

MTN 020 LAB BREAK OUT PRESENTATION

Gabriel Banda Core Lab Supervisor UNC Project, Lilongwe



MISSED TEST

DESCRIPTION OF THE PROBLEM

- Missing a test can happen either in the lab or at the clinic. How?
- Sometimes the clinic can miss to order a test at a particular visit and thus forgetting to mark or tick on the Lab request form.



MISSED TEST DESCRIPTION OF THE PROBLEM

- Likewise the Lab can miss to order a test into the LIS and the test can be missed when entering participant information into the LIS.
- For an institution which is involved in many research studies for MTN, HPTN, ACTG, IMPAACT and many more, the Lab reception person needs to be proactive in receiving specimens.



- With lots of Lab request forms and specimens coming into the Lab, the Lab person may find it difficult to check what has been ordered is the right order for the right visit for a particular study.
- If the test is not ticked on the Lab request form it is not easy for a Lab person receiving specimens at the Laboratory reception to know the test has been missed.



 As for the clinic, clinic staff can easily miss a test if not following the SSP manual or for whatever reason they may have.

RESOLUTIONS

 To help Lab reception and clinic staff minimize errors a dummy Lab request form has been prepared so that they compare what they are supposed to order or what they are supposed to receive at every visit.



- The dummy Lab request forms have been placed at the Lab reception area and in all clinic rooms where these activities take place.
- Lab Reception and clinic staff then compares what has been ordered on the clinic requisition against the dummy requisition for that particular visit.



- ➤ If the test is missed, the clinic is notified and the test is ordered or added right away.
- In the Lab, if a test is missed (can happen when entering client information in the LIS), the lab has Data QC person who counterchecks what has been entered.
- Even though the technician may print pending list can not show a test if it was not ordered in the LIS.



- Then the QC person report to supervisor.
- The supervisor checks if the sample is available and the test is added or ordered.
- If the sample is not available, the clinic is informed right away. The clinic takes necessary measures.
- A few Lab Request forms for screening and enrollment visit just as an example in the next slides:-



SCREENING VST - PELVIC SAMPLES
Private Bag A-104, Lilongwe, Malawi
Phone: (265) 1 755 056, (265) 1 757 830
Fax: (265) 1 754 237

I AROBATORY DECLIERT FORM

Nº 208579

STUDY:			ORATOR								
		PID:_		(10)	- 1	REQUES	TING C	LINICIAN:			
VISIT CODE:	GENDER:	MALE	- FEMAL	E	DOB:		A	GE:			
SPECIMEN COLLEC	ID	ID ID			/_						
SPECIMEN TRANSP	ID				/			TIME:			
RECEIVING TECH:	ID		D	ATE:	/			TIME:			
	Specime	ns Delivered: E	nter count of	each type of	specin	nen contali	ner bei	ng delivered to la	b		
Blood, EDTA			Biopsy I Pan Smaor								
Blood Non or	SST		- I spanie						(CT/NG or Storage)		
			NIIIX					Tear-	Flo		
					Seme	n		Temp	us Tube		
	0	Cytobri	ish		Stool	Storage		Urine	(CT/NG or Storage)		
2 Other Gran	n Stain.	slides		1	Other	Endo	ervic	al swah			
CHEMISTRY		HE	MATOLOGY				STOR	GE			
Alanine Aminotra	nsferase (A						5000000	William Control			
		5.640									
Alkaline Phospha	tase										
Amylase									torage		
Aspartate Transa	minase (AS	T) IM	IMMUNOLOGY								
	W. C. S.										
	en (BUN)					D62 3					
	,,										
Carbon Dioxide											
Cholesterol (Total	n										
	*										
				10.4							
							Oth	er Storage:	acarvial s		
	ase			last			X111E	-			
	000										
No. of the last of											
	enase										
	011000										
				igG							
		-	U Other:								
		MC	I ECIII AD				a out	. 1	2		
							ОМИ	INTO.			
						2	-UMMI	.n13:			
				(Roche Sta	indard	, -					
									TELLINE		
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN				-		_					
			Test Date	Tir	ne	Tester	ID	Clinician Review	Date		
Determine HIV	777			6			10				
IniGold HIV (FDA)					2						
IniGold (non-FDA)			To Allen			1		-			
mooid (non-r DA)											
BioLine HIV											
	SPECIMEN COLLECTORY SPECIMEN TRANSP RECEIVING TECH: Blood, EDTA Blood, Non or Blood, Other Cher. Grath Alanine Aminotra Albumin Alkaline Phospha Alkaline Phospha Bliorubin (Direct) Bliorubin (Total) Bliorubin (Total) Carbon Dioxide Chloride Cholesterol (Total Creatinine Kinase Gliucose Gliucose Gliucose Gliucose CSF) Gliucose CSF) Gliucose Lactate Lactate Dehydrog Lipase Locatate Dehydrog Lipase Locatate Dehydrog Lipase Chloride C	VISIT CODE: SPECIMEN COLLECTED BY: SPECIMEN TRANSPORTED BY: RECEIVING TECH: Specime Blood, EDTA Blood, Non or SST Blood, ACD Blood, Other Other: CHEMISTRY Alanine Aminotransferase (AS Alikaline Phosphatase Amylase Aspartate Transaminase (AS Billirubin (Direct) Billirubin (Total) Blood Urea Nitrogen (BUN) Calcium Carbon Dioxide Chloride Cholesterol (Total) Creatinine Creatinine Kinase Glucose Glucose (CSF) Glutamyl Transferase HDL Cholesterol Lactate Lactate Dehydrogenase Lipase LDL Cholesterol Phosphorus Potassium Protein (CSF) Sodium Total Protein Triglycerides Other: LINIC RAPID TEST RESULTS Test Reactive	VISIT CODE: GENDER: SPECIMEN COLLECTED BY: ID SPECIMEN TRANSPORTED BY: ID RECEIVING TECH: ID Specimens Delivered: El Blood, EDTA Bloopy Blood, Non or SST Breast Blood, ACD CVL Blood, Other Cytobro CHEMISTRY HIS Alanine Aminotransferase (ALT) Albumin Alkaline Phosphetase Aspartate Transaminase (AST) Millionin (Total) Bliord Urea Nitrogen (BUN) Carbon Dioxide Chloride Cholesterol (Total) Creatinine Creatinine Glucose (CSF) Glucose (CSF) Glucose (CSF) Glucose (CSF) Glucose (CSF) Collegate Glucose Cholesterol Phosphorus Potassium MC Protein (CSF) Sodium Collegate Glucose Collega	VISIT CODE: GENDER: DMALE SPECIMEN COLLECTED BY: ID RECEIVING TECH: ID Specimens Delivered: Enter count of Specimens Delivered: Enter count of Blood, EDTA Blood, Non or SST Breast Milk Blood, ACD CVL Blood, Other Cytobrush Cytobrush Cytobrush Cytobrush Cytobrush Cytobrush Cother Gram Stain Stides CHEMISTRY Alanine Aminotransferase (ALT) Albumin Alkaline Phosphatase Aspartate Transaminase (AST) Billirubin (Direct) CD4 PLG (EI Billirubin (Total) CD4/CD8/CD COTYPIOCOCCA Cryptococca Carbon Dioxide HIV (Rapid T Creatinine Creatinine HIV (ELISA) Glucose (CSF) Glucose (CSF) HepB Rapid Glucose (CSF) Glucose (CSF) HepB Rapid Clucose (CSF) Cotherine Cotherine Cotherine Cotherine Cotherine Cotherine Cotherine Creatinine Creatinine Syphilis Rap Creatinine Creatinine Cothers Cotherine Cotheri	VISIT CODE: GENDER: DMALE DEPEMAL SPECIMEN COLLECTED BY: ID D. D. D. SPECIMEN TRANSPORTED BY: ID D. D. D. SPECIMEN TRANSPORTED BY: ID D.	VISIT CODE: SPECIMEN COLLECTED BY: SPECIMEN TRANSPORTED BY: ID DATE: DATE: SPECIMEN TRANSPORTED BY: ID DATE: DATE: DATE: SPECIMEN TRANSPORTED BY: ID DATE: DATE: DATE: DATE: DA	VISIT CODE: GENDER: MALE FEMALE DOB: SPECIMEN COLLECTED BY: ID DATE: / SPECIMEN TRANSPORTED BY: ID DATE: / RECEIVING TECH: ID DATE: / Specimens Delivered: Enter count of each type of specimen contain Blood, EDTA Blood, ACD Blood, ACD Cylobrush Blood, ACD Cylobrush Cylobrush Cylobrush Cylobrush CRECIVITY Albumin Alkaline Aminotransferase (ALT) Billirubin (Direct) Billirubin (Direct) Billirubin (Direct) Carbon Dioxide Cholesterol (Total) Cholesterol (Total) Creatinine Kinase Gilducose Gilducose Gilducose HepBaAg ELISA HepC Syphilis RPR Cardy Carlor (CSF) Collesterol Collesterol Collesterol Diagram MALE DATE: / Pap Smear Saliva Saliva	VISIT CODE: GENDER: GENDER: MALE FEMALE DOB: DATE: / SPECIMEN COLLECTED BY: ID DATE: / RECEIVING TECH: ID DATE: Specimens Delivered: Enter count of each type of specimen container belied by the container bel	SPECIMEN COLLECTED BY: ID		

SCREENING VST



Private Bag A-104, Lilongwe, Malawi Phone: (265) 1 755 056, (265) 1 757 830 Fax: (265) 1 755 954

LABORATORY REQUEST FORM - MICROBIOLOGY Nº 13192

STUDY:	PID:		REQUESTING CLINICIAN:						
VISIT CODE:	SIT CODE: GENDER: MA				AGE:				
SPECIMEN COLLECTED BY:	iD [DATE:/		TIME:				
SPECIMEN TRANSPORTED I	BY: ID		DATE:/	/	TIME:				
RECEIVING TECH	; ID		DATE:/	/	TIME:				
Specimens Deliv	vered: Enter	count of ea	ach type of specimer	n container bein	g delivered to lab				
Bactec Bottle	Blood	Smear	Blood, Whole	Aspirate	CSF				
InPouch	Joint	Fluid	Sputum	Stool	Urine				
Pericardial fluid	Pleur	al Fluid		for Tricho					
Swab:	ricui	ai i iuiu	Other:		monas K				
MICROBIOLOGY □ AFB Smear ONLY □ AFB Culture and Smear			☐ Malaria Paras						
Ascitic Fluid Culture			☐ Malaria Parasites, GSK						
☐ Bacterial Meningitis Antig	gen		☐ Malaria Parasites, P1079						
☐ Bacterial Vaginosis Micro	овсору		☐ Joint Fluid Culture & Gram Stain ☐ Respiratory Culture, Lower & Gram Stain (sputum)						
☐ Blood Culture (Routine)									
☐ Blood Culture (Pediatric)				Culture, Upper (nose	unares)				
☐ Blood Culture (AFB)			☐ Throat (strep screen)						
CSF Culture and Gram St			☐ Wound Culture (surface swab) site:						
Cell Count & Differential ((CSF, sterile flu	id)	☐ Culture-wound/aspirate/tissue/deep biopsy: site:						
☐ Culture, Body Fluids: ☐ Ear Culture & Gram Stain		-	☐ Stool Culture						
			☐ Stool Microso						
□ Eye Culture & Gram Stain □ Gram Stain ONLY			☐ Urine Culture						
☐ Genital Tract Culture, Fen	nale		☐ Urine Dipstick						
Genital Tract Culture & G		,	☐ Urine Microse	copy icroscopy+dipstick)					
□ India Ink		8			indicated)				
☐ InPouch Culture (T. vagin	alis)		☐ Xpert MTB/RI						

DNC

SCREENING UST = 97.0

Private Bag A-104, Lilongwe, Maluwi Phone: (265) 1 755 056, (265) 1 757 830 Fax: (265) 1 754 237

		LAB	ORATOR	YREQUES	TFORM	Л	Nº	2085	80	
STUDY:		PID:			REQUE	ESTING (CLINICIAN:			
VISIT CODE:		GENDER:	MALE	FEMALE	DOB:			AGE:		
SPECIMEN COLLECT	TED BY:	ID		DATE	/	,				
SPECIMEN TRANSPO	ORTED BY:	ID		=						
RECEIVING TECH:								TIME:		
RECEIVING TECH:		ID		DATE				TIME:		
	Specimer	ns Delivered: E	nter count of	each type of spe	cimen cont	ainer bei	ing delivered t	to lab		
Blood, EDTA		Biopsy		P	ap Smear			wah (CT/	NG or Storag	
Blood, Non or 8	SST	Breast			iliva				NG or Storag	
Blood, ACD		CVL	(WILLIA					ear-Flo		
		-		Se	men		Te	empus Tu	be	
Blood, Other		Cytobn	ush	St	ool Storage		1 0	rine (CT/N	NG or Storag	
Other				0	her:			_		
CHEMISTRY			MATOLOGY			STOR	AGE			
X Alanine Aminotrar	nsferase (Al	LT)	CBC/Diff			162-1675 C	rum Storage			
☐ Albumin			Hemoglobin				sma Storage			
☐ Alkaline Phosphat	tase		☐ Manual Differential				☐ Gram Stain Slide Storage			
☐ Amylase							men Storage	o otorage		
X Aspartate Transan	ninase (AST) <u>IM</u>	IMMUNOLOGY				☐ Tear-Flo Storage			
☐ Bilirubin (Direct)			☐ CD4 PLG (EPICS with %)				☐ Genital Ulcer Swab Storage			
☐ Bilirubin (Total)			☐ CD4/CD8/CD3 FACSCOUNT w/o %				MC Storage	Tab Otora	90	
☐ Blood Urea Nitrog	en (BUN)		☐ CD4/CD8/CD3 FACSCOUNT with %				east Milk Stor	900		
☐ Calcium			☐ Cryptococcal Antigen				L Storage	age		
☐ Carbon Dioxide			☐ HIV (ELISA)				S Storage			
☐ Chloride			☐ HIV (Rapid Test)				ole Blood Pe	llet Store		
☐ Cholesterol (Total)	je -		HIV (Western	7. T. C.			psy Storage	not Stora	No.	
Creatinine			HSV ELISA				Smear Stora	200		
☐ Creatinine Kinase			HepBsAb EL	ISA			ne Storage	ıga		
Glucose			HepBsAg EL				ner Storage: _			
☐ Glucose (CSF)			HepB Rapid			L 011	ier storage			
☐ Glutamyl Transfera	180		HepC	TOUL		OTHER	-			
☐ HDL Cholesterol			Syphilis RPF			PONTS-250	AG – APTT			
□ Lactate			Syphilis Rap		□ COAG - INR					
☐ Lactate Dehydroge	nase		Syphilis TPH				AG-PT			
□ Lipase							gnancy Test ((urina)		
☐ LDL Cholesterol			☐ Toxoplasma IgG ☐ Other:				☐ Pregnancy Test (serum)			
☐ Phosphorus		_	Outlett.			□ Oth		oor anny		
□ Potassium		MC	LECULAR			-				
□ Protein (CSF)			CT/NG SDA			COMM	ENTS:			
□ Sodium			HIV DNA PC			SOMM	L1110.			
☐ Total Protein			HIV RNA PC			-				
☐ Triglycerides				R (Roche Stand	ard)					
Other:	-		Other:	· (riocile otalia						
CLINIC RAPID TEST RI	ESULTS									
Test	Reactive	Non-Reactive	Test Date	Time	Tes	ter ID	Clinician Re	eview	Date	
Determine HIV										
UniGold HIV (FDA)										
	-							1		
UniGold (non-FDA)							and the second			
BioLine HIV										

Pregnancy Test

UNC

ENROLLMENT VST

Private Bag A-104, Lilongwe, Malawi Phone: (265) 1 755 056, (265) 1 757 830 Fax: (265) 1 754 237

	LA	BORATOR	Y REQUES	TFORM	Nº	208581		
STUDY:	PIC):		REQUESTI	NG CLINICIAN			
VISIT CODE:	GENDER	R: MALE	FEMALE	DOB:		AGE:		
SPECIMEN COLLECTED BY	Y: ID		DATE			_ TIME:		
SPECIMEN TRANSPORTED	BY: ID		DATE		,	TIME:		
RECEIVING TECH:	ID							
Spe	ecimens Delivered	: Enter count of e	each type of spe	cimen containe	r being deliver	ed to lab		
Blood, EDTA	Bio	psy	Pi	ap Smear		Swab (CT/NG or Storage		
Blood, Non or SST	Bre	ast Milk	Si	aliva		Tear-Flo		
Blood, ACD	CV	L	Se	emen		Tempus Tube		
Blood, Other	Cvt	obrush	S	ool Storage		Urine (CT/NG or Storage		
Other:				her:		Offine (C1/NG or Storage		
CHEMISTRY		HEMATOLOGY			TODAOF			
☐ Alanine Aminotransfera	se (ALT)	□ CBC/Diff		3.79	TORAGE	A22		
□ Albumin	iso (ALI)	□ Hemoglobin			☐ Serum Storage ➤ Plasma Storage			
☐ Alkaline Phosphatase		☐ Manual Differ	rential		☐ Gram Stain Slide Storage			
☐ Amylase			· Oncidi		☐ Semen Storage			
☐ Aspartate Transaminas	e (AST)	IMMUNOLOGY			Tear-Flo Sto			
☐ Bilirubin (Direct)	,	CD4 PLG (EP	ICS with %)		☐ Genital Ulcer Swab Storage			
☐ Bilirubin (Total)		□ CD4/CD8/CD			PBMC Stora	CONTRACTOR OF THE PROPERTY OF		
☐ Blood Urea Nitrogen (B	UN)	□ CD4/CD8/CD			Breast Milk			
□ Calcium		☐ Cryptococcal			CVL Storage			
☐ Carbon Dioxide		☐ HIV (ELISA)	- Antigen		□ DBS Storage			
☐ Chloride		☐ HIV (Rapid Te	est)					
☐ Cholesterol (Total)		☐ HIV (Western			 □ Whole Blood Pellet Storage □ Biopsy Storage 			
☐ Creatinine		☐ HSV ELISA	1000		Pap Smear S			
☐ Creatinine Kinase		☐ HepBsAb ELI	ISA		Urine Storag			
☐ Glucose		☐ HepBsAg ELI			Other Storag			
☐ Glucose (CSF)		☐ HepB Rapid 1			outer otterag			
☐ Glutamyl Transferase		☐ HepC		0	THER			
☐ HDL Cholesterol		☐ Syphilis RPR			COAG - APT	т		
□ Lactate		☐ Syphilis Rapi			COAG-INR			
☐ Lactate Dehydrogenase		☐ Syphilis TPH			COAG-PT			
☐ Lipase		☐ Toxoplasma I	qG		Pregnancy Te	est (urine)		
☐ LDL Cholesterol		Other:	70		☐ Pregnancy Test (serum)			
☐ Phosphorus		The state of the state of			Other:			
□ Potassium		MOLECULAR						
☐ Protein (CSF)		☐ CT/NG SDA		CC	OMMENTS:			
□ Sodium		☐ HIV DNA PCR						
☐ Total Protein		☐ HIV RNA PCR	(Abbott)					
☐ Triglycerides		☐ HIV RNA PCR	(Roche Stand	ard)				
Other:	_	□ Other:						
CLINIC RAPID TEST RESULT	rs	3 3		_				
Test Read	ctive Non-Reactive	ve Test Date	Time	Tester II	Clinicia	n Review Date		
Determine HIV								

Test	Reactive	Non-Reactive	Test Date	Time	Tester ID	Clinician Review	Date
Determine HIV						-	
UniGold HIV (FDA)							
UniGold (non-FDA)							
BioLine HIV					20.51		
Pregnancy Test							

ENROLLMENT VST



BioLine HIV

Pregnancy Test

Private Bag A-104, Lilongwe, Malawi Phone: (265) 1 755 056, (265) 1 757 830 Fax: (265) 1 754 237

		LAB	ORATOR	Y REQUE	STF	ORM	1	208	583		
STUDY:		PID:_				REQUESTI	NG CLINIC	IAN:			
VISIT CODE:		GENDER:	MALE	□ FEMAL		OOB:					
SPECIMEN COLLECTED	BY:	ID			TE:	,			E)		
CDECHAEN TRANSPORT	TED 014				-						
SPECIMEN TRANSPORT	IED BY:	ID		D/	TE:	'	_/	TIM	E		
RECEIVING TECH:		ID		DA	TE:		_/	TIM	E		
	Specime	ns Delivered: E	nter count of	each type of	pecime	n containe	er being de	livered to lab			
Blood, EDTA		Biopsy			Pap Sm	near		Swah (C	Γ/NG or Storage		
Blood, Non or SST		Breast	Milk		Saliva		-		inde of Storage		
Blood, ACD		CVL			Semen		-	Tear-Flo	avy -		
Blood, Other			1.0				-	Tempus			
		Cytobr	ush		Stool St				/NG or Storage		
Other					Other	Vagin	al Swa	b			
CHEMISTRY		<u>H</u>	EMATOLOGY			<u>s</u>	TORAGE				
☐ Alanine Aminotransf	erase (A	LT)	CBC/Diff				Serum S	torage			
☐ Albumin			Hemoglobin	1			Plasma !	Storage			
☐ Alkaline Phosphatas	e		Manual Diffe	erential			Gram St	ain Slide Stora	ge		
☐ Amylase							 □ Gram Stain Slide Storage □ Semen Storage 				
☐ Aspartate Transamin	ase (AS	T) <u>IM</u>	IMMUNOLOGY					☐ Tear-Flo Storage			
☐ Bilirubin (Direct)			CD4 PLG (E	PICS with %)			Genital L	Jicer Swab Sto	rage		
☐ Bilirubin (Total)			☐ CD4/CD8/CD3 FACSCOUNT w/o % ☐ CD4/CD8/CD3 FACSCOUNT with % ☐ Cryptococcal Antigen				☐ PBMC Storage ☐ Breast Milk Storage ☐ CVL Storage				
☐ Blood Urea Nitrogen	(BUN)										
☐ Calcium											
☐ Carbon Dioxide			HIV (ELISA)			□ DBS Storage					
☐ Chloride			HIV (Rapid 1	lest)			☐ Whole Blood Pellet Storage				
☐ Cholesterol (Total)			HIV (Western	n Blot)			Biopsy S	torage			
☐ Creatinine			HSV ELISA				Pap Sme	ar Storage			
☐ Creatinine Kinase			HepBsAb EL				Urine Sto	orage			
☐ Glucose			HepBsAg EL	JSA		>	Other Sto	orage: Vagi	nal sway		
☐ Glucose (CSF)			HepB Rapid	Test							
☐ Glutamyl Transferase	•		HepC			0	THER				
☐ HDL Cholesterol			Syphilis RPF	3			COAG-	APTT			
□ Lactate			Syphilis Rap	old			COAG-I	NR			
☐ Lactate Dehydrogena	ise		Syphilis TPH	łA.			□ Pap Smear Storage □ Urine Storage ➤ Other Storage: Vaginal S OTHER □ COAG – APTT □ COAG – INR □ COAG – PT □ Pregnancy Test (urine)				
☐ Lipase			Toxoplasma	IgG							
☐ LDL Cholesterol			Other:					y Test (serum)			
☐ Phosphorus							Other:				
☐ Potassium		1000	CLECULAR								
☐ Protein (CSF)			☐ CT/NG SDA				COMMENTS:				
□ Sodium			HIV DNA PCI			_					
☐ Total Protein			HIV RNA PCI			_			-		
☐ Triglycerides			HIV RNA PCI	R (Roche Sta	ndard)	-	_				
Other:	_		Other:		-	-					
CLINIC RAPID TEST RESI	_					_					
Test R	teactive	Non-Reactive	Test Date	e Tin	е	Tester ii	CII	nician Review	Date		
Determine HIV											
UniGold HIV (FDA)											
UniGold (non-FDA)											

Communication between the clinic and laboratory is KEY!