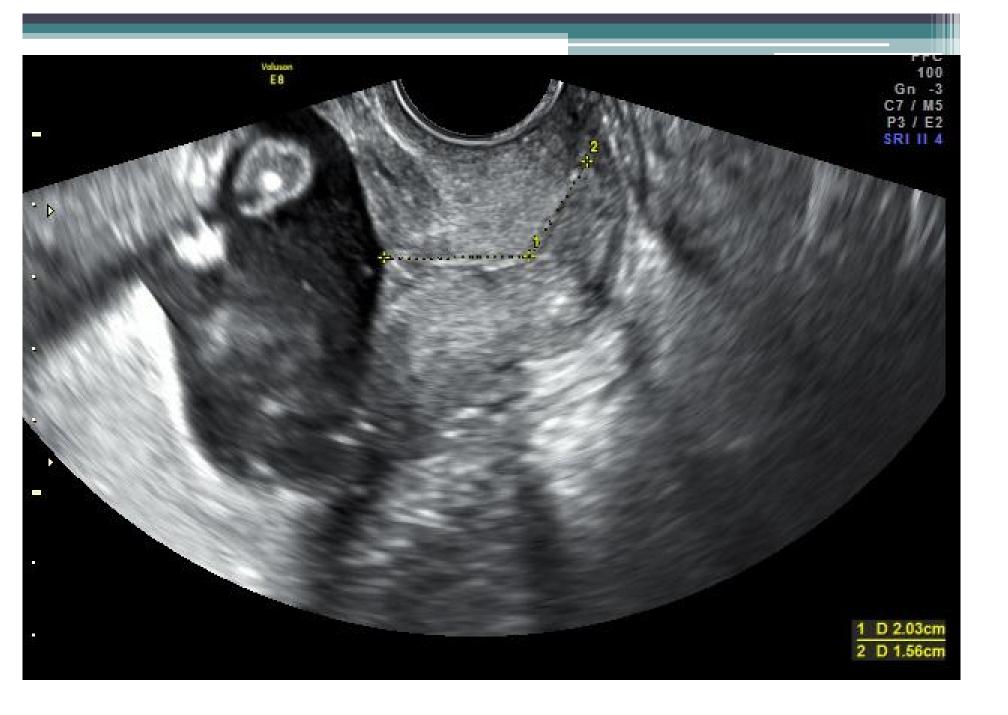
16 5/7 wks based on LMP

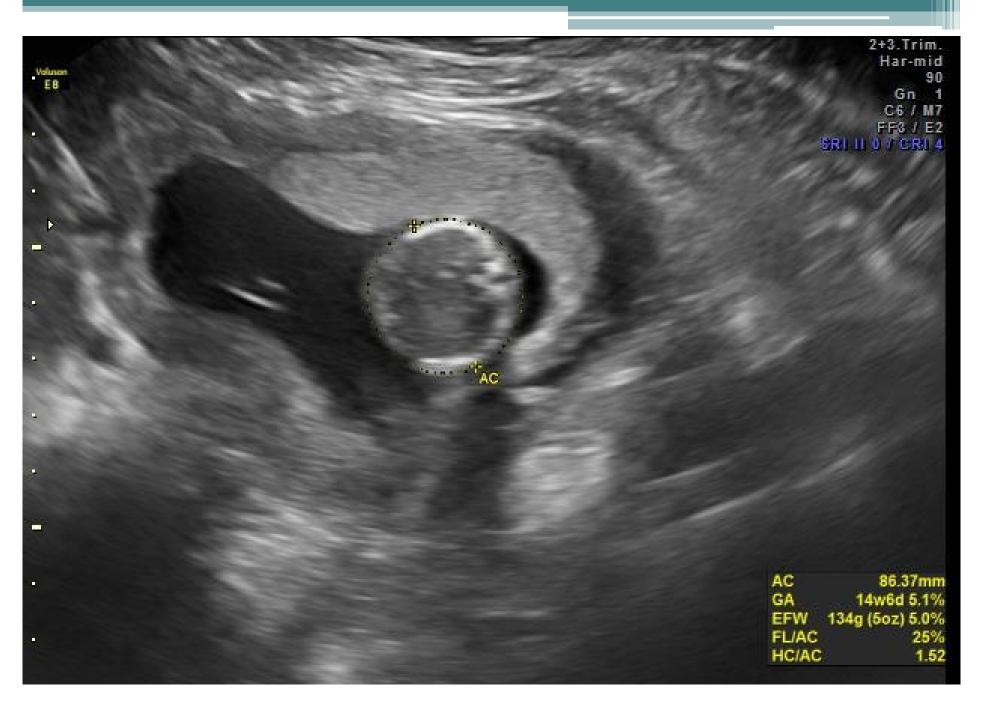
Patient came in for a cervical length due to patients history of an arcuate shaped uterus.

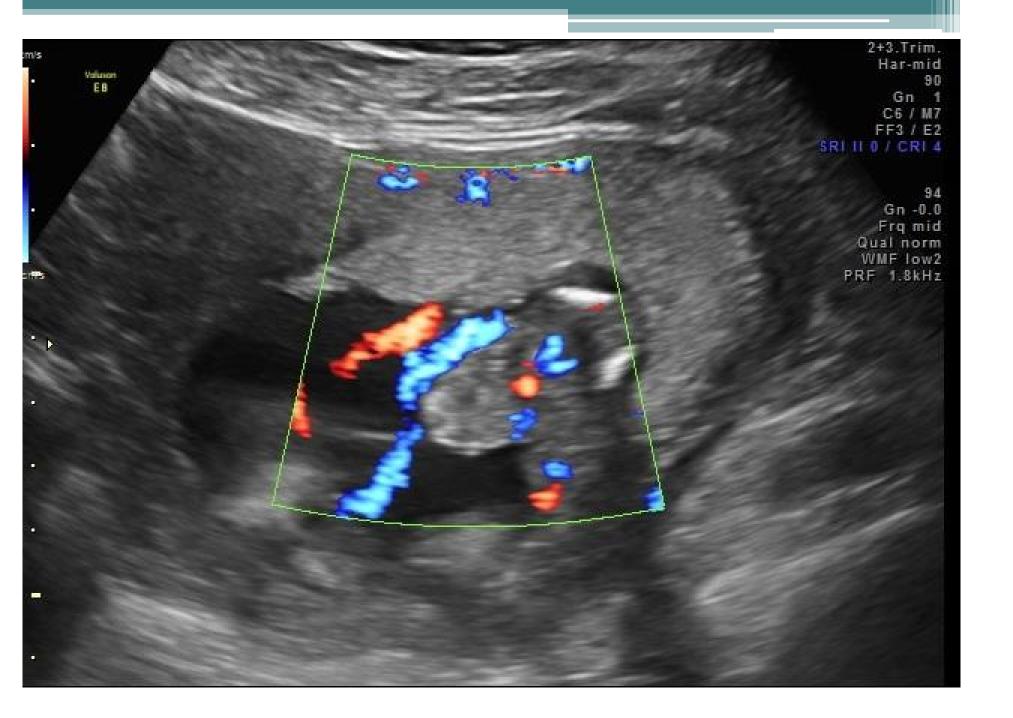
## 16 5/7 week findings

Cervical length measured 36 mm Abdomen circumference small Ventral wall defect

Suspected to be either an omphalocele or a gastroschisis.







## Omphalocele vs Gastroschisis

Herniation of abdominal contents into the base of the umbilical cord.

Liver and bowel are commonly involved.

Commonly associated with other anomalies.

US Appearance: Complex membrane enclosed sac continuous with umbilical cord.

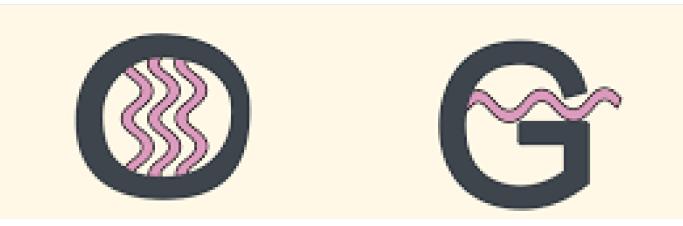
Herniation of abdominal contents through the abdominal wall.

Usually located to the right of the umbilicus.

Typically only bowel involvement.

Not commonly associated with other anomalies.

US Appearance: Free floating bowel loops with a normal umbilical cord insertion.



## 18 6/7 weeks Anatomy scan

Gastroschisis confirmed

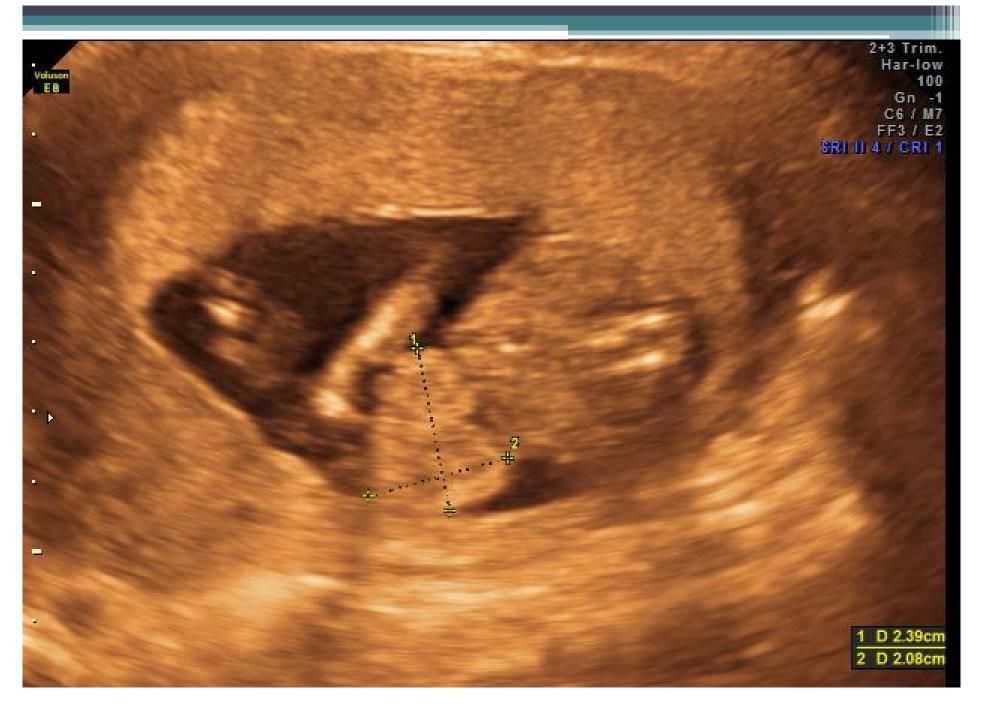
Measures 24x21 mm

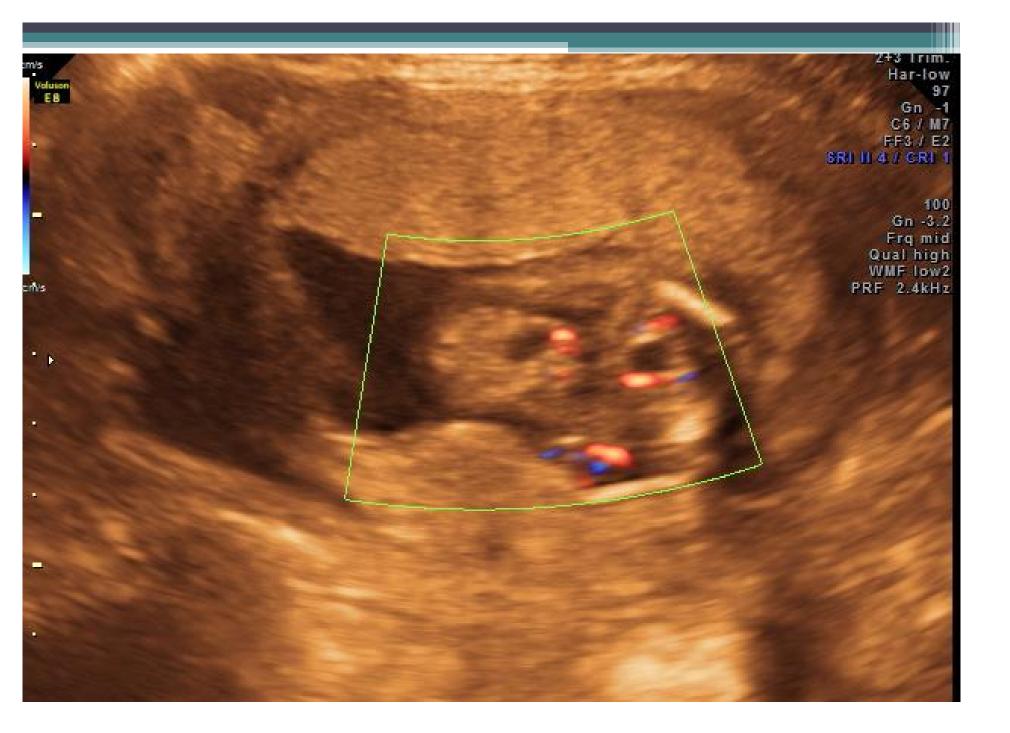
Heart deviated to the right

Could not rule out diaphragmatic hernia Stomach appears posteriorly and superiorly displaced

Gender determined to be male







## 19 5/7 weeks Follow up

Gastroschisis noted again Left sided diaphragmatic hernia with fetal stomach in the thoracic cavity noted

Mediastinal shift to the right Suspect heart defect







#### Gastroschisis

1 in 3,000 pregnancies usually occuring in younger mothers.

**Increased MS-AFP** 

Associated with small abdomen circumference

Free floating bowel thickens

Use color to determine course of cord and distinguish bowel loops from vessels.

#### **Treatment**

Regular scans are advisable to monitor the thickness of the bowel wall, bowel distention and fetal growth. Baby can go to full term if bowel remains normal in appearance.

After birth, early surgical intervention is needed to reposition bowel loops and repair the abdominal wall.

If small, one surgery is usually required. If there is a large defect, several surgeries are required to slowly move the contents back into the abdomen.



SOURCE: State Journal research

## Prognosis

The survival rate is above 90%.

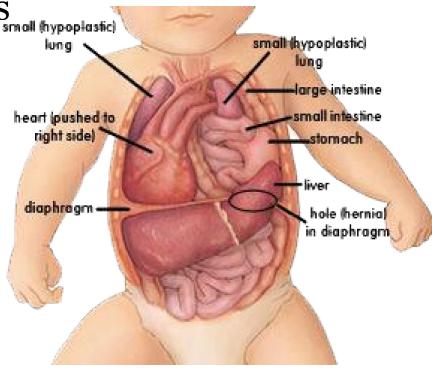
May develop a bowel obstruction secondary to a kink or scar in bowel.

Most gastroschisis babies live a normal life.

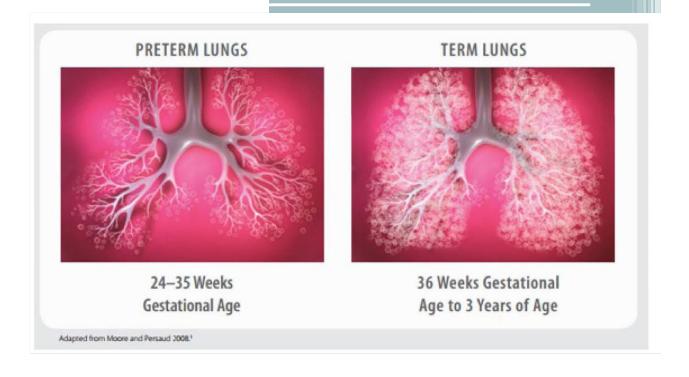
## Diaphragmatic Hernia

1 in every 2,500 live births
Majority occur on the left side
2x more common in males

Not genetically linked



## **Prognosis**



Depends on the severity of respiratory distress Worsens if diagnosis is made prior to 24 weeks Inhibits lung formation

#### Outcome

Patient terminated pregnancy due to:

Gastroschisis

Left sided diaphragmatic hernia

Suspected heart defect

# Thanks for your attention!