

Development and deployment of the OpenMRS-Ebola Electronic Health Record System for an Ebola Treatment Centre In Sierra Leone

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Multimedia appendix 2:

Complete screenshots of the tablet-based OpenMRS-Ebola application

Primary use – Red (infectious) zone of Ebola Treatment Center

Tablet: team and ward selection

devtest03.openmrs.org:8080/openmrs/ms/uiframework/

Login

TEAM *(Select one)*

Team1 Team2 Team3 Team4

Team5 Team6

PRESCRIBER ID NUMBER

C

devtest03.openmrs.org:8080/openmrs/ms/uiframework/

Please select a ward Logout

Suspect Wards

Suspect Ward 1
6 patients

Suspect Ward 2
2 patients

Suspect Ward 3
0 patients

Confirmed Wards

Confirmed Ward 1
5 patients

Confirmed Ward 2
5 patients

Confirmed Ward 3
1 patients

Confirmed Ward 4
0 patients

Confirmed Ward 5
1 patients

Confirmed Ward 6
0 patients

Recovery Wards

Recovery Ward 1
0 patients

Test Ward 1
0 patients

Tablet: patient selection and summary

devtest03.openmrs.org:8080/openmrs/ms/uiframework/1

[Back](#) Please select a patient *Suspect Ward 1*

Joseph Manzaray KT-2-02345 Bed #1	Asdf Asdfadfasdf KT-0-13423 Bed #6
Martin Liu KT-3-90191 Bed #2	Mary Andama KT-3-00015 Bed #7
Kirsty Porter KT-2-03040 Bed #3	Osama Shoiup KT-1-12345 Bed #8

[Suspect Ward 1](#) [Actions](#)

PATIENT ID: **KT-0-13423** NAME: **asdf asdfadfasdf** GENDER - AGE: **F - 30** BED WARD: **6 Susp 1**

Vitals [Capture vitals](#)

31 Mar 23:07	AVPU: V	T: 33.3 °C	Pulse: 20	Resp: -	O ₂ : -	BP: - / -
31 Mar 23:04	AVPU: U	T: 33.4 °C	Pulse: -	Resp: -	O ₂ : -	BP: - / -

Symptoms [Capture symptoms](#)

31 Mar 23:04	Short of breath Diarrhoea, Nose/Mouth bleeding, Urine bleeding,
26 Mar 13:04	Confusion, Head pain

Active Prescriptions [Show All](#)

AMOXICILLIN Amoxicillin 250mg/5mL Powder for Suspension 100 mL
(13 Mar 13:26) 1 mg Oral each Afternoon - Never administered (prescribed by: Super User)

[Administer](#) [Edit](#) [Stop](#)

IV Fluids [Show All](#)

PHOSPHATE POLYFUSOR @ 100 mL/hr IV for 2 hours
(ordered 17 Mar 16:35 by Super User) - STARTED: 17 Mar 16:35

[Start](#) [Restart](#)
[Hold](#) [Stop](#)

DEXTROSE 5% IN NORMAL SALINE @ 75 mL/hr IV for 4 hours
(ordered 17 Mar 16:36 by Super User) - NOT STARTED

[Start](#) [Restart](#)
[Hold](#) [Stop](#)

Note: All patients and data included here are fictitious

Tablet: action menu

The screenshot displays a mobile application interface for a patient record. The browser address bar shows the URL: devtest03.openmrs.org:8080/openmrs/ms/uiframework/1. The patient record is titled "Suspect Ward 1" and includes the following information:

- PATIENT ID:** KT-0-13423
- NAME:** asdf asdfasdf
- GENDER - AGE:** F - 30

The record is divided into several sections:

- Vitals:** Includes "Capture vitals" and two entries:
 - 31 Mar 23:07 AVPU: V T: 33.3°C Pulse: 20 Re
 - 31 Mar 23:04 AVPU: U T: 33.4°C Pulse: - Re
- Symptoms:** Includes "Capture symptoms" and three entries:
 - 31 Mar 23:04 Short of breath
Diarrhoea, Nose/Mouth bleeding
 - 26 Mar 13:04 Confusion, Head pain
- Active Prescriptions:** Includes "Show All" and one entry:
 - AMOXICILLIN** Amoxicillin 250mg/5mL Powder for Suspension 100 mL
(13 Mar 13:26) 1 mg Oral each Afternoon - Never administered (prescribed by: Super User)
- IV Fluids:** Includes "Show All" and two entries:
 - PHOSPHATE POLYFUSOR** @ 100 mL/hr IV for 2
(ordered 17 Mar 16:35 by Super User) - STARTED: 17 Mar
 - DEXTROSE 5% IN NORMAL SALINE** @ 75 mL
for 4 hours
(ordered 17 Mar 16:36 by Super User) - NOT STARTED

An "Actions" menu is overlaid on the right side of the screen, featuring a close button (X) and four options:

- Add new prescription
- Add IV fluid order
- Capture Vitals
- Capture Symptoms

Tablet: drug selection

devtest03.openmrs.org:8080/openmrs/ms/uiframework/

PATIENT ID: **KT-0-13423** NAME: **asdf asdfadfasdf** GENDER - AGE: **F - 30** BED WARD: **6 Susp 1**

New Prescription

AMOXICILLIN	METRONIDAZOLE
AMOXICILLIN AND CLAVULANIC ACID	MORPHINE SULFATE
ARTEMETHER-LUMEFANTRINE	MULTIVITAMIN
CEFIXIME	OMEPRAZOLE
CEFTRIAXONE	ONDANSETRON
CIPROFLOXACIN	PARACETAMOL
DIAZEPAM	SODIUM BICARBONATE
GAVISCON	VITAMIN A
HALOPERIDOL	VITAMIN K
IVERMECTIN	ZINC SULFATE

Cancel

devtest03.openmrs.org:8080/openmrs/ms/uiframework/

PATIENT ID: **KT-0-13423** NAME: **asdf asdfadfasdf** GENDER - AGE: **F - 30** BED WARD: **6 Susp 1**

Choose Formulation

Oral - Oral suspension

Amoxicillin 250mg/5mL Powder for Suspension 100 mL

Oral - Capsule

Amoxicillin 500mg Capsules

Back

Tablet: drug details

devtest03.openmrs.org:8080/openmrs/ms/uiframework/1

PATIENT ID: **KT-0-13423** NAME: **asdf asdfasdf** GENDER - AGE: **F - 30** BED WARD: **6 Susp 1**

AMOXICILLIN *Amoxicillin 500mg Capsules*

ROUTE *(Required)*

Oral

DOSE *(Required, >0)*

tablet(s)

DOSING

OR

TIME OF DAY *(Select one or more)*

DURATION *(Optional, >0)*

days

OPTIONS

PRN

Tablet: drug administration

The screenshot displays a medical software interface for drug administration. At the top, a navigation bar shows a back arrow, the text "Suspect Ward 1", and an "Actions" menu icon. Below this, patient information is displayed: "PATIENT ID: KT-0-13423", "NAME: asdf asdfasdf", "GENDER - AGE: F - 30", "BED: 6", and "WARD: Susp 1".

The main content area is partially obscured by a modal window. The modal window title is "AMOXICILLIN Amoxicillin 250mg/5mL Powder for Suspension 100 mL" with a close button (X). Below the title, it says "1 mg by Oral each Afternoon". The modal prompts the user to "AMOUNT GIVEN (Select one)" and provides three buttons: "Fully Given", "Not Given", and "Partially Given". A yellow "Save" button is located at the bottom left of the modal.

In the background, under the "Active" section, there is an order for "AMOXICILLIN Suspension 100 mL" with a note: "(13 Mar 13:26) 1 mg Oral each Afternoon - Never administered (prescribed by: Super User)". Below this order are buttons for "Administer", "Edit", and "Stop".

The "IV Fluids" section is visible below, with a "Show All" link. It lists two orders:

- PHOSPHATE POLYFUSOR** @ 100 mL/hr IV for 2 hours (ordered 17 Mar 16:35 by Super User) - STARTED: 17 Mar 16:35. Buttons: Start, Restart, Hold, Stop.
- DEXTROSE 5% IN NORMAL SALINE** @ 75 mL/hr IV for 4 hours (ordered 17 Mar 16:36 by Super User) - NOT STARTED. Buttons: Start, Restart, Hold, Stop.

Tablet: IV fluid ordering

devtest03.openmrs.org:8080/openmrs/ms/uiframework/i

PATIENT ID: KT-0-13423 NAME: asdf asdfadfasdf GENDER - AGE: F - 30 BED WARD: 6 Susp 1

New IV Fluid Order

NORMAL SALINE	RINGER'S LACTATE
NORMAL SALINE KCL 20 MMOL/L	DEXTROSE 5% IN WATER
NORMAL SALINE KCL 40 MMOL/L	DEXTROSE 10% IN WATER
PHOSPHATE POLYFUSOR	DEXTROSE 5% IN NORMAL SALINE
SODIUM BICARBONATE 1.26% POLYFUSOR	

Cancel

devtest03.openmrs.org:8080/openmrs/ms/uiframework/i

PATIENT ID: KT-0-13423 NAME: asdf asdfadfasdf GENDER - AGE: F - 30 BED WARD: 6 Susp 1

Normal Saline

IV Bolus **Infusion**

Infusion Rate (select one)

KVO	50 mL/hr	75 mL/hr	100 mL/hr
125 mL/hr	150 mL/hr	200 mL/hr	500 mL/hr

for (select one)

Continuous	1 hr	2 hrs	4 hrs
6 hrs	8 hrs	12 hrs	24 hrs

Comments

Back **Save**

Tablet: IV fluid monitoring

devtest03.openmrs.org:8080/openmrs/ms/uiframework/1

< Suspect Ward 1 **≡ Actions**

PATIENT ID: **KT-0-13423** NAME: **asdf asdfadfasdf** GENDER - AGE: **F - 30** BED: **6** WARD: **Susp 1**

STARTED D5 in normal saline

Vitals [Capture vitals](#)

31 Mar 23:07	AVPU: V	T: 33.3 °C	Pulse: 20	Resp: -	O ₂ : -	BP: - / -
31 Mar 23:04	AVPU: U	T: 33.4 °C	Pulse: -	Resp: -	O ₂ : -	BP: - / -

Symptoms [Capture symptoms](#)

31 Mar 23:04	Short of breath Diarrhoea, Nose/Mouth bleeding, Urine bleeding,
26 Mar 13:04	Confusion, Head pain

Active Prescriptions [Show All](#)

AMOXICILLIN Amoxicillin 250mg/5mL Powder for Suspension 100 mL
(13 Mar 13:26) 1 mg Oral each Afternoon - Never administered (prescribed by: Super User)

Administer **Edit** **Stop**

IV Fluids [Show All](#)

PHOSPHATE POLYFUSOR @ 100 mL/hr IV for 2 hours (ordered 17 Mar 16:35 by Super User) - HELD: 7 Apr 14:09	Start	Restart
	Hold	Stop
DEXTROSE 5% IN NORMAL SALINE @ 75 mL/hr IV for 4 hours (ordered 17 Mar 16:36 by Super User) - STARTED: 7 Apr 14:10	Start	Restart
	Hold	Stop

Tablet: vitals and symptoms

devtest03.openmrs.org:8080/openmrs/ms/uiframework/i

PATIENT ID: KT-0-13423 NAME: asdf asdfadfasdf GENDER - AGE: F - 30 BED WARD: 6 Susp 1

CURRENT CONSCIOUSNESS

A V P U

Temp: °C

Pulse: beats/min

Resp. Rate: breaths/min

O2 Sat: %

Blood Pressure: mmHg / mmHg

Cancel Save

devtest03.openmrs.org:8080/openmrs/ms/uiframework/i

PATIENT ID: KT-0-13423 NAME: asdf asdfadfasdf GENDER - AGE: F - 30 BED WARD: 6 Susp 1

SYMPTOMS *(select appropriate option)*

General: Confusion, Fatigue, Dehydration, Rash, Pallor

Pain: Head, Muscle/Joint, Chest, Abdomen

Resp: Short of breath, Cough, Hiccups

GI: Diarrhoea, Vomiting, Nausea

Bleeding: Nose/Mouth, Vomitus, Cough, IV Site, Stool, Vagina, Urine

Stage: 1 - Early/Dry, 2 - GI/Wet, 3 - Severe

Cancel Save