

Ref. No: 1562
Date: 19th February
Subject: Fetal Medicine

REQUEST

1. To which LMNS does your trust belong to?
2. Is your trust a tertiary Fetal Medicine Unit?
3. Does your trust do a routine late third trimester scan for every woman in pregnancy?

Regarding growth scans in the second or third trimester:

4. To calculate HC do you use HC or BPD + OFD?
5. To calculate AC do you use AC or TAPD + APD?
6. To plot FL centile which biometry chart do you use? (eg Chitty)
7. To plot HC centile which biometry chart do you use? (eg Chitty)
8. To plot AC centile which biometry chart do you use? (eg Chitty)
9. What algorithm do you use to calculate Estimated Fetal Weight?
(Eg Hadlock (HC, AC, FL), Hadlock (BPD-HC-AC-FL), Hadlock (FL-AC), Warsof (BPD-AC), Persson (BPD-TAD-APAD-FL), Hansmann et al, Combs, Souka, INTERGROWTH-21ST or other)
10. What centile reference chart do you use to plot the Estimated Fetal Weight?
11. Does your trust use GAP-GROW?
12. To measure Amniotic Fluid does your trust measure Deepest Vertical Pool or measure Amniotic Fluid Index?
13. Which chart do you use to plot the amniotic fluid volume?
14. When measuring Uterine Artery Doppler PI and PSV which reference centile chart do you use?
15. When measuring Umbilical Artery Doppler PI and PSV which reference centile chart do you use?

- 16. When measuring Middle Cerebral Artery Doppler PI and PSV which reference centile chart do you use?**
- 17. When measuring Ductus Venosus Doppler PI and PSV which reference centile chart do you use?**
- 18. Do you use the same charts for fetal biometry, Amniotic Fluid Index and Dopplers across all hospitals in your trust and all trusts in LMNS region?**

RESPONSE

MWL Response

- 1. To which LMNS does your trust belong to?** Cheshire and Mersey
- 2. Is your trust a tertiary Fetal Medicine Unit?** No
- 3. Does your trust do a routine late third trimester scan for every woman in pregnancy?** No

Regarding growth scans in the second or third trimester:

- 4. To calculate HC do you use HC or BPD + OFD?**
BMUS (Chitty charts) H.C. up to 23 weeks gestation and after 23 weeks gestation Chitty et al calculated by BPD+OFD
- 5. To calculate AC do you use AC or TAPD + APD?**
BMUS recommended charts (Chitty) after 23 weeks APAD +TAD
- 6. To plot FL centile which biometry chart do you use** BMUS Chitty
- 7. To plot HC centile which biometry chart do you use** BMUS Chitty
- 8. To plot AC centile which biometry chart do you use** BMUS Chitty
- 9. What algorithm do you use to calculate Estimated Fetal Weight? (Eg Hadlock (HC, AC, FL), Hadlock (BPD-HC-AC-FL), Hadlock (FL-AC), Warsof (BPD-AC), Persson (BPD-TAD-APAD-FL), Hansmann et al, Combs, Souka, INTERGROWTH-21ST or other)** Answer (BMUS) = Fetal weight can be estimated using a combination of BPD, HC, AC and FL15. We recommend the Hadlock formula which combines HC, AC and FL ('Hadlock 3') is used unless accurate measurement of the HC cannot be obtained due to fetal position. In this situation we recommend using the Hadlock formula which combines AC and FL ('Hadlock 2').
- 10. What centile reference chart do you use to plot the Estimated Fetal Weight?** GROW
- 11. Does your trust use GAP-GROW?** Yes
- 12. To measure Amniotic Fluid does your trust measure Deepest Vertical Pool or measure Amniotic Fluid Index?** Deepest Vertical Pool. This is a regional decision

13. Which chart do you use to plot the amniotic fluid volume? Use DVP

14. When measuring Uterine Artery Doppler PI and PSV which reference centile chart do you use? >95th centile abnormal.

New Zealand Maternal Fetal Medicine Network. NZMFM:2014

15. When measuring Umbilical Artery Doppler PI and PSV which reference centile chart do you use? >95th centile abnormal.

New Zealand Maternal Fetal Medicine Network. NZMFM:2014

16. When measuring Middle Cerebral Artery Doppler PI and PSV which reference centile chart do you use? New Zealand Maternal Fetal Medicine Network. NZMFM:2014

17. When measuring Ductus Venosus Doppler PI and PSV which reference centile chart do you use? NZ chart DV PI

18. Do you use the same charts for fetal biometry, Amniotic Fluid Index and Dopplers across all hospitals in your trust and all trusts in LMNS region.

It was agreed in a regional meeting to use NZ chart for dopplers though I am not certain if this was implemented by all units in the region. I think we use the same charts for biometry, max pool depth and dopplers in all hospitals of our trust but not certain about the region.