HIV PREVENTION RESEARCH UNIT



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BUILDING A HEALTHY NATION THROUGH RESEARCH





How Chain of custody works at on-site lab e.g. FBC sample?

The FBC sample is collected by the nurse-this is registered onto a specimen collection log in the blood draw/clinical exam room. The accompanying request form for that study specific kit used at this visit is completed with the ffg details.

LANCET/BARC SA STUDY KIT





How Chain of custody works at on-site lab e.g. FBC sample?

- **Representation of the Representation of the**
- Nonce FBC tube is received at the on-site lab, The lab's internal chain of custody is initiated to track handling of specimen throughout testing and storage.
- ★ The FBC sample is registered onto the specimen tracking log which is the daily register of samples coming in to the lab. The sample is also registered onto the specimen shipping log. This info enables that site lab to track sample submission and receipt of information.









How Chain of custody works at off-site lab e.g. FBC sample?

- The FBC sample is stored in the on-site fridge -until end of day where all samples to be shipped are QC. The sample info is QC ed against the request form, shipping log and specimen tracking to confirm all info is correct.
- The FBC sample together with the original copy of the request form are packed according to IATA specifications and is then shipped with a copy of the shipping log.
- This log is signed off by on-site Lab QC staff who has verified all samples and then by the off-site lab courier.







OFF-SITE TESTS



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How Chain of custody works at off-site lab e.g. FBC sample?

- Upon receipt at the off-site lab- the MRC shipping log must be ticked and signed off for FBC tube received-this MRC shipping log is sent back to MRC together with all hard copies of results to enable results for all samples to be tracked.
- The off-site lab chain of custody is initiated and the FBC sample is logged onto Meditech System, the request forms are signed, dated and time is inserted. The request form is also scanned to enable specimen audits to be done in the event of a problem.
- The Meditech system automatically generates a shipping list which is sent with FBC sample to the Haemotology department.







Cases of what can go wrong with such a sample and test!

- The Haemotology department will test the sample and the result generated will be sent via e-version to the study specific staff who have been given access to e-version data within the agreed TAT [24-48hrs].
- The on-site QA/QC Lab RA will QC the e-version and queries are only raised with the HPTN 035 lab co-ordinator if the onsite lab cant proceed or handle the query -at this point the ffg can go wrong:







Problem	Investigate Cause of Event	Solution and Documentation Required
FBC Sample haemolysed	 Transportation condn Specimen Draw On-site lab or Off-site lab didn't request FBC test Sample lost internally and when found-it is haemolysed 	 On-site lab-Check cooler boxes and gel ice packs/Fridge temp-QA event form Speak to nurse about blood draw-expired tube, vacuum problem or speed of draw-re-train staff-training log On-site QC and Off-site process failed-incident report Off-site QC process failed-incident report





Problem	Investigate Cause of Event	Solution and Documentation Required
FBC Normal Range	 Logged as male px Normal range changed but data system not updated with info Conversion of normal values into study specific SI unit is incorrect 	 Picked up during the QC of e-version results and offsite lab informed using DCF-amended report requested with comment detailing problem Update data base with normal range change-inform the on-site lab-provide official letter of change over and incident reports of px affected. Amended report on px required. Checked by HPTN 035 Lab Co-ordinator- request for amended report





Problem	Investigate Cause of Event	Solution and Documentation Required
FBC Grading problem	1. Clinician queried with HPTN 035 lab co-ordinator change from grade 1 to grade 4 neutrophil count in 2 weeks.	1. Upon repeat analysis- Pathologist confirmed error on report-transcription error from raw data to data base.
	2. Co-ordinator requested repeat analysis of slide prepared.	2. Amended report to be placed on px file and incident report explaining the problem.

Always remember it is a fact finding mission not fault finding!!





LOG

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Quiz Time!

What is the name of the log used as a daily register for tracking of **SPECIMEN TRACKING**

chain of custody at the SA sites?









Thank You From the Lab Team South Africa!!















Participant ID Pu GRamineg a healthy nation through research

Gender FEMALE Collection Date Collection Time	Medical Research Council 123 Jan Hofmeyr Rd, Westville ct035 Container/Kit = 035R	
Collectors Initials Site R K KHAN	Dr = ct03500001 Dr. Govinden R K KHAN - UNIT, CHATSWORTH Ambulance parking, R K KHAN Tel: (031) 401-4150 Fax: (031) 401-4563	4ml EDTA
KINDLY CROSS (X) APPLICA	BLE VISIT REQUIRED TO BE PERFOI	RMED
SCREEN PART 1 PHASE	II PHASE IIB	
VISIT CODE		
KINDLY CROSS (X) APPLICABI	LE TESTING REQUIRED TO BE PERF	ORMED
035F 1xUrine 035A 1x 4ml EDTA 035B 1x 4.5 ml CITRATE 035E 1x 5ml SST	GC & CT - SDA FBC, PLATELETS, Diff COAGULATION (PI, PTT)LAB RECEIVES ALIC RPR reflex TPHA IF RPR POSITIVE	QUOT FOR TESTING
035C USE SST TUBE 035D	ALT, AST, ALK PHOS, GGT, T Bili UREA, CREATININE	
CRYOVIALS AND	SE ALIQUOTED INTO 2X1ML PLASMA INTO OKEPT FOR COLLECTION BY MRC LAB O BE DONE AT MRC LAB	
AUTHORIZATION REQUIRED FOR ADDITIONAL TESTING Additional Test: Comments: Internal use ONLY	G	
BARC CONTACT DETAILS:	COURIER DETAILS	

BARC CONTACT DETAILS:		COURIER DETAILS:		
Colin Moonsamy	Tel:	073-259-2940		
	Emergency	073 2592940	DURBAN:	Tel: 031-308-6516/12/02
Selvan Pillay	Tel:	082-095-4629	BARC / Lancet Labs	Fax: 031-308-6503/6600
	Emergency	082 0954629		