

Hypertension Tool in Electronic Medical Record System

STANLEY NGOMA – MOH, Malawi CQUIN WORKSHOP – TOOLS LAB

APRIL 2024

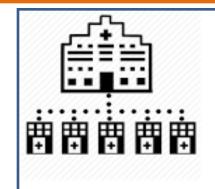


Introduction



- The Malawi 2022 HIV treatment guidelines recommend integration of annual HTN screening & management in adults aged > 30years
- Several tools have since been introduced by MoH and various implementing partners to monitor the service integration
- The Hypertension module is one of the tools for monitoring HTN screening and Management among PLHIV in ART clinics

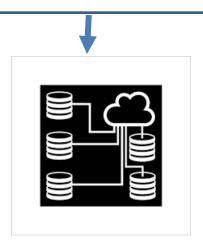
Point of Care System improves clinical quality of care



Clinic Based EMRS

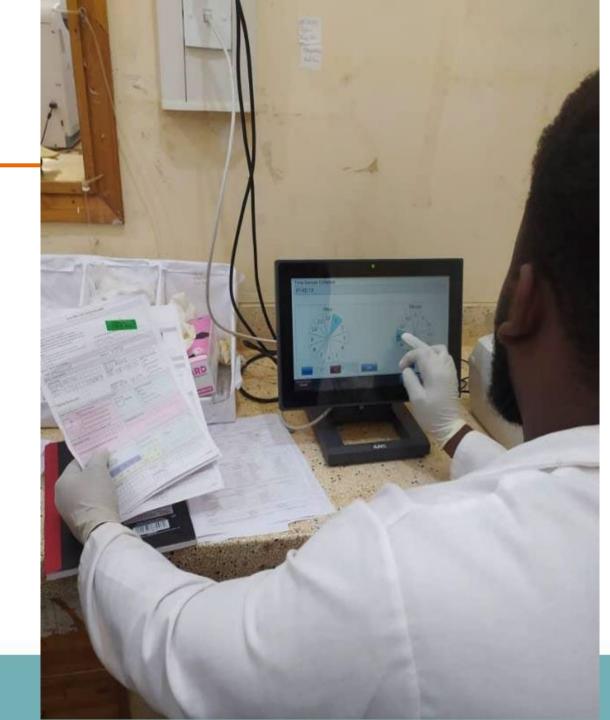
247 Clinics -HIV - Point of Care Systems

504 Clinics - HIV – e-master Card22 Clinics - HIV – Other Systems



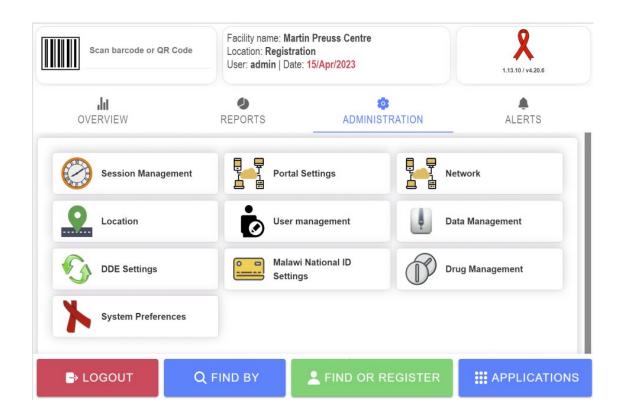
Central Data Repository

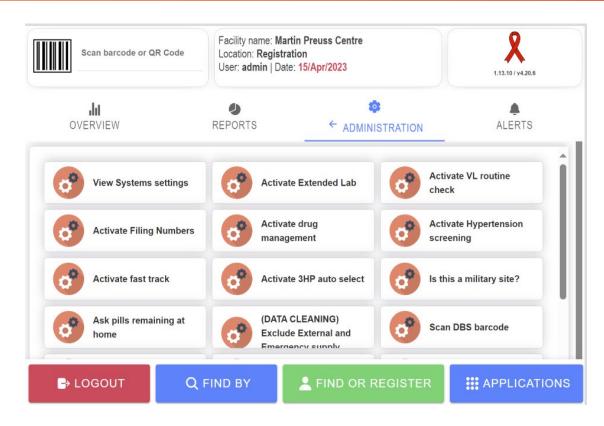




Administrative Tasks



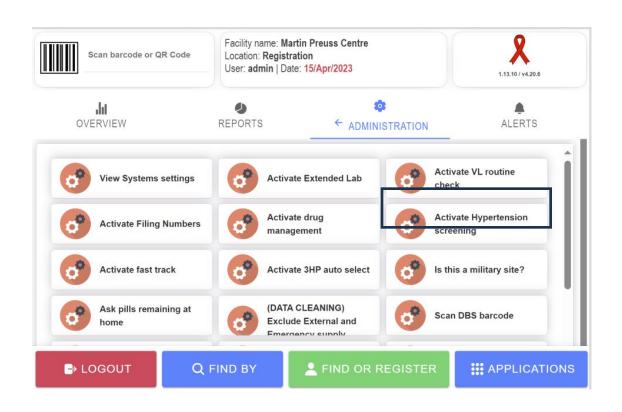


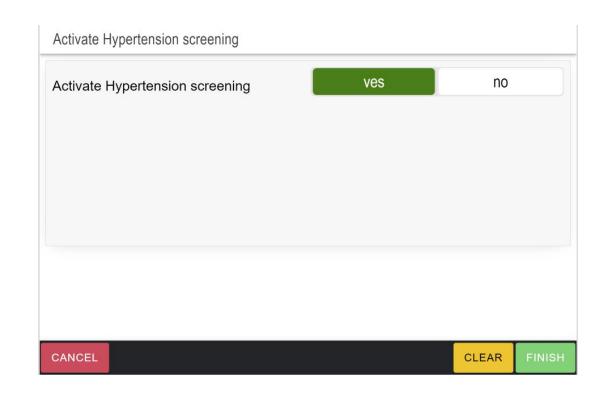


Under Administrative Tasks--> System Preferences set Hypertension screening preferences

Activating Hypertension Screening module

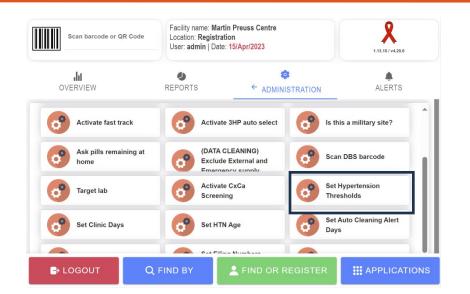


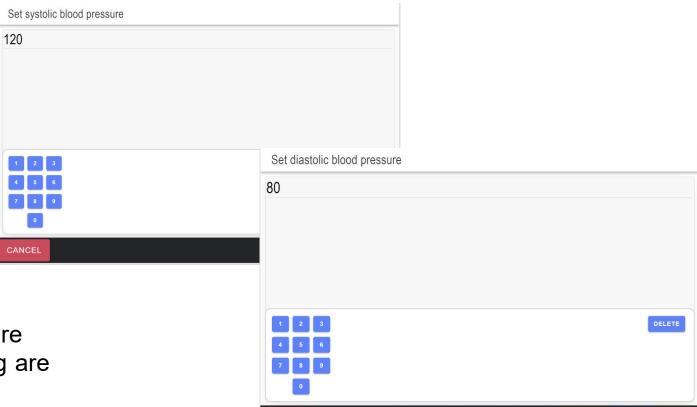




Setting the Hypertension Threshold



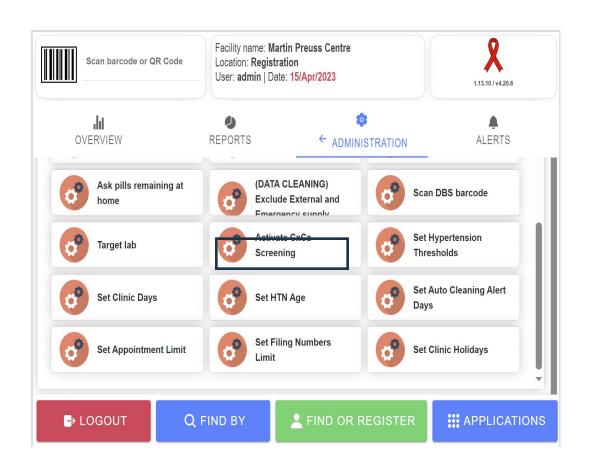




Set the systolic and diastolic blood pressure readings; the system will flag once reading are equal to or greater than set

Setting HTN age threshold

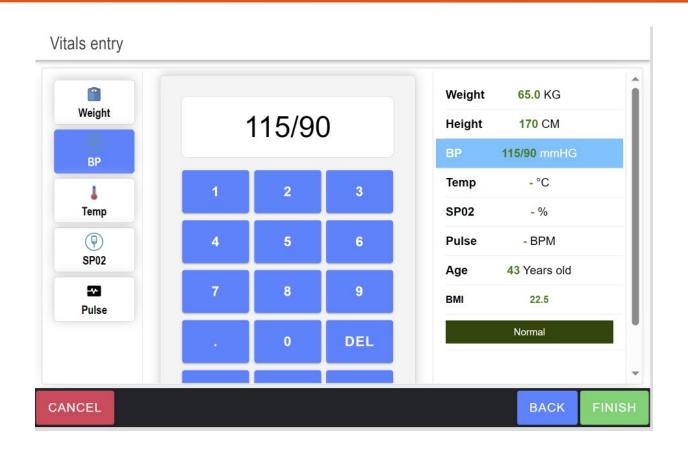






BP Screening at Vitals Workstation



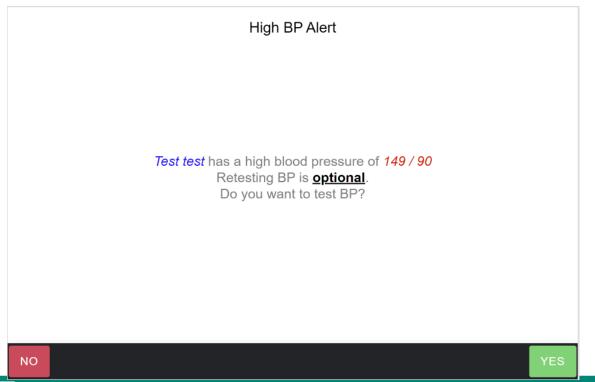


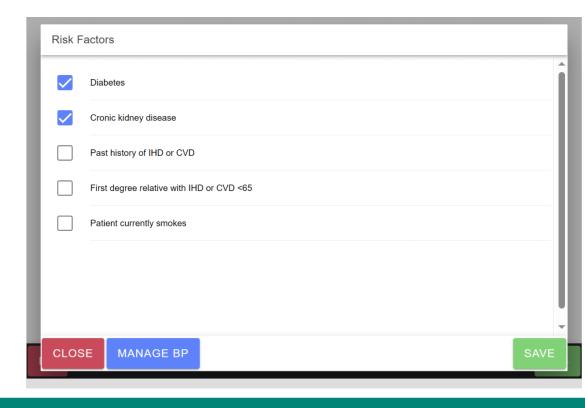
After the client has gone through the clinic reception/registration, the next vitals workstation is used to capture height, weight and BP readings.

BP Alert



In the consultation workflow, the system will flag an alert with a high BP reading captured during vitals. The provider may choose to retake BP readings or click "No" and manage BP or add risk factors according to assessment.



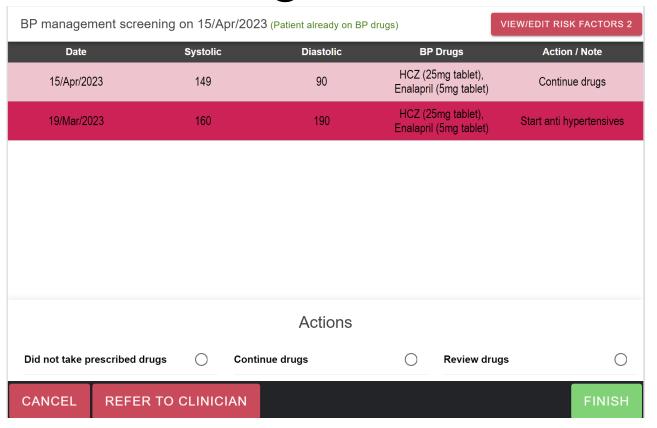


BP Management- New client



BP manager	ment screening or	n 15/Apr/202	23			ADD RISKFACTORS
Date		Systolic	Diastolic		BP Drugs	Action / Note
19/Mar/2	2023	190	190			
			Actions			
Lifestyle advid	Lifestyle advice given		vet stable on ART	\circ	Patient declining	BP drugs
Start anti hype	ertensives	0				
CANCEL	REFER TO C	LINICIAN			HYPERTENSI	ON DIAGNOSIS

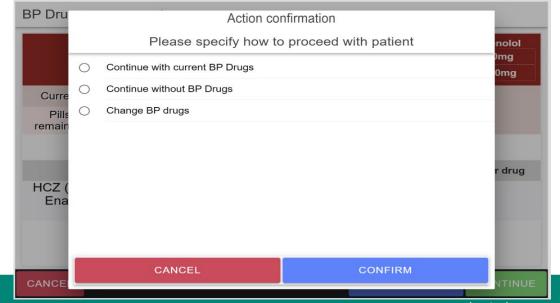
BP Management- Clients Already Enrolled in HTN Program



BP Drug Management

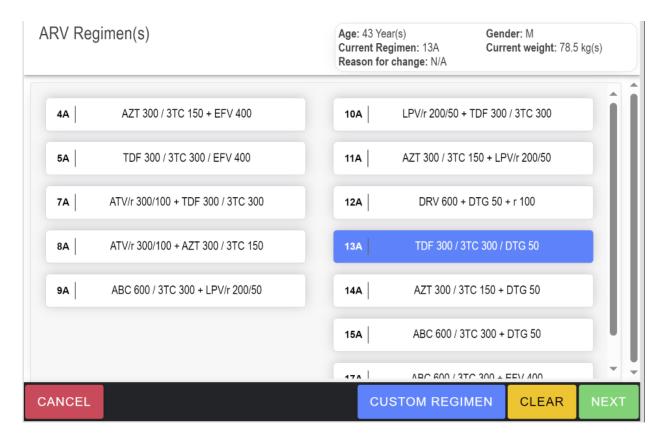


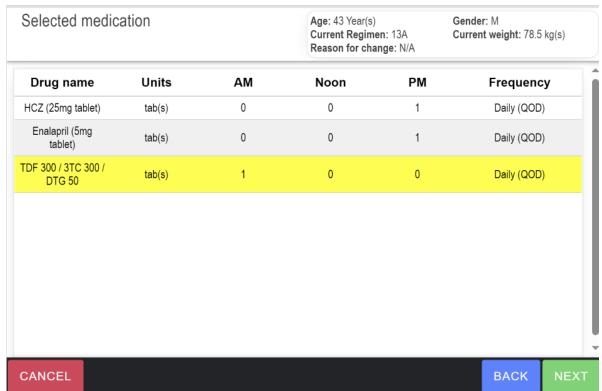
BP Drug management **Amlodipine Atenolol** HCZ **Enalapril** 5mg 50mg 25mg 5mg 10mg 100mg 10mg Current Pills 0 remaining Adherence summary Pills dispensed during **Expected pills remaining** Adherence for drug Drug last visit -312 8 % HCZ (25mg tablet) 30 Enalapril (5mg 30 -312 tablet) **CANCEL CHANGE DRUGS** CONTINUE This section allows the user to enter the pills remaining and calculates drug adherence. If there is a need to change drugs the user may click the "Change Drugs" button. After the pills remaining have been entered click "Continue" to confirm.



Prescription



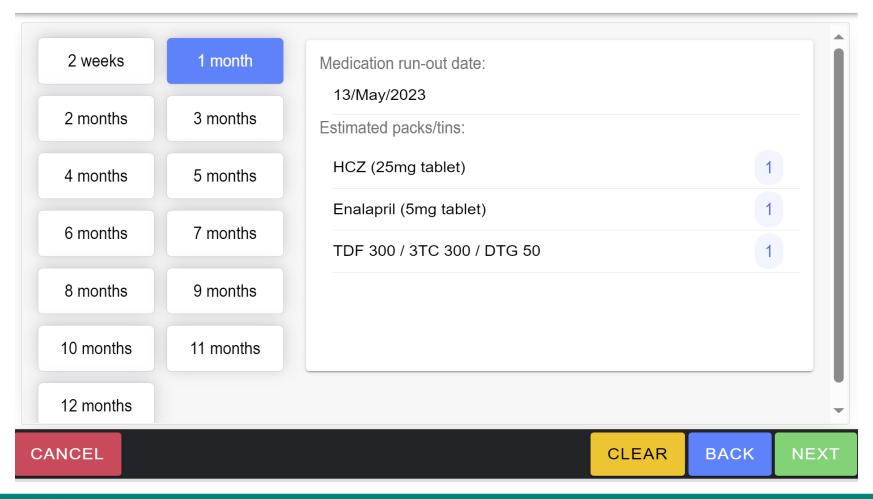




Interval to Next Visit



Interval to next visit



The EMR helps you synchronize HIV care and NCD care visits

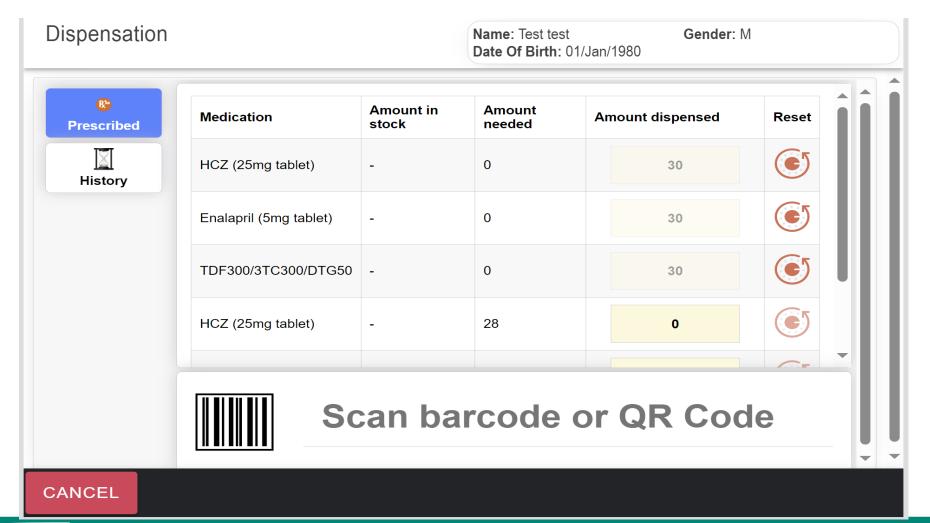
Appointment Booking



S	May 2023							
	M	Т	W	Т	F	S	Medication Run out Date 13/May/2023	
	1	2	3	4	5	6	User set appointment date	
7	8	9	10	11	12	13	11/May/2023	
14	15	16	17	18	19	20	Appointments 0	
14	10	10	17	10	13	20	Appointment limit (per/day)	
21	22	23	24	25	26	27	0	
28	29	30	31					

Drug Dispensation

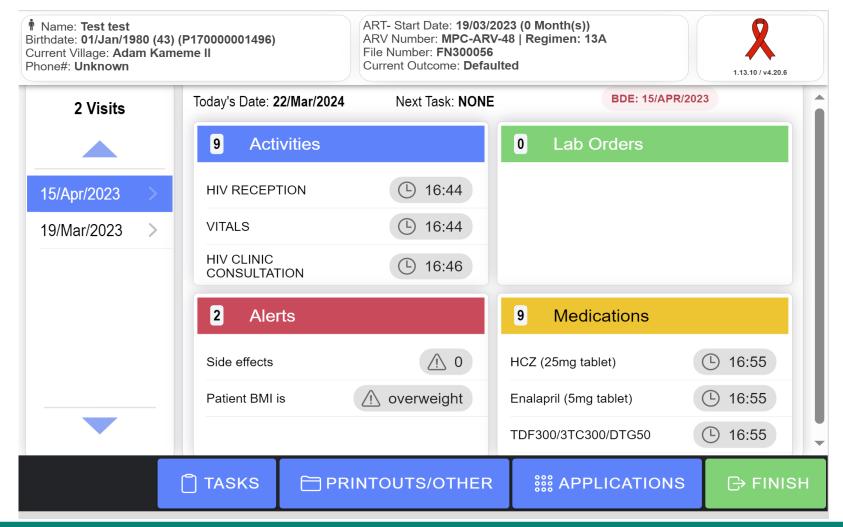




AT most ART sites in Malawi, HIV drug are dispensed within the ART consultation room while NCD drugs are dispensed in a pharmacy. The Printout from ART shows all drugs prescribed

Patient Dashboard





Hypertension Report



#	Age group	Gender	Screened for HP	Normal <140/<90	Mild 140- 159/90- 99	Moderate 160- 180/100- 110	Severe >180/>110	Hydrochlorothiazide 25mg
1	20-24 years	Female	0	0	0	0	0	0
2	25-29 years	Female	1	0	0	0	1	0
3	30-34 years	Female	0	0	0	0	0	0
4	35-39 years	Female	0	0	0	0	0	0
5	40-44 years	Female	0	0	0	0	0	0
6	45-49 years	Female	0	0	0	0	0	0
7	50-54 years	Female	0	0	0	0	0	0

Further Enhancement to the HTN Tool



Prompt to check for complications

Include other drug classes not here

Patient dashboard to include an alert for all hypertensive patients

Include other drugs such as statins







Thank you