

Interesting Cases

First-trimester Images from 3 Different Fetuses

11 weeks 3 days



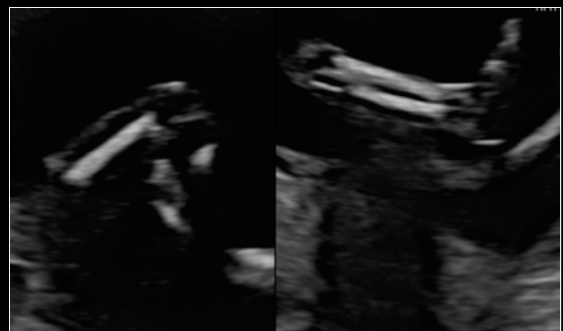
A

12 weeks 4 days



B

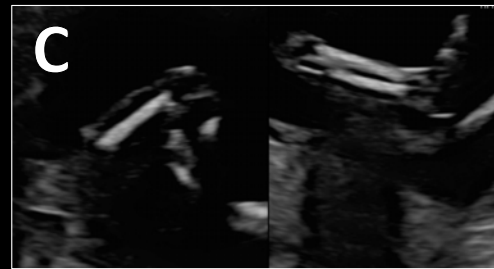
13 weeks 4 days



C

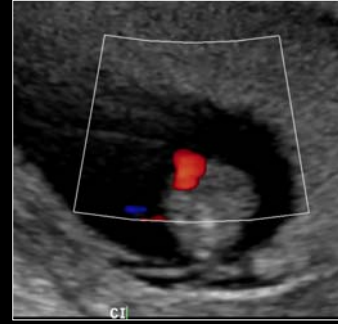
Which is abnormal?

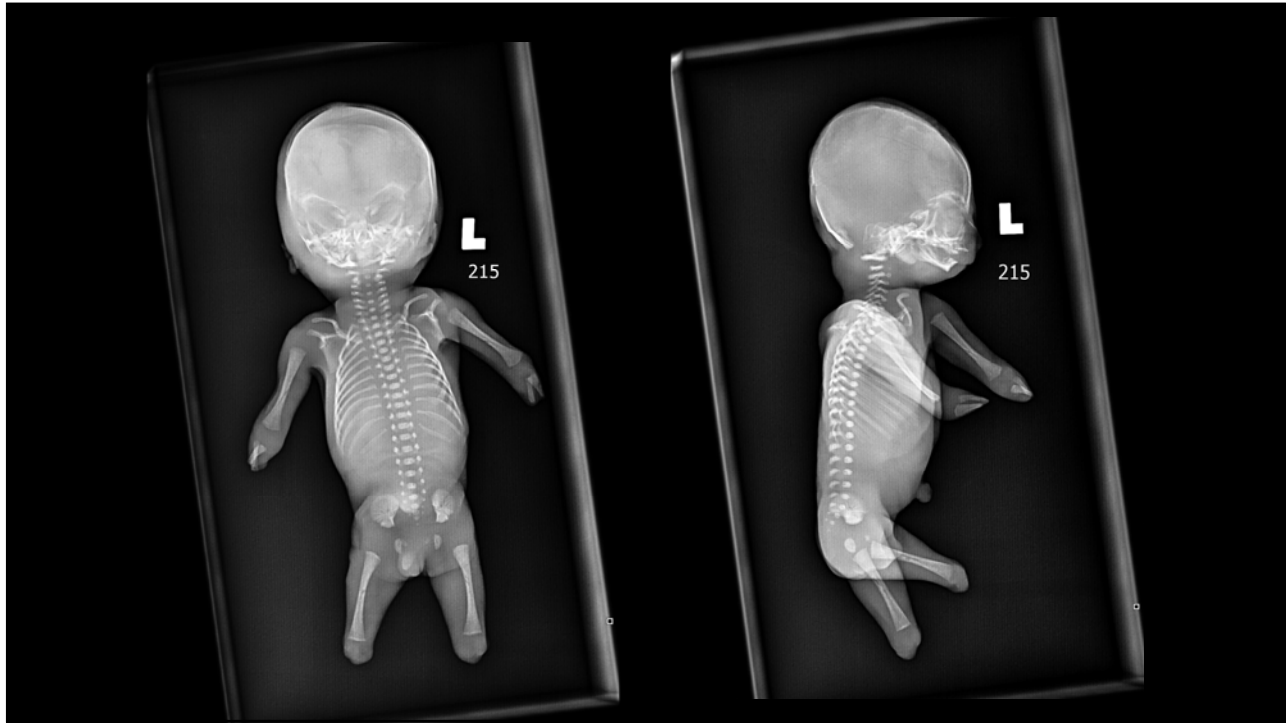
1. A
2. B
3. C



Case 1

12 weeks 4 day CRL 66 mm





Let's go back (remembering hindsight 20/20)

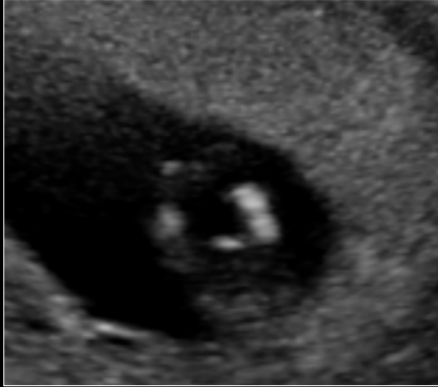


Normal 13 weeks 4 days



Abnormal 12 weeks 4 day

Lower Limbs



Abnormal 12 weeks 4 day

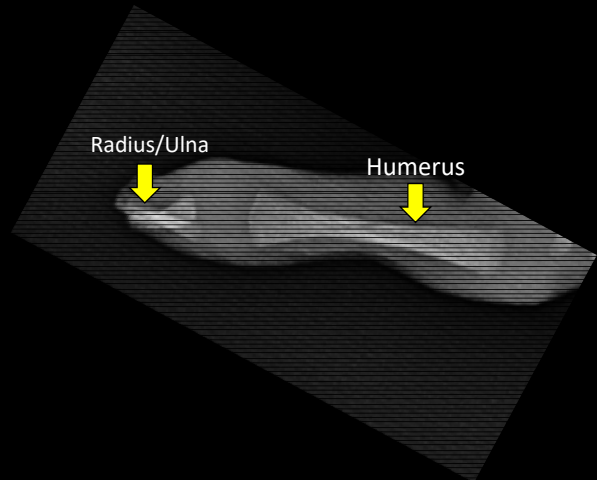
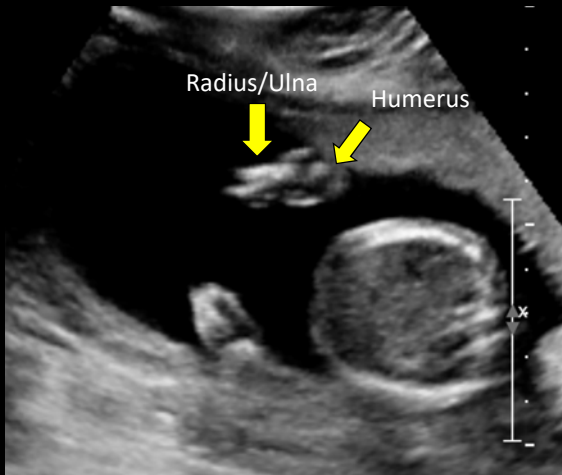
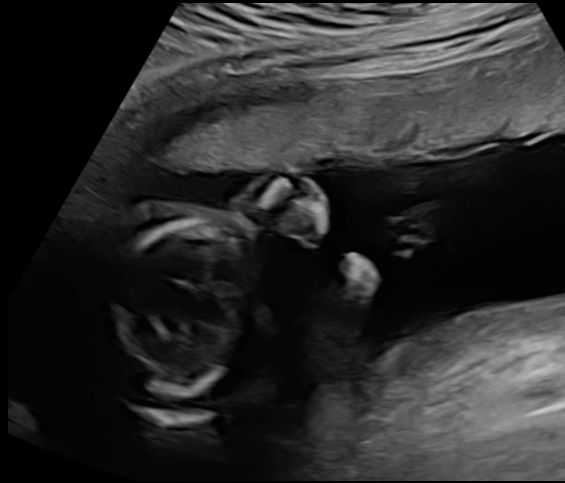


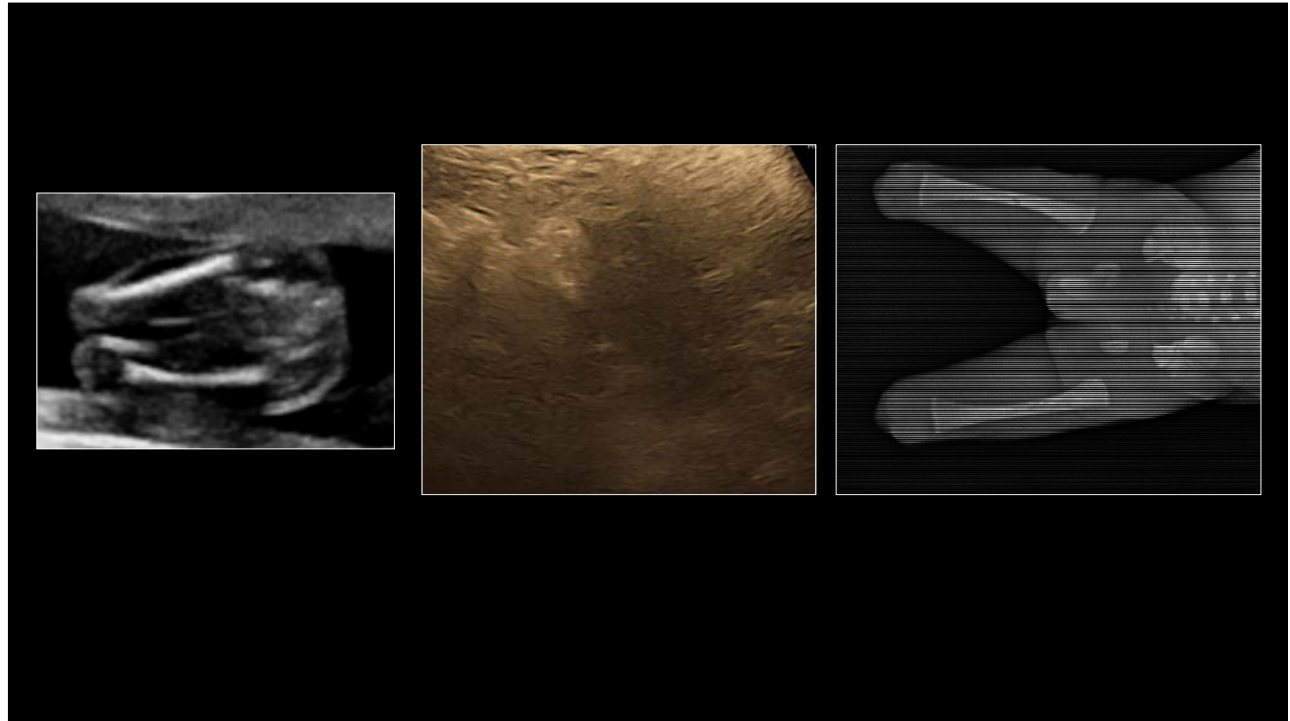
Normal 13 weeks 4 days

Anatomy scan at 19 weeks 5 days



Anatomy scan at 19 weeks 5 days





Diagnosis: Four Limb Reduction

- Normal Amniocentesis
- Genetics pending

Challenges with this case

- Technical challenges
- It's harder to see what isn't there
 - Inattentional blindness
 - We aren't as primed to look for an 'absent' finding
- Static images
- What can help?
 - Checklist approach

Patient:		ID number:	SONOGRAPHIC APPEARANCE OF FETAL ANATOMY:		
Date of birth (DD/MM/YYYY):		Referring physician:	N	Ab*	NV
Date of exam (DD/MM/YYYY):		Sonographer / Supervisor:	(N = Normal; Ab = Abnormal; NV = Not visualized; Grey = optional)		
Indication for scan and relevant clinical information:					
LMP					
Technical conditions: <i>Good / Limited by:</i>					
Singleton / Multiple (use 1 sheet/fetus)					
=> Chorionicity:					
ADNEXA:					
Appearance <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal*					
Anomaly:					
MEASUREMENTS	mm	Centile (Reference range)			
Crown-rump length					
Nuchal translucency (optional)					
Biparietal diameter					
Head circumference					
Abdominal circumference					
Femoral diaphysis length					
*Abnormal findings (please detail):					
Ultrasound-based estimate of GA:					
.....weeks +days					
CONCLUSION:					
<input type="checkbox"/> Normal and complete examination.					
<input type="checkbox"/> Normal but incomplete examination.					
<input type="checkbox"/> Abnormal examination*					
Plans: <input type="checkbox"/> No further ultrasound scans required					
<input type="checkbox"/> Follow up planned in weeks.					
<input type="checkbox"/> Referred to					
<input type="checkbox"/> Other:					
			Produced	Printed	Stored
No. of images					

Case 2

NT scan 12 weeks 1 day



Lower limbs



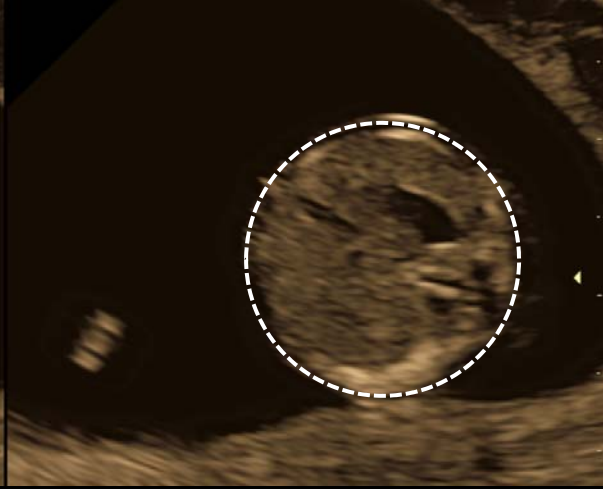
Nuchal translucency



Fetal chest



Fetal abdomen



What is your diagnosis?

- A. Lethal skeletal dysplasia
- B. Trisomy 21
- C. Thanatophoric dysplasia
- D. Amniotic band syndrome

Diagnosis: Thanatophoric Dysplasia

- Most common lethal skeletal dysplasia
- Key features:
 - Macrocrania
 - Small thoracic circumference with normal trunk length
 - Short extremities with redundant skin folds

