

Setting up a cFFDNA screening service

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Objectives

- Aim is to avoid unnecessary anti-D in those with RhD neg fetus
 - identify RhD negative women at booking
 - inform patient, community midwife and GP of result and offer testing
 - check the fetal RhD status from maternal blood sample

Coordinated by NHS Foundation Trust blood transfusion laboratory

- A number of decisions:
 - How to identify the relevant patients
 - How to ensure the midwives know which patients are eligible for the test
 - Handling the samples on receipt
 - Handling the results
 - Availability of results to the clinical teams



Identifying RhD negative women

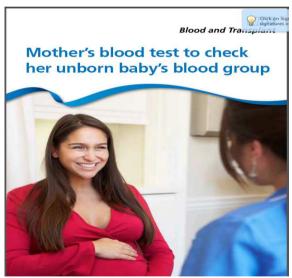
- Laboratory IT system (telepath) to identify RhD neg
- Check against EDD to ensure a booking sample



Communication

Ensuring the midwives know who is eligible for the test





Request for cell free fetal DNA (cffDNA) Sc RhD Fetal Genotyping Servic	
antibodies. For those cases, please s (a different form and sample volum	nples from women who have anti-D peak to the Fetal Maternal Unit first
Mother's Details:	
NHS No.	or* Hospital No.
*(if NHS No. is not known). Please ensure that the Le. NHS No. on both form and sample and/or H	numbers are the same on this form and the sample tub
Surname	
First name Address DOB	EDD from scan*
Address DOB *If scan has not been done, then one should be a	rranged before taking sample
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DOB **Black has not been done, then one should be a Please provide 6ml EDTA bit bate of sample taken. **Less the sample taken.	ood sample from the mother tame of person taking sample sample from the mother tame of person taking sample salls: Hospital NHS Code NHS Code Practice code





Samples

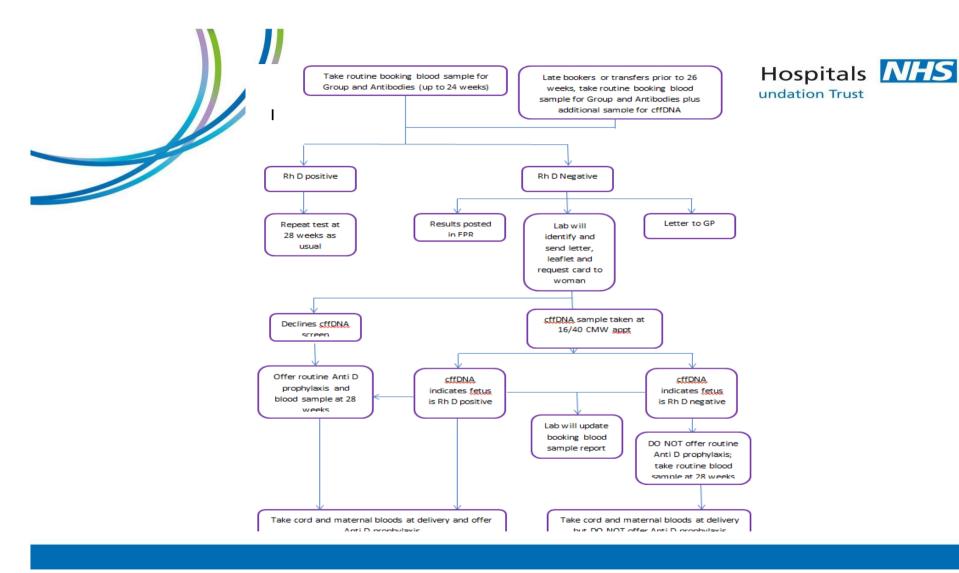
- Sample handling
 - Receipt of the sample is entered into the lab IT system
 - Samples dispatched to NHSBT on routine transport





Results

- We only get electronic copies of the reports from spICE
- Results manually entered into the lab IT system (and double checked)
- This sends the results to the GP systems and to the hospitals' EPR





Coordination of service

- Employed some clerical help with the administration (15 hours a week)
- The funding for this was from the predicted savings in prophylactic anti-D
- Some BMS time checking the results but this is not significant





Education

INFORMATION DOCUMENT INF1259/1

Effective: 18 Sign

cffDNA RHD screening User Guide



- Community Midwives
- Trust midwives
- Obstetricians
- GPs

Fetal RHD screening to determine requirement for anti-D prophylaxis during pregnancy



User Guide 2015



Figures to date

- 1st Feb- 31st October
- 954 letters to patients inviting them to have the test
- 629 samples received
- 24245 patients are predicted to be carrying a RH D neg baby (38.9 %)
- 19 inconclusive results
- Some labelling issues
- 1 mum who requested anti-D despite carrying a RhD neg fetus



Post delivery

- We are still undertaking a cord group on delivery
- We've had 166 deliveries of babies who were part of the service
- 12 deliveries where no cord sample was received
- All others for which there was a predictive Rh status have been correct



Problems?

- Problems have been small!
- Sample labelling issues when taken at GPs by phlebotomists
- Midwives sending 1 EDTA instead of 2 (we use 4.5ml specimen tubes)
- GPs wanting to decide who was having the test



Oxford University Hospitals NHS Foundation Trust Conclusions

- Successful programme
- Not difficult to establish involving the screening coordinator is a good thing!
- Avoids unnecessary anti-D (routine anti-D and anti-D after sensitising events)
- Avoids unnecessary investigations clinical and Kleihauers
- Improves patient safety





Questions

