5 INTRAPARTUM CARE

5.14 POST BIRTH SPECIMEN COLLECTION / EXAMINATION

5.14.4 COLLECTION OF CORD BLOOD FOR STEM CELL HARVEST - MEDICALLY INDICATED

Keywords: Stem cells, stem cell harvest, collection of cord blood

FLOW CHART FOR ARRANGING STEM CELL HARVEST

Parents approach paediatric and adolescent oncologist and haematologist and make a request for collection of cord blood for stem cell harvest

The paediatric and adolescent oncologist and haematologist notify the:
- Medical Director for Obstetrics
- OGCCU Midwifery and Nursing Director
- Obstetric consultant for the team the women will be attending
- KEMH Chief Scientist and the RPH Scientist in Charge of the Cellular & Tissue Therapies Facility of Western Australia (CTTWA)

OGCCU Midwifery and Nursing Director notifies the:
- Clinical Manager of Ambulatory Services
- Clinical Midwifery Consultant of Labour and Birth Suite.

The Clinical Manager of Ambulatory Services:
- Refers the woman to the Complex Care Team where a “pink dot” is placed on the Special Instruction Sheet (MR 004) of the woman’s medical record.
- Arranges for the Principal Scientist to meet with the parents in the East Wing Clinic as early in the pregnancy as possible.

Medical Director for Obstetrics notifies the Labour and Birth Suite:
- Resident Medical Officer (RMO)
- Registrar
- Ensures education and training on collection of cord Bloods for stem cell harvest.

Clinical Midwifery Consultant of Labour and Birth Suit Records the woman’s details in the MFAU and Labour and Birth Suite Complex Care files as well as in the Staff Communication Books.

The oncologist PMH obtains written consent from the parents
HCS Transplant Nurse PMH arranges for pre( 37 week antenatal visit) and post delivery cord cell collection screening
The Principal or Scientist in Charge of Haematology KEMH
- Ensures Labour and Birth Suite has a current cord blood collection pack and an ACD specimen tube

Woman retains the consent form and brings it with her when she is admitted to Labour and Birth Suite

Refer to the Flow chart for Labour and Birth Suite Responsibilities for collection of cord blood for stem cell harvest.

NOTE SPECIAL CIRCUMSTANCES:
- Private patients of Obstetricians who do not have admitting rights to KEMH are booked under the Medical Director of Obstetrics. The Private Obstetrician will liaise with the Medical Director with management in these circumstances.
- Women unbooked to KEMH when referral for stem cell harvest is made will temporarily be booked under the Medical Director of Obstetric team until the woman is booked to KEMH. An Obstetric Team will then be allocated.
FLow chart for labour and birth suite responsibilities

1. Woman is admitted to the Maternal Fetal Assessment Unit, the Labour & Birth Suite or an Obstetric Ward with a “Pink Dot” on her special instruction sheet (MR 004) indicating the need for collection of cord blood for stem cell harvest.

2. The admitting midwife notifies the Labour and Birth Suite Co-ordinator of the woman’s admission.

3. The Labour & Birth Suite coordinator notifies the:
   - midwife responsible for the woman’s care, or the midwife allocated to attend Caesarean sections as appropriate.
   - ward clerk
   - resident medical officer and registrar

4. Resident medical officer / registrar notifies:
   - Principal Scientist (2750) or Scientist in Charge (2746), Haematology KEMH or the Shift Scientist via switchboard after hours (Page 3254) of the woman’s admission and confirms what blood samples are required.

5. Resident medical officer / registrar notifies:
   - collects cord blood* (Cord collection bag and ACD tube)
   - collects post delivery maternal samples
   - completes the Pathology request forms for cord collection and maternal samples

6. Resident medical officer / registrar arranges immediate (within 15 minutes) transport of all cord Blood specimens to the Haematology Department.

7. The cord collection kit is available from the Labour and Birth Suite. A spare collection kit is available from haematology.

NOTE - WOMEN HAVING A CAESAREAN SECTION
It is the responsibility of the surgeon to arrange medical personnel to collect the cord blood in theatre. The midwife should advise the surgeon prior to the commencement of surgery if no-one is present in theatre to collect cord blood.
REFERENCES / STANDARDS

National Standards – 1- Care provided by the clinical workforce is guided by current best practice
Legislation - Nil
Related Policies - Nil
Other related documents – Nil

RESPONSIBILITY

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