



Structured  
Ultrasound  
Reporting

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## New York Doctor's Medical Center

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### OBSTETRICS REPORT

Signed Final 10/08/2012 19:11

#### Patient Info

ID #: 377733 Name: Demo Patient D.O.B.: 01/01/75 (37 yrs)(F) Date: 10/08/2012 18:11

#### Performed By

Performed By: Joseph Gadecki Referred By: WILLIAM ANDERSON  
Attending: Joseph Anderson, MD  
Exam Location: MFM Dept.

#### Service(s) Provided

Amniocentesis, US Guided

#### Indications

Advanced maternal age, multigravida  
Abnormal Triple Screen (increased risk of Trisomy 21)

#### Fetal Evaluation

Number Of Fetuses: 1 Cardiac Activity: Observed  
Preg. Location: Intrauterine Presentation: Vertex  
Fetal Heart Rate(bpm): 144 Placenta: Posterior

#### Amniotic Fluid

Amniotic F.V.: Within Normal Limits

#### Biometry

BPD:	44.8 mm	G. Age:	19w 4d	62 %tile	CI (BPD/OFD):	69.32 %	70 - 86
HC:	171.8 mm	G. Age:	19w 5d	65 %tile	FL/HC:	16.5 %	16.1 - 18.3
AC:	147.7 mm	G. Age:	20w 0d	70 %tile	HC/AC:	1.16	1.09 - 1.39
FL:	28.3 mm	G. Age:	18w 5d	23 %tile	FL/BPD:	63.2 %	
					FL/AC:	19.2 %	20 - 24
HUM:	26.3 mm	G. Age:	18w 2d	24 %tile			
CER:	19.8 mm	G. Age:	18w 6d	42 %tile			
<b>Estimated FW:</b>	<b>293 gm.</b>	<b>0 lb 10 oz</b>	<b>49 %Tile</b>				

#### Gestational Age

LMP: 19w 2d Date: 5/26/2012 EDD: 03/02/13  
U/S Today: 19w 4d EDD: 02/28/13  
**Best** 19w 2d **Determined By:** LMP (05/26/12) **EDD:** 03/02/13

#### 2nd Trimester Genetic Sonogram - Trisomy 21 Screening

Age at EDD: 38 Risk=1: 113

NFT: 4.9 mm.

Structural anomalies (inc. cardiac):	No	LR : 0.79	Echogenic bowel:	No	LR : 0.87
Short femur:	Yes	LR : 7.94	Hypoplastic / absent midphalanx 5th Digit:	Yes	
Short humerus:	Yes	LR : 22.76	Wide space 1st-2nd toes:	No	
Pyelectasis:	No	LR : 0.85	2-vessel umbilical cord:	No	
Nuchal fold thickening >= 6 mm:	No	LR : 0.67	Echogenic cardiac foci:	No	LR : 0.75

10 Of 10 Criteria Were Visualized and 3 Abnormal(s) Were Seen.  
Ultrasound Modified Risk for Fetal Down Syndrome < 1:10

**Anatomy**

Fetal Cranium:	Within normal limits	Aortic Arch:	Within normal limits
Fetal Ventricles:	Within normal limits	Fetal Abdomen:	No abnormalities
Fetal Choroid Plexus:	Within normal limits	Fetal Abdominal Wall:	Within normal limits
Fetal Cerebellum:	Normal size and shape	Fetal Cord Vessels:	Mild Pyelectasis, See comments
Fetal Posterior Fossa:	Within normal limits	Fetal Bladder:	Visualized while full
Fetal Face:	Limited views	Upper Extremities:	Limited views
Fetal Heart:	Normal 4 Chamber	Lower Extremities:	Limited views

**Doppler - Fetal Vessels**

<u>Umbilical Artery</u>	<u>S/D</u>	<u>%tile</u>	<u>RI</u>	<u>%tile</u>	<u>PI</u>	<u>%tile</u>	<u>PSV cm/s</u>	<u>MoM</u>
	4.52	58	0.75	43	1.3	51		
<u>Middle Cerebral Artery</u>	<u>S/D</u>	<u>%tile</u>	<u>RI</u>	<u>%tile</u>	<u>PI</u>	<u>%tile</u>	<u>PSV cm/s</u>	<u>MoM</u>
							38.0	<b>1.56</b>

**Impression**

Biometry is compatible with dates on the repeat ultrasound. Four abnormal findings in the trisomy 21 screening: **Shortened humerus, Short femur, Absent midphalanx on fifth digit, and the nasal bone was also found to be absent.** Patient was counseled regarding the benefits, risks, limitations of amniocentesis. Amniocentesis was performed under guidance using 22g spinal needle under sterile conditions. Patient tolerated procedure well. Fetal heart tones were present before and after the procedure.

**Recommendations**

Based on today's ultrasound, patient to return in 3 weeks for a Detailed Ultrasound and another Trisomy screening to determine if the markers are consistent with the Cytogenic Diagnosis. Recommended to patient that Mr. Jones accompany her for discussion of the diagnosis, and options available to them.



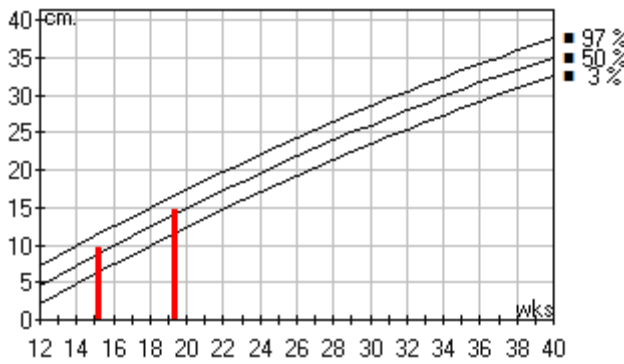
Thank you for sharing in the care of Demo Patient with us. Please do not hesitate to contact us if you have any questions or concerns.

*Joseph Anderson*

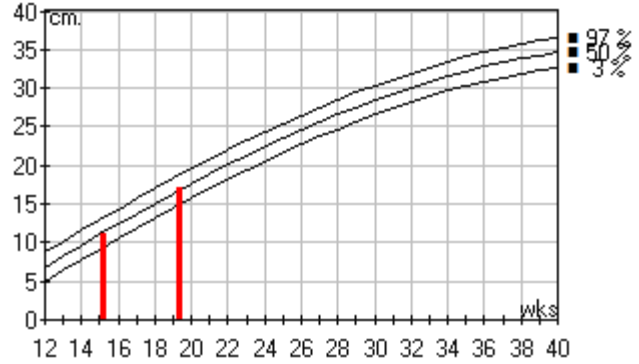
Joseph Anderson, MD

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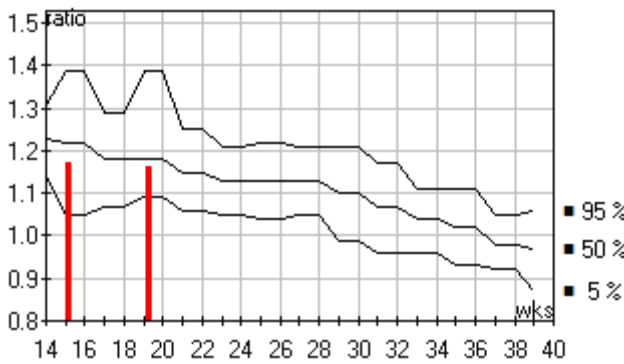
AC Hadlock et al 1984



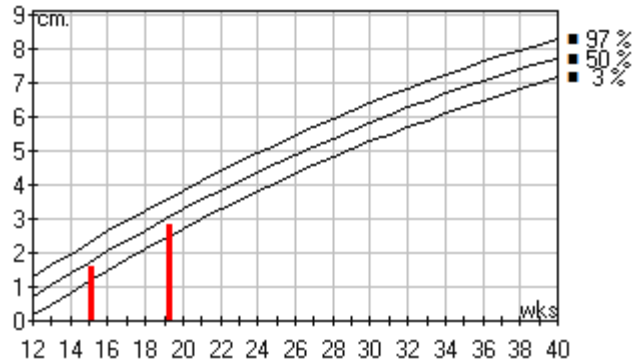
HC Hadlock et al 1984



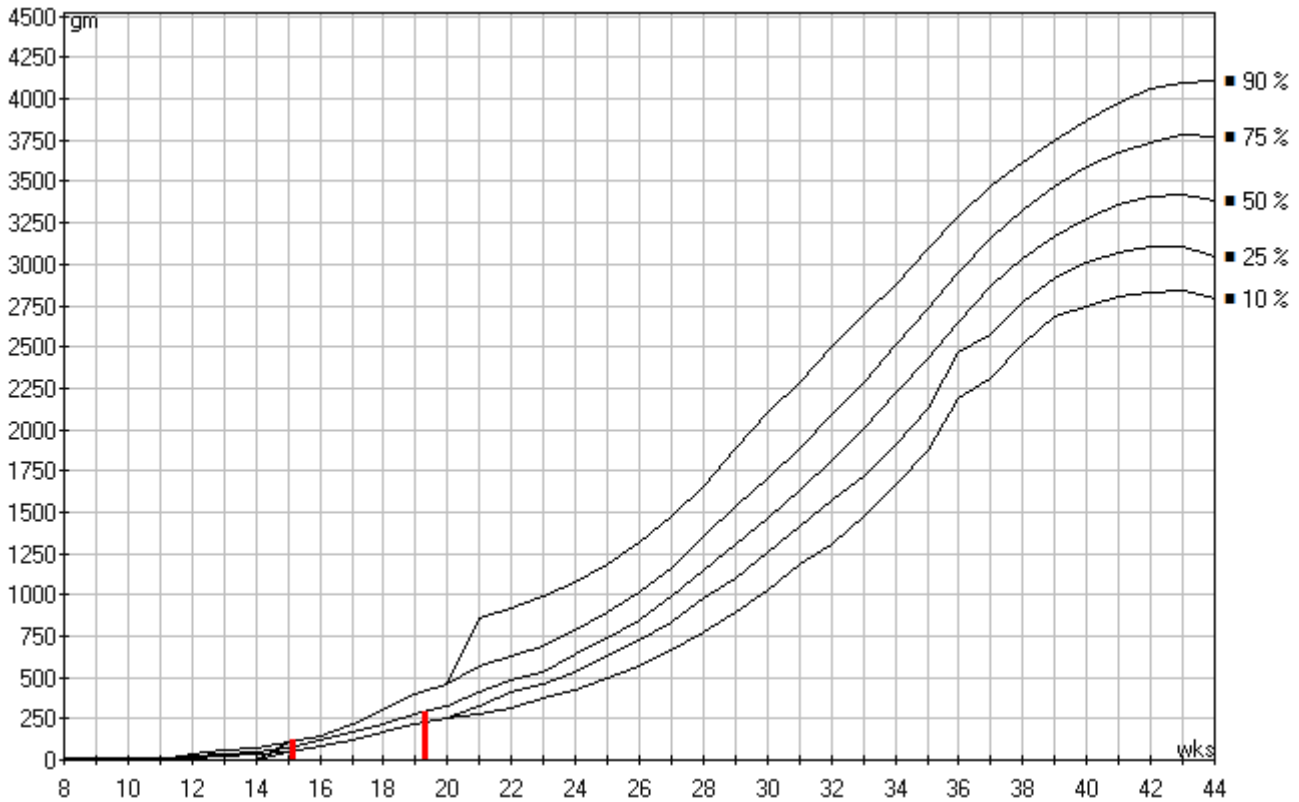
HC/AC Campbell, Thomas 1997



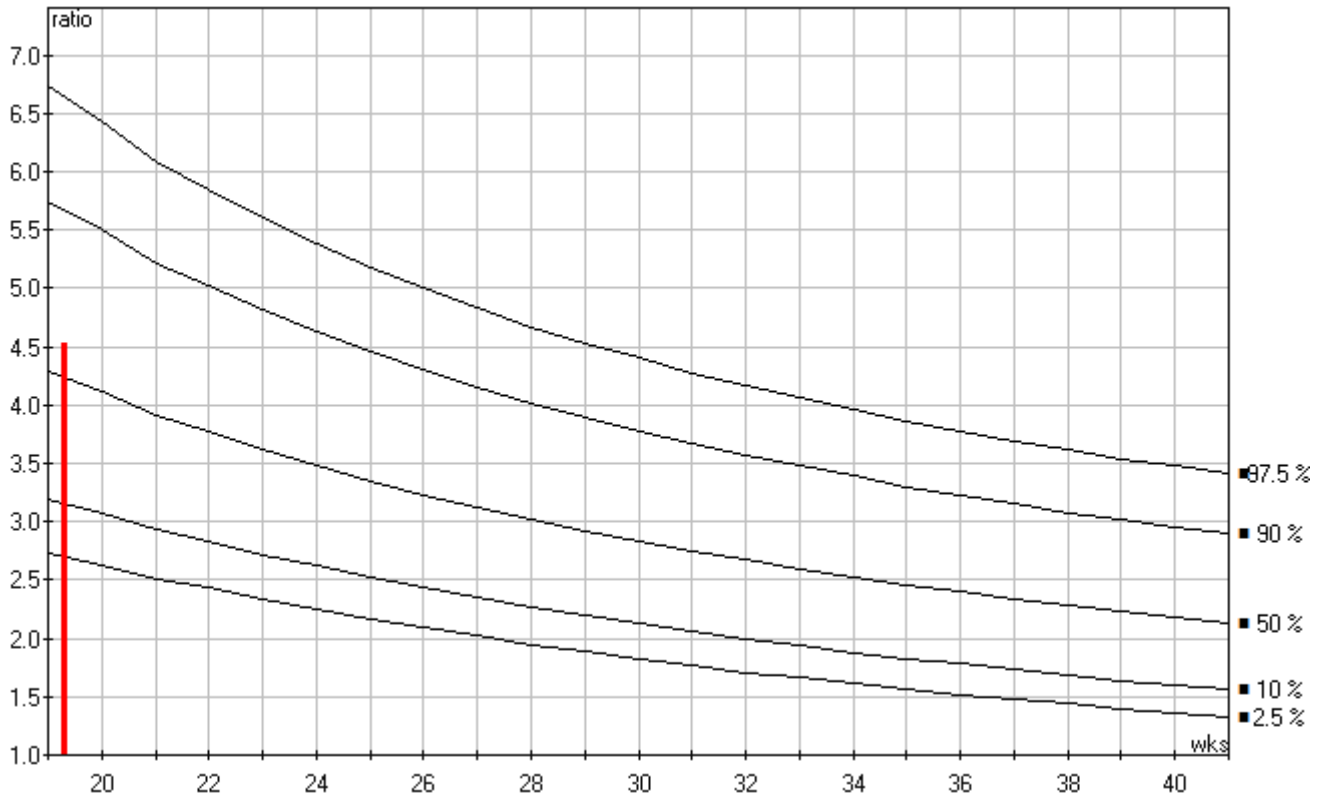
FL Hadlock et al 1984



Fetal Weight Brenner: Am J Obs Gyn 1976; 126:555.



Umbilical Artery S/D Ratio Umbilical Artery S/D Ratio Graph 1a: Archarya et al 2005



Middle Cerebral Artery - Peak Systolic Velocity PSV MCA 1: Mari et al 2000

