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CONGENITAL HYPOTHYROIDISM CORD BLOOD SCREENING TEST

HOSPITAL.....

Item 1- 8 are to be filled in by labour room staff

1 Mother's IC number:	2 RN:
2 Mother's name:	
4 Home Address:	
a) Permanent address	b) During confinement period/maternity leave
5 Home Telephone No:	Handphone No:
6 Place of birth: Aras 2, Kampong Bersalin Hospital Melaka.	7 DOB: Time:
8 Date sample taken :	

Items 9 - 10 are to be filled in by laboratory

9 Date sample received:	
10 Outcome of screening:	a) TSH result (mU/l) : b) T4 result (ocg/dl):

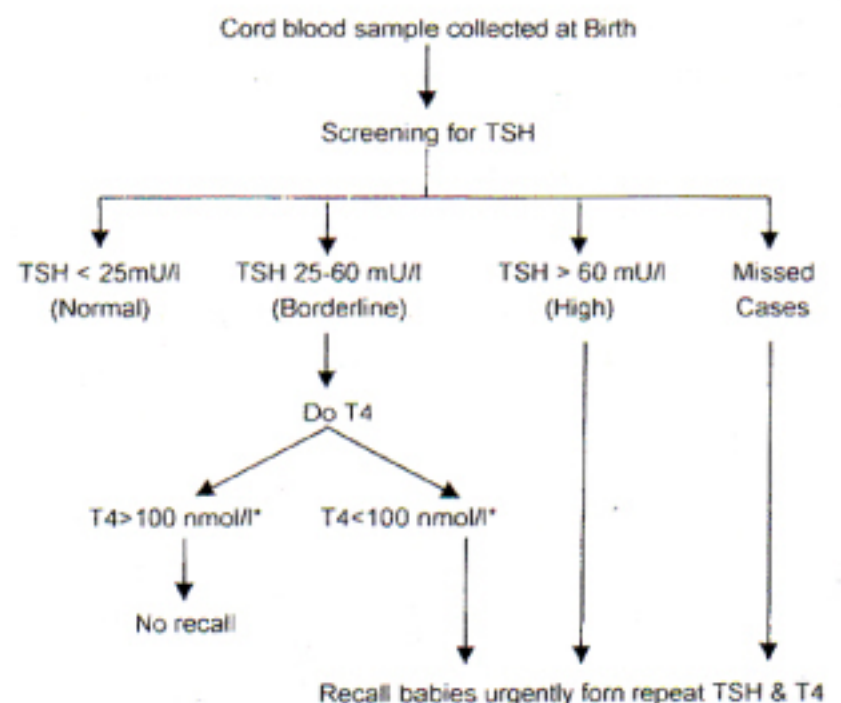
Collection of Blood Samples for TSH

- 1 Blood for TSH evaluation should be collected immediately after birth from the maternal side of the cord (see appendix A on triple clamp collection technique)
- 2 Blood is to be collected in the plastic tube provided (existing tube for TSH investigation).
- 3 Blood can be poured or "milked" from the cord directly into the plastic tube. Alternatively, blood may be collected in a sterile dry container (eg a kidney dish or gully pot) prior to pouring into the plastic tubes. A delay of more than 1 minute may result in blood clotting in the cord.
- 4 At all times it is important to minimise contamination by maternal blood and bacteria (bacterial contamination will demature antibodies as well as alter TSH levels). If possible the cord should be cleaned with gauze before collection of the sample to minimise contamination from maternal blood
- 5 That plastic tube should be filled with a minimum of 5 mls of blood (allow space for the cap to be pushed in).
- 6 The plastic tubes containing blood samples should be labelled immediately after collection of blood.
- 7 The tubes should than be placed standing in a rack.
- 8 Blood samples should be sent to the laboratory, with the completed forms, at the normal routine intervals.

Missed, Insufficient, Blood Clot Samples & BBA Cases

- 1 If for some reason the blood sample has not been taken from the cord then it should be taken from the baby ONLY after the third day of life. This is to avoid the TSH surge that occurs from 1/2 hour after birth to about 72 hours of age. This is applicable to born before arrival (BBA) cases, blood clot samples, insufficient samples and missed cases
- 2 In these cases please fill up the data collection form so as to inform us of the child's birth and address - send this to the Paediatric doctor in charge. Please also give parents the instruction sheet and the date on when to return for a blood sample (after the 3rd day of life) The Paediatric Department will be responsible to collect a blood sample
- 3 Blood samples collected after the 3rd day of life should be venous sample of at least 2 mls. Labelling and completion of the data collection form are as above.

Flow of Investigations



*T4 100nmol/l = 7.8 x g/dl