

## Overview

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Lynx Healthcare Framework is a cloud-based healthcare software application which is used to manage patient workflow, electronic medical records (EMR), patient data management, consultations (in person or virtual) by healthcare service providers and comprehensive reporting providing the ultimate solution for prevalence studies, wellness and occupational health screening and primary healthcare consulting.

The patient's clinical information is captured and persisted in a database hosted in the cloud and is accessible from any location on a range of various devices (web, mobile, tablets) by users (doctors, nurses, patients & healthcare personnel and service providers) in different roles with varying access & control levels. Various service providers at different locations can contribute to a patient consultation and medical record in real-time independent of where a patient is consulted or situated.

The HCF software has a modern and user-friendly interface and ensures the ease of capturing the following relevant data as well as historic medical and clinical information encapsulated in the EMR:

- » Patient Details, Biometrics Etc.
- » History
- » Vitals (Blood Pressure, Glucose Levels, BMI, Heart Rate, Respiratory Rate, Etc.)
- » Examinations (General, Eye, Ear, Pregnancy, Cardio, Dentistry, Etc.)
- » Diagnoses
- » Treatments (Medication, Procedures & Immunizations)
- » Electronic Referrals, Sick Letters and Certificates of Fitness
- » Electronic Prescriptions
- » Patient Management and Intelligent Notification Services
- » Digital Cabinet
- » Clinical and Statistical Reporting

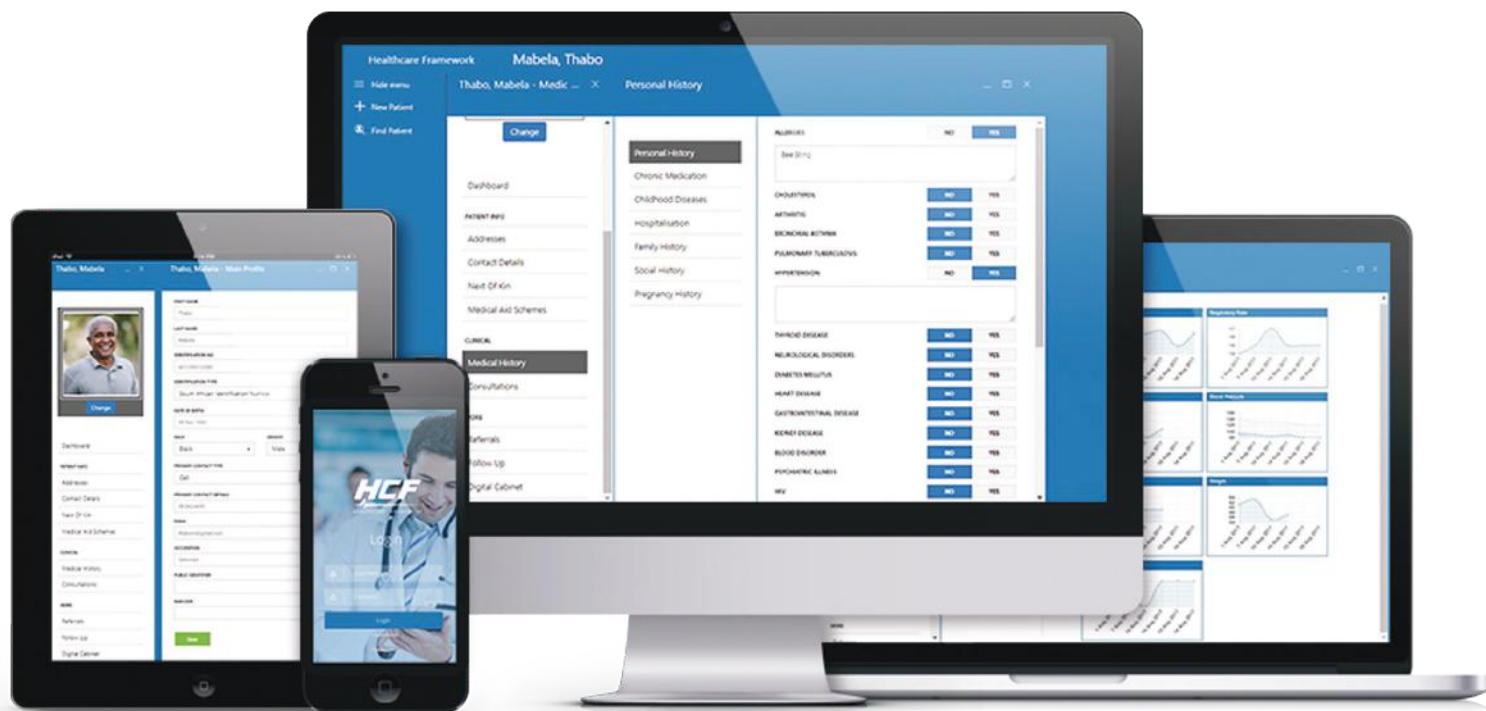
With each visit to the clinic / service provider a new consultation is completed for the specific patient. Patients will have multiple consultations linked to, or contained in their EMR and consultations can be threaded together to provide an overview and statistics over time.

Patient's clinical data can be reported on and displayed graphically in the patient's Dashboard in the application. Trends can be monitored, and patients managed accordingly. Various reports can be generated for collective groups.

Medical records can be shared with third parties given authorization and have data stored in one safe place – in the cloud. Mobile and wearable devices can connect and feed real-time data into the EMR giving patients the opportunity to pro-actively contribute to their own healthcare profile.

Healthcare practitioners subscribed to the HCF solution can initiate a tele-medicine video call with patients waiting in the virtual waiting room from the in-app worklist, thereby removing the logistical burden of physical consultations. The rate at which patients can be consulted increases and the time spent per patient is reduced along with administrative functions normally performed by the practitioner's personnel. Prescriptions, referrals, sick notes and certificates are generated by the software and can be printed or distributed electronically.

Healthcare Framework Software provides a holistic approach to patient data management. Documents, images and patient data can be uploaded and linked to patients to conveniently have the patient record available online 24/7.



# Case studies:

## Skin Cancer Screening – Ford Health (Australia)

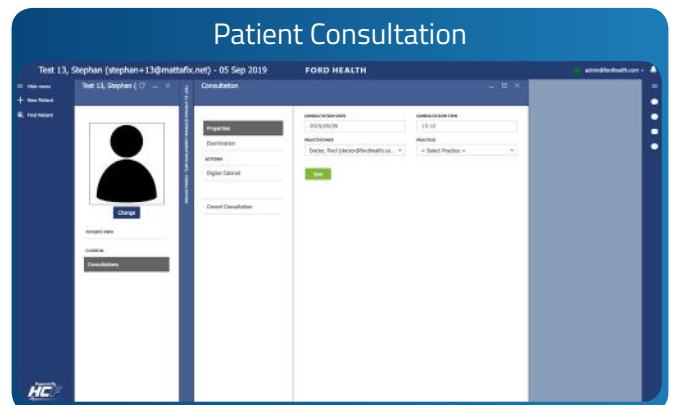
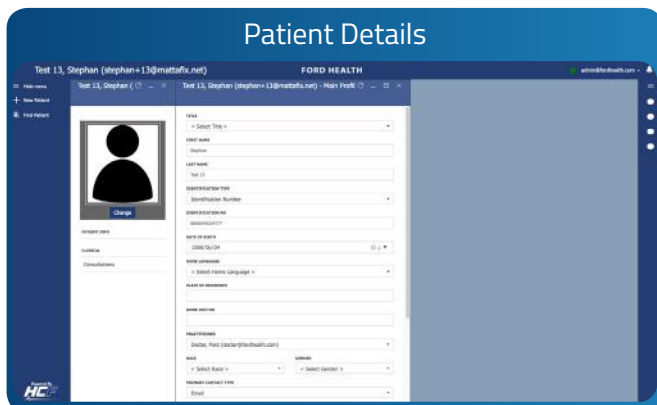
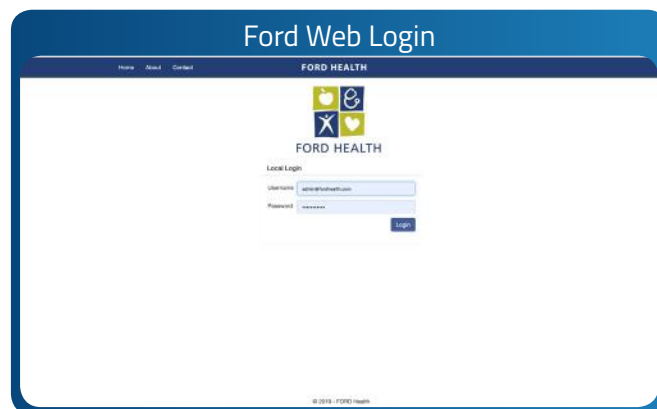
Patients undergo a full skin screening to diagnose skin lesions and refer them for treatment if necessary.

This process has been automated using Lynx-HCF a comprehensive cloud based software solution.

Patients to be screened are uploaded on the web app and consultations scheduled by administration. Patients receive an automated e-mail confirming an appointment and completes a consent form and questionnaire online which is stored in the cloud (EMR).

Once the consultation takes place the doctor has access to the patient's records via PC or mobile device and views relevant history provided by the patient. On examination the doctor simply inputs his findings on the device thus capturing information and populating the EMR.

The doctor then chooses the action to be taken by clicking on simple drop-down menus and the software will forward the report and action plan to the patient as well as scheduling a follow up consultation with the patient.



# Ford Health Screenshots

### Patient Email Confirmation

**FORD HEALTH**

Your consultation with Ford Doctor is scheduled for 24 Jun 2019 14:00. Please click or Copy&Paste the following link to complete your Skin Cancer Check:

<https://test-fordhealth-web-mattafix.net/templates/FORD-SkinCancer.html#9/646e47df-7986-478d-a99e-2c01ce1ec74f/5f6652dc-69be-4f18-8a35-a5e585c55566>

**Need assistance?**  
 Contact us at [info@mattafix.co.za](mailto:info@mattafix.co.za) or call us: 072 080 0334  
 Business hours Mon-Fri CAT

### Mobile Application

Ford Doctor

- Scheduled Consultations  
View all scheduled consultations
- Patients  
View list of patients
- Payment Methods  
Manage your cards
- Sync Actions  
Sync Actions

### Scheduled Consultations

Scheduled Consultations

Find Patient

- + 17 Jun 2019
- + 24 Jul 2019
- + 31 Jul 2019
- John Appleby  
ID No: 7301301234086  
Skin Cancer Check
- John Purple  
ID No: 7901015206058  
Skin Cancer Check
- + 03 Aug 2019
- + 16 Aug 2019
- + 05 Sep 2019

### Patient Questionnaire

#### Skin Cancer Check

#### Patient Questionnaire

1. Have you ever had a melanoma, SCC or BCC cancer?
2. Have you ever had any sunspots treated by freezing or medically prescribed creams (Efudix)?
3. Do you have fair skin that burns easily when in the sun?
4. Did you experience sunburn in childhood?
5. Have any of the following family members had a skin cancer or melanoma?
  - Father
  - Mother
  - Brother
  - Sister
6. Do you use sunscreen when outside for any length of time?
7. Do you have a hobby or occupation which means you spend a large amount of time outdoors?
8. Has it been more than one year since you have had a skin cancer check with a doctor?
9. Have you noticed any changes in the size, texture or colour of moles or freckles that you have not seen a doctor about?
10. Do you have any other concerns about your skin cancer risk?

Please list here:

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#### Doctor's Notes

Comprehensive skin check (excluding genital area)

**NORMAL** FINDINGS

### Doctor's Consultation

#### Doctor's Notes

Comprehensive skin check (excluding genital area)

**NORMAL** FINDINGS

The following conditions were noted:

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#### Referral Letter

Which type of Referral Letter would you like to issue?  
 Treatment Referral Letter

Continue with annual skin checks and routine prevention  
 Visit dr for management of the identified condition

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#### Referral Action

Which type of Referral would you like to issue?  
 No Referral

### Patient Email Referral

**FORD HEALTH**

Date: 24 Jun 2019  
 PLEASE SEE YOUR DR FOR TREATMENT IN THE NEXT 4 Day(s)

The General Practitioner

Dear Doctor  
 Re: Joe Soap DOB: 19 Jul 1970

Recently I saw your patient for a company sponsored skin screening check.

The following conditions were noted:  
 Findings here

I have asked them to:

- Continue with annual skin checks and routine prevention.
- Visit you for management of the identified condition within 4 Day(s)

If you require any further information, please do not hesitate to contact me.

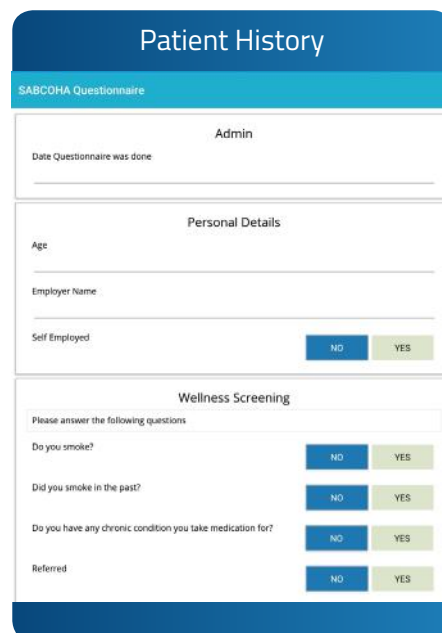
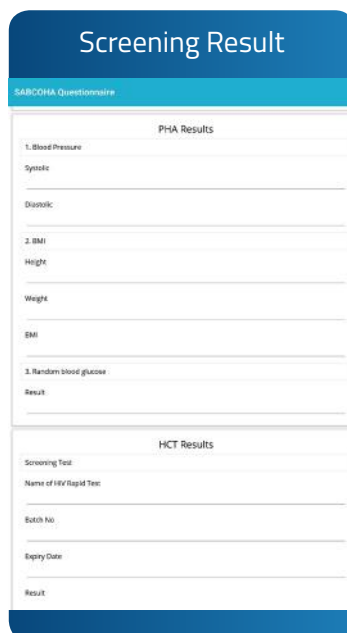
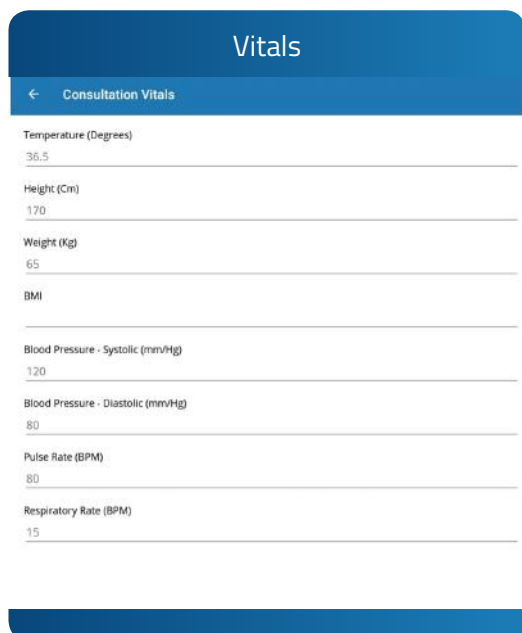
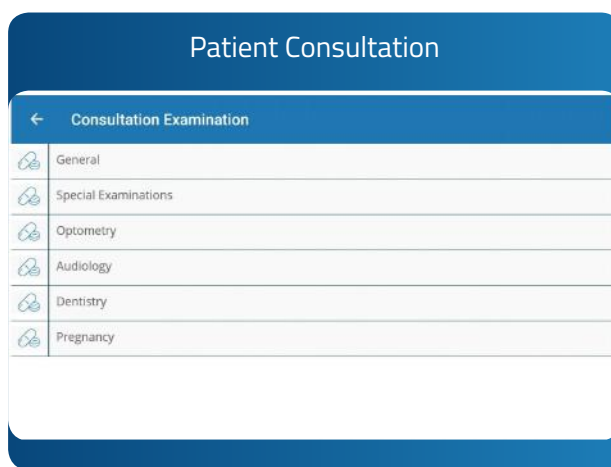
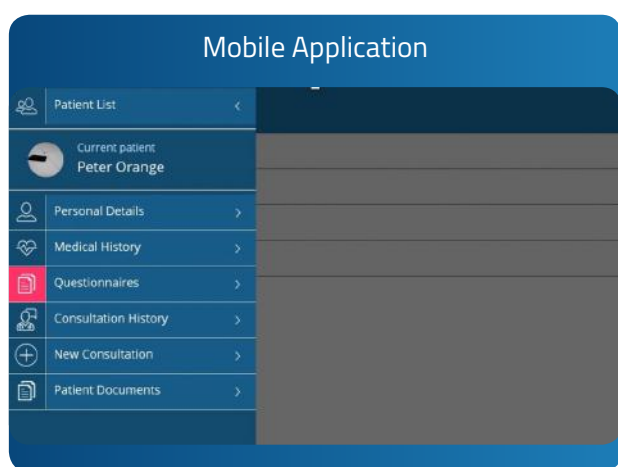
# HIV and Wellness Screening - SABCOHA (South Africa)

Wellness and TB screening on selected groups and areas across South Africa as part of funded prevalence studies by the Global Fund.

Lynx-HCF, a comprehensive cloud based software solution, is used to capture patient questionnaires, history and examination results on site.

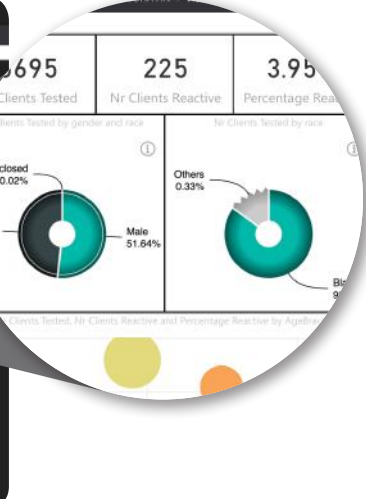
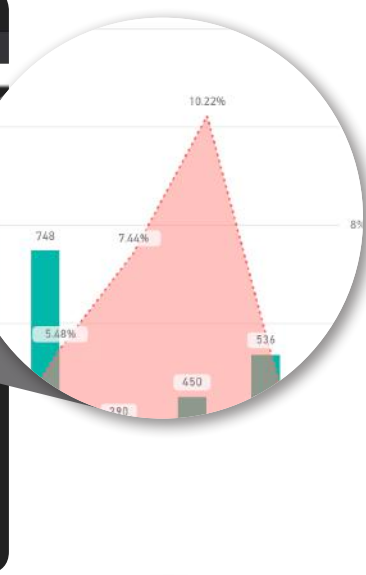
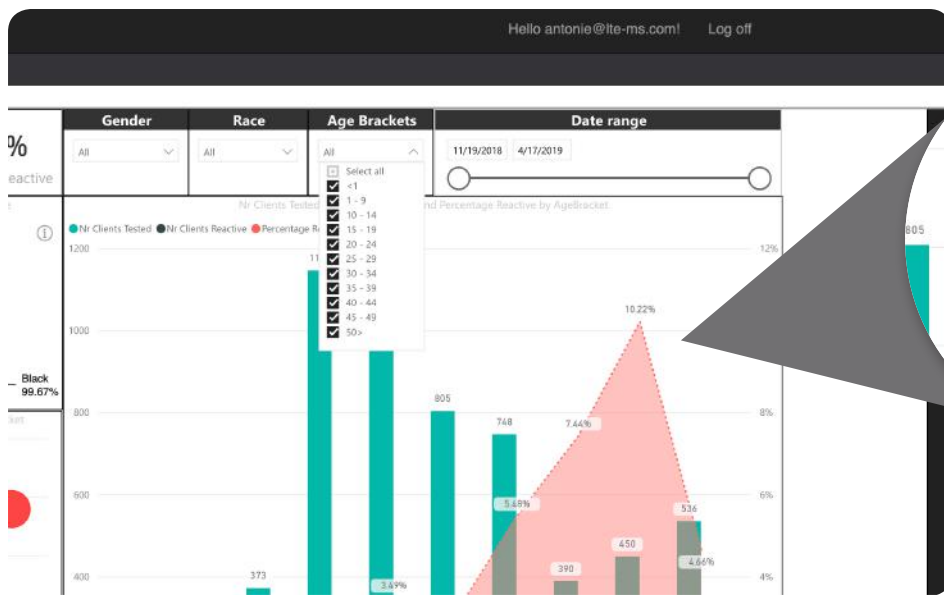
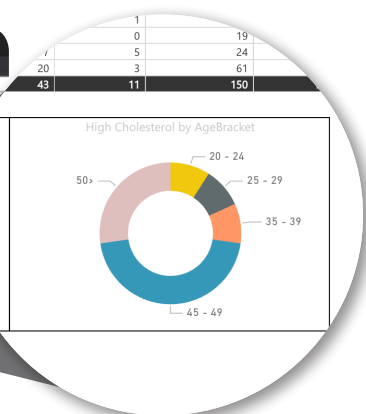
Patients undergo an examination where the vitals and special POC tests (HIV and Glucose) are captured in the software application using a mobile device or web application. All information is stored in the EMR and accessible by users in different roles with varying access and control levels and available in realtime.

Comprehensive reporting and statistical analysis are provided to the funders as all information is digitally captured.





# SABCOHA - Dynamic Reporting



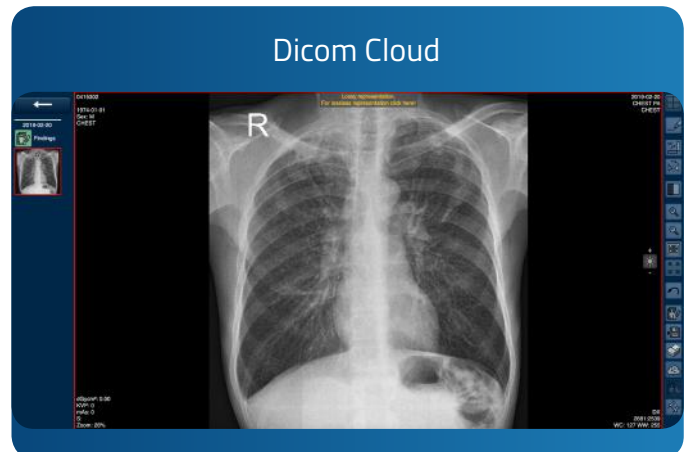
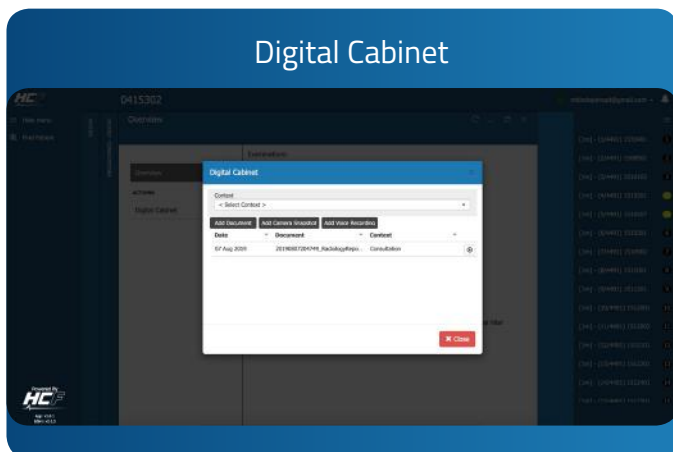
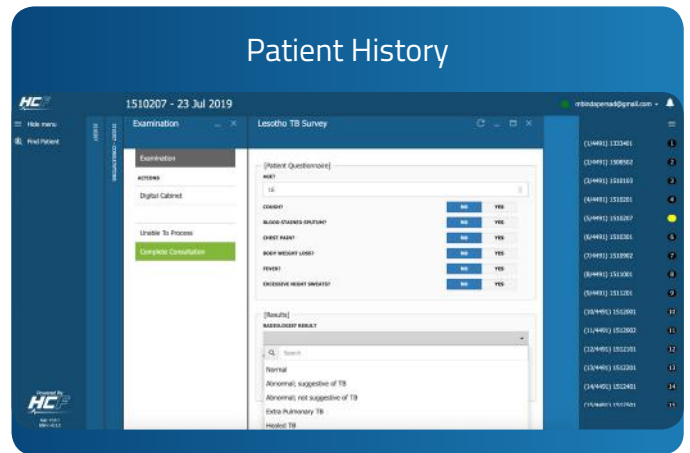
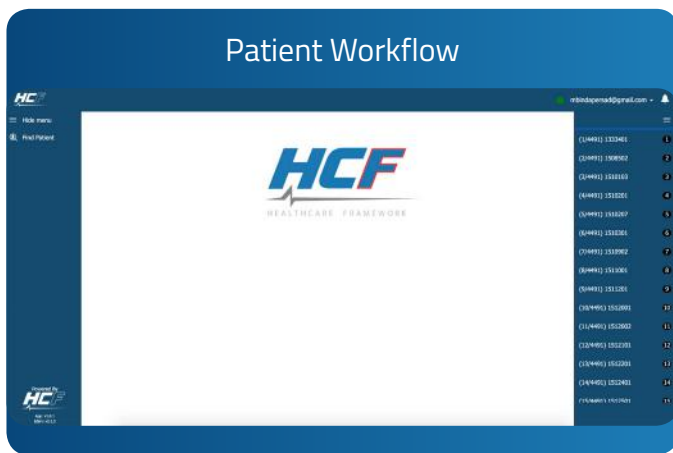
# TB Screening/Radiology Reporting - URC (Lesotho)

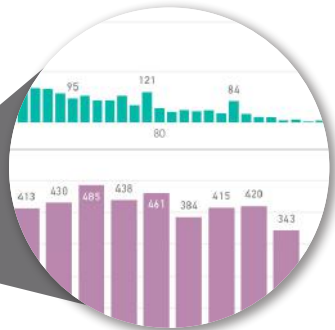
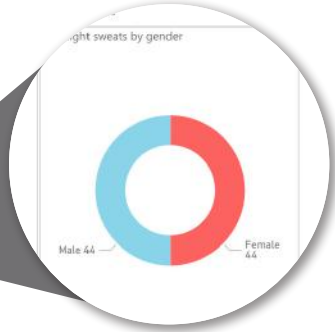
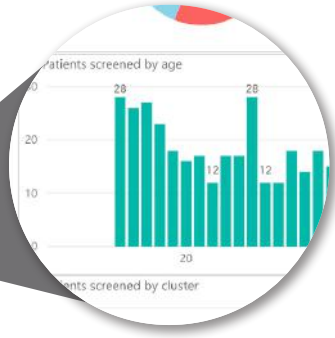
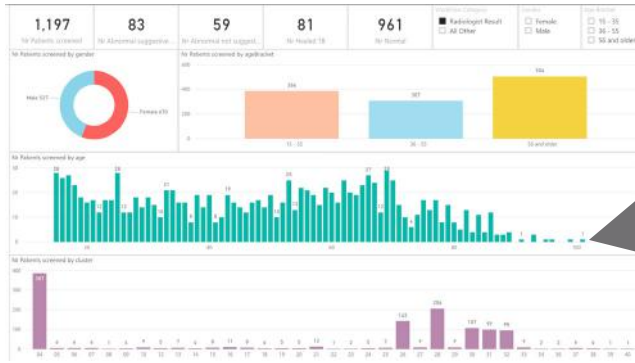
A selected group of the general population from various areas in Lesotho undergoes radiology screening for TB as part of funded prevalence studies by the WHO.

Lynx-HCF, a comprehensive cloud based software solution, captures the patient's data provided through questionnaires as well as the radiology images (DICOM) into the EMR providing an full overview of the patient's history, symptoms and X-Ray results.

The radiologist, based offsite, views the patient's history and X-Ray online and completes the findings thus creating a digital electronic signed report which could be shared or distributed electronically to authorized parties.

Comprehensive reports and statistical analysis are provided to the funders as all information is digitally captured. These reports can be customized to the client's specifications.





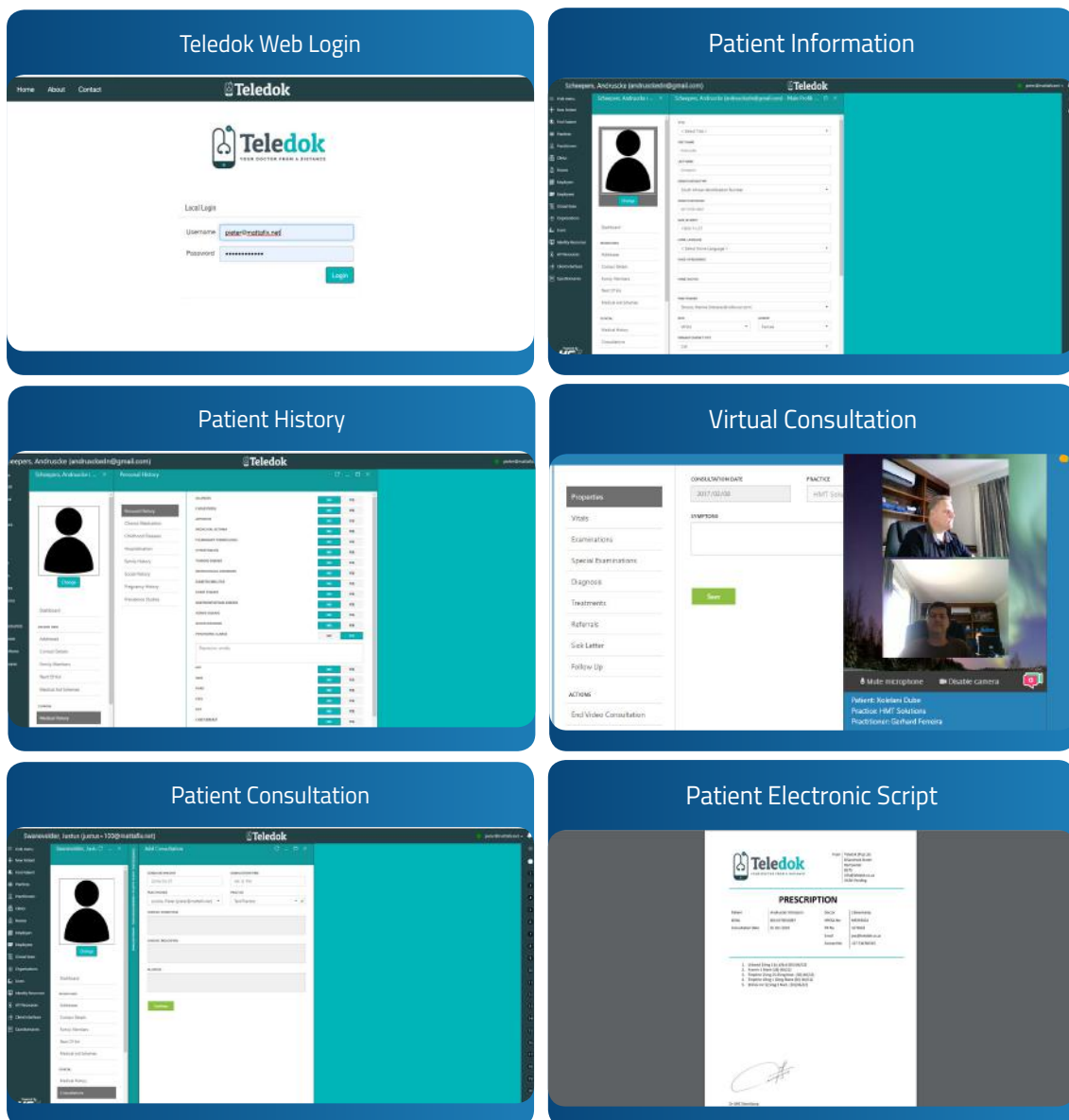


# Teledok - South Africa

Teledok is a comprehensive patient management solution and EMR with virtual consultation & telemedicine functionality. An affordable and time saving application that offers patients or healthcare service providers access to a general practitioner from virtually anywhere.

Teledok allows patients or service providers to connect with a doctor using their phone, tablet or computer. A full history can be taken from the patient using the Teledok service. All Teledok doctors have access to the patient's medical record and history in order to ensure a more accurate diagnosis. Patients can connect with a doctor via text or video consultation indicating their symptoms and a virtual examination can be requested. The doctor can issue electronic scripts, referral letters, sick notes and can schedule patients for follow up.

Your Doctor From A Distance – Available Anytime, Anywhere.



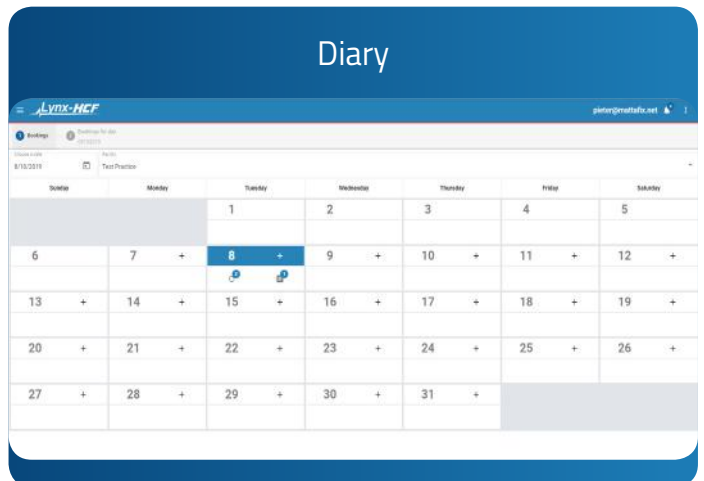
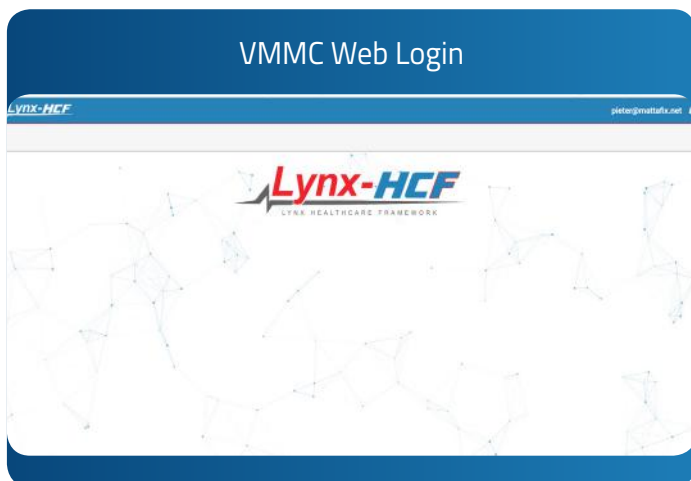
# Voluntary Medical Male Circumcision

Patients undergo voluntary circumcisions as part of funder initiatives. Lynx-HCF a comprehensive cloud based solution, records the patient’s relevant medical history, vitals, physical examination results and surgical procedures.

Lynx-HCF enables different users to perform various tasks related to the patient. The handover procedures ensure accountability and continuity. User login details and task performed by the user is recorded. Information captured within the patient record (EMR) can be viewed by the healthcare provider, ensuring that all the relevant medical information is accessible to the surgeon.

Lynx-HCF implements strict control measures, ensuring data protection and data integrity. The application incorporates a multi-level user rights, affording our clients the ability to define roles and access rights per user group. Users are able to document/record Pre-operative Medical Examination, Post-Operative Review Visit, Surgery Notes and Recovery Room Notes.

Comprehensive reporting and statistical analysis are provided and can be customised to suit our client’s needs.



# Screenshots Voluntary Medical Male Circumcision

## Patient Booking

The screenshot shows a web browser window with the Lynx-HCF interface. The 'Booking' tab is active. The form includes fields for 'Name', 'DOB', 'Identification Type', 'Contact Number', and 'Consultation Date'. A 'Book' button is visible at the bottom right of the form.

## Patient Consultation

The screenshot shows the 'Consultation' tab in the Lynx-HCF system. It displays a patient's details and a list of 'Consultation' entries. The 'Consultation' section includes a table with columns for 'Date', 'Time', 'Status', and 'Notes'. The 'Notes' column contains text such as 'Patient coming up for consultation' and 'Factor up at the facility'.

## Patient Counselling

The screenshot shows the 'Counselling' section of the Lynx-HCF system. It includes a 'Counselling' section with a 'Patient advised to undergo a regular HIV test?' question and a 'HIV Testing History' section with a table of test results. The table has columns for 'Date', 'Result', and 'Status'.

## Patient Referral

The screenshot shows the 'Referral' section of the Lynx-HCF system. It includes a 'Referral' section with a 'The following information is needed for the patient, based on the details supplied.' section. Below this, there are fields for 'Referral Date', 'Referral Status', and 'Referral Notes'.

Other projects: Wound Care