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Minu Monitor – Android Edition

User Guide

This guide provides procedures for Usage guidelines of **Minu Monitor** for **Android Edition**.
The Steps are illustrated in an easy-to-understand manner.

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Disclaimer

- This document is prepared based on Application's Current stable version Minu Monitor Android Edition v2.0.3
- All screenshots are taken using Pixel 3 (OS 12)

NOTE: UI view is handled by native OS version. So, UI color like pop up box color is different in different OS.

Introduction

1. How to use this manual

A. General

- 1) This manual assists user in using Minu Monitor application.
- 2) Standard usage procedures of application that users must know are given in this manual.
- 3) This publication is written in agreement with the ATA Specification.
- 4) Warnings, cautions, and notes in this manual give the data that follows:
 - A NOTE provides information, not commands. The NOTE helps personnel preform a specific instruction.
- 5) Notes follow the applicable paragraph or step.

2. Observance of Manual Instructions

- 1) All personnel must carefully configure the accounts.

3. Illustration

- 1) Supplemental illustrations use a suffix number to the basic figure number. For example, if **Figure 5-1** is used, it signifies that it is an illustration of the item identified by Figure 1 of section 5.

4. Scope

This manual provides steps for Personal smartphone users about the procedure of using the **Minu Monitor - Android Edition** mobile application.

Overview

The Minu Monitor is BroTecs' patented feature-rich software component which enables patients and caretakers to document concerns and new symptoms, generates reports and provide the ability to improve the management of chronic diseases by measuring critical risk indicators at home such as:

- ECG
- Blood Pressure
- Blood Oxygen
- Heart Rate
- Blood Glucose
- Body Temperature
- Body Weight
- Medication Management

The solution has alert capability that can notify healthcare know when patients are in stable or critical conditions. By using the Minu Monitor application patients and caretakers can reduce the need to visit the hospital and feel comfortable knowing that someone is always tracking their loved ones' health needs.

1 Application Launching

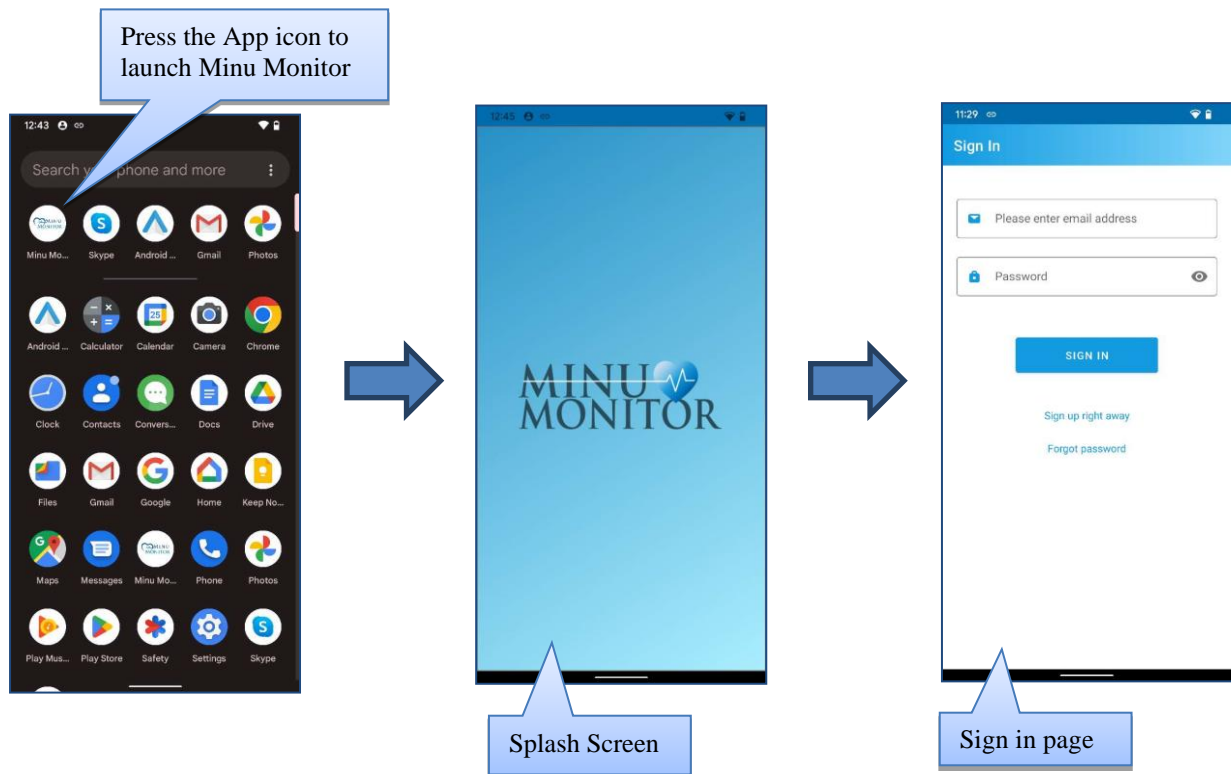
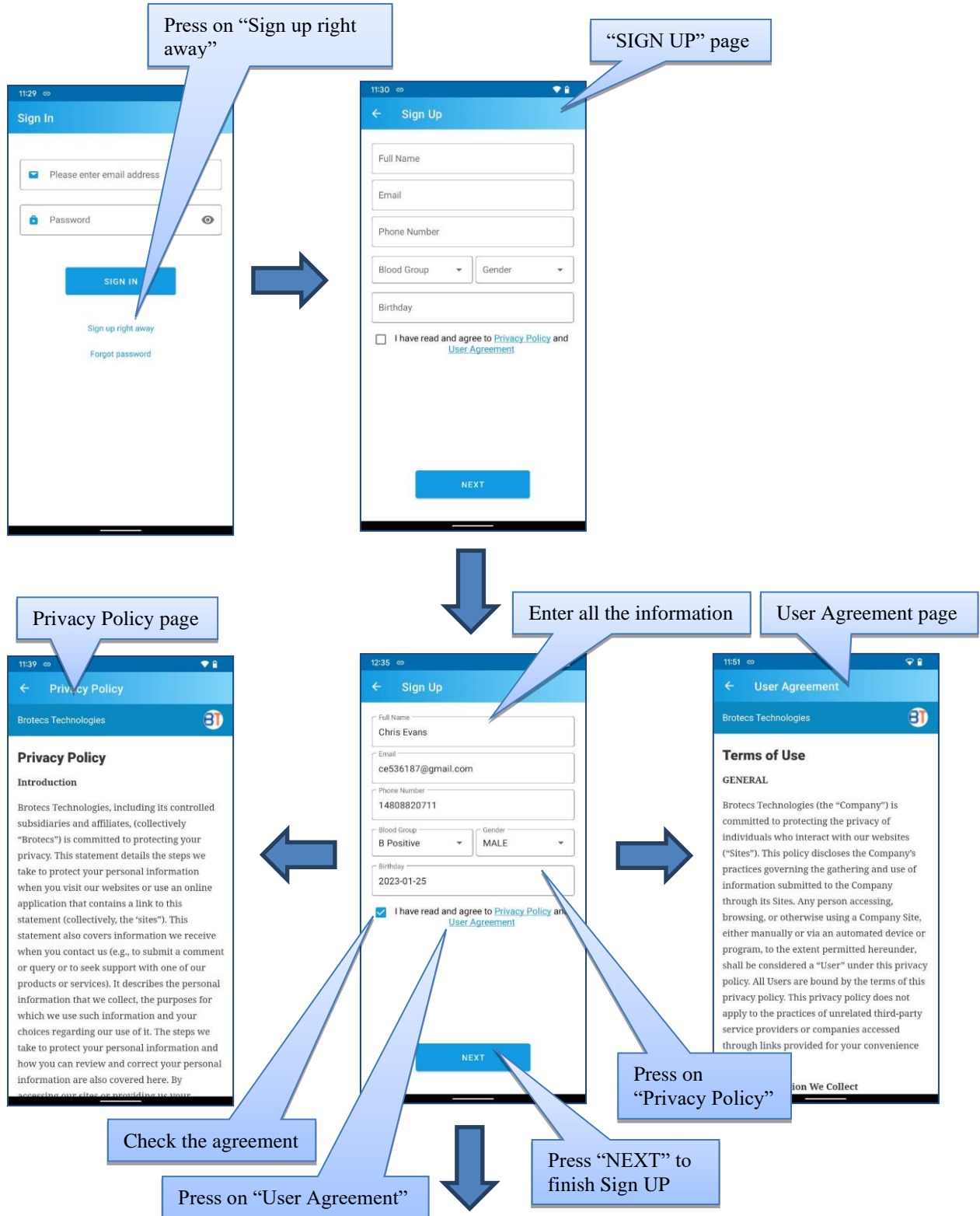


Figure 1-1: Application Launching

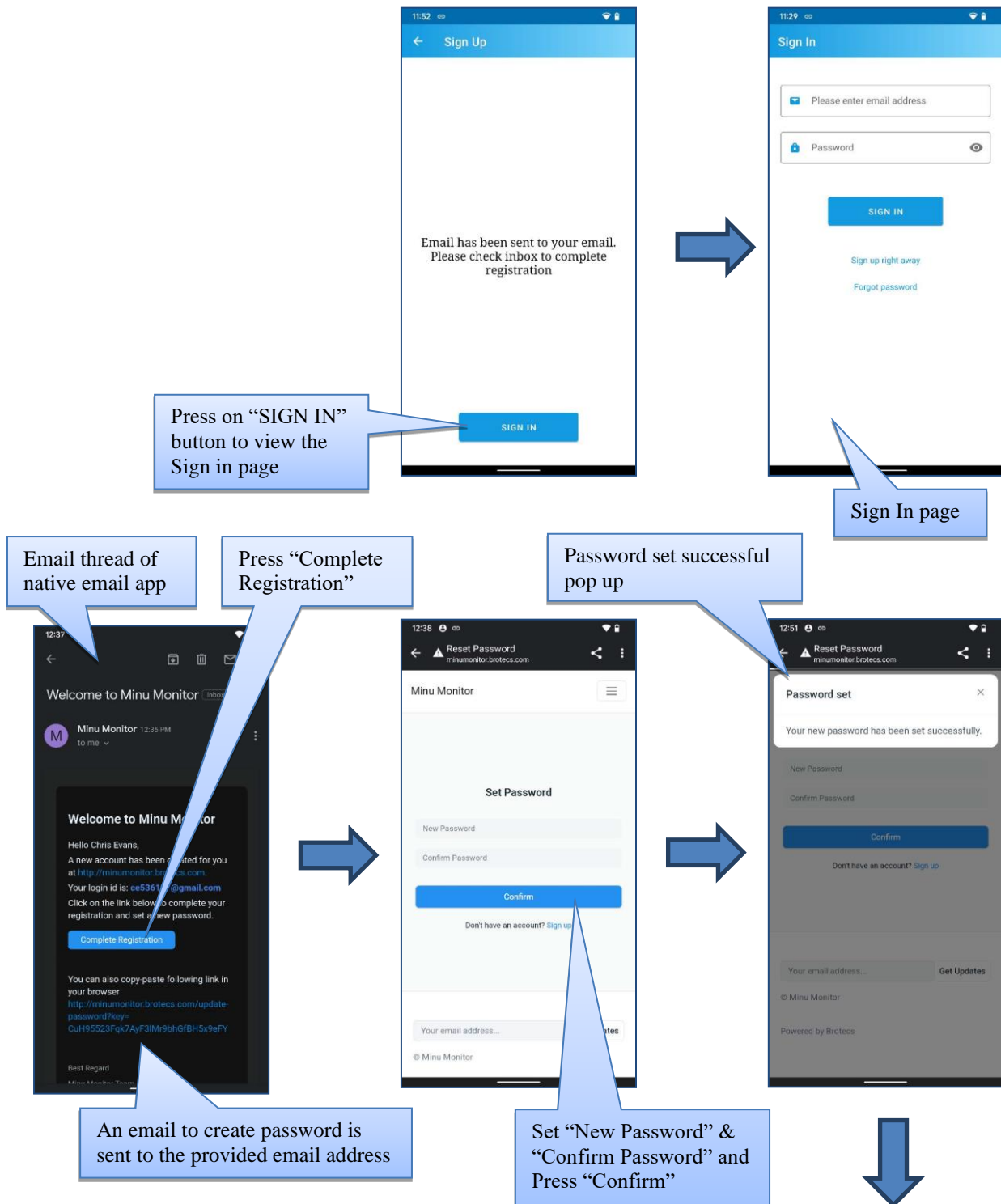
2 New Account Sign Up

NOTE: If you already have an account, please skip the section and continue from [Sign In From App](#) section.



NOTE: Please check the agreement checkbox to continue using the app. Otherwise app will not let user perform further use of the app.

After pressing on “NEXT” button, an email will be sent the provided email address of Sign UP page. From user email, continue complete the registration.



Auto signs in into Minu Monitor Web Page after completing User Registration

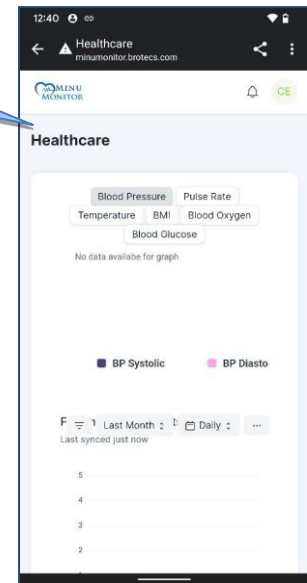


Figure 2-1: New Account Sign Up Process

3 Sign In to App

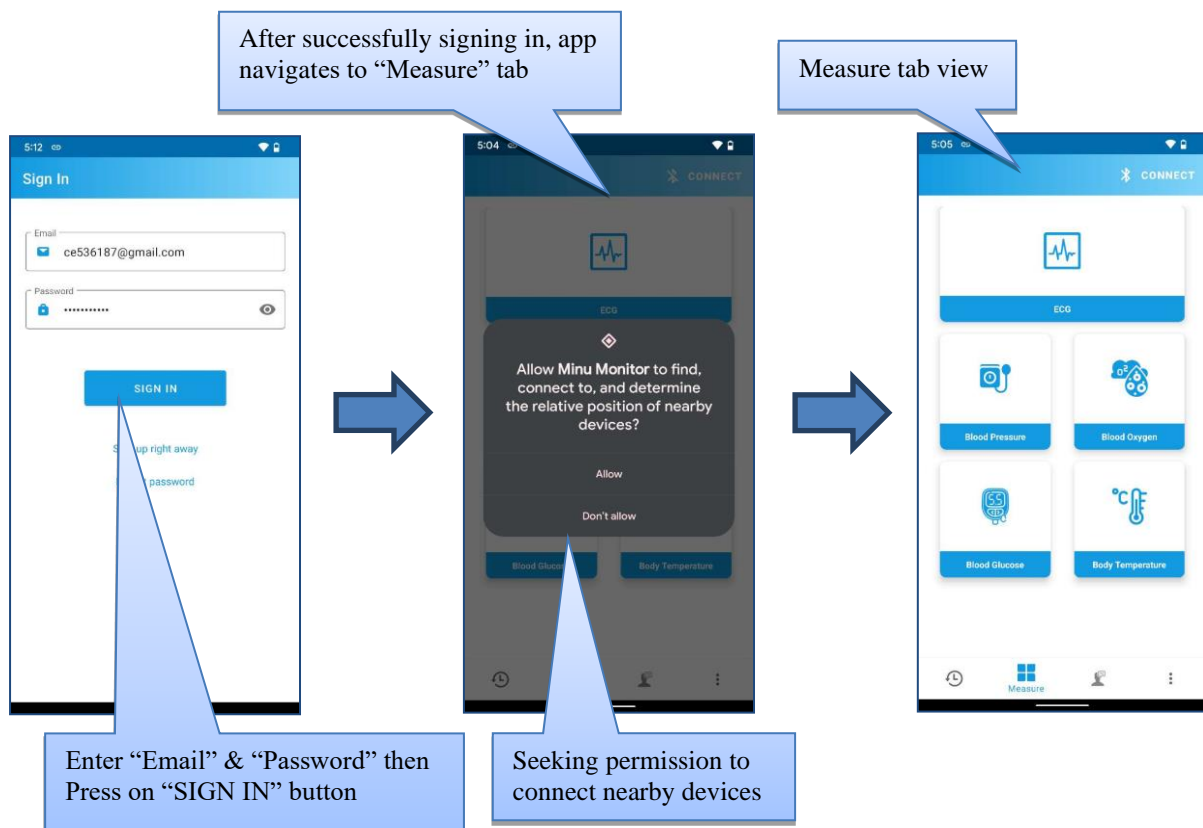


Figure 3-1: Sign In Process from App

NOTE: A user can sign in to Minu Monitor web page with the same credentials as well. To view the web page please review the [How to Login Minu Monitor web as a Patient](#) section of [Appendix A](#).

4 Connect And Disconnect

To measure and view any Chronic condition, User needs to connect Vital Signs Monitor device with Minu Monitor app.

4.1 How to Connect Vital Signs Monitor Device to App



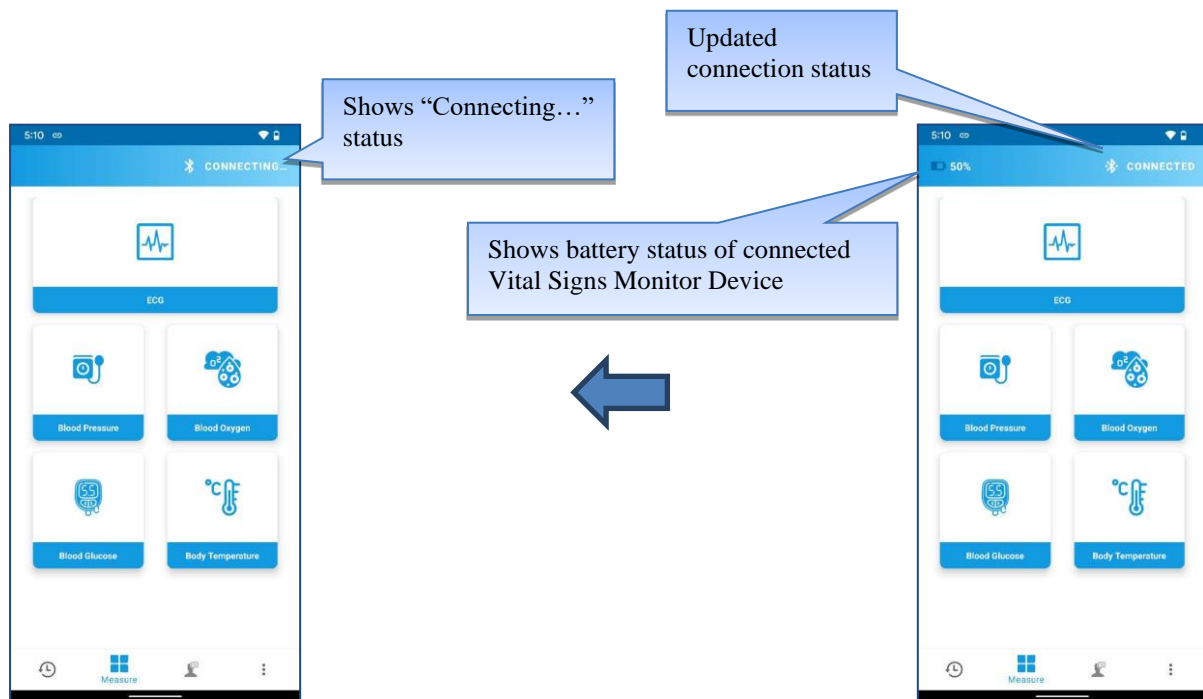


Figure 4-1: Connect Vital Signs Monitor Device with App

NOTE: Location permission is mandatory for showing the nearby device list. If allowed for the first time during Connecting a device, it will not be shown again.

4.2 How to Disconnect Vital Signs Monitor Device From App

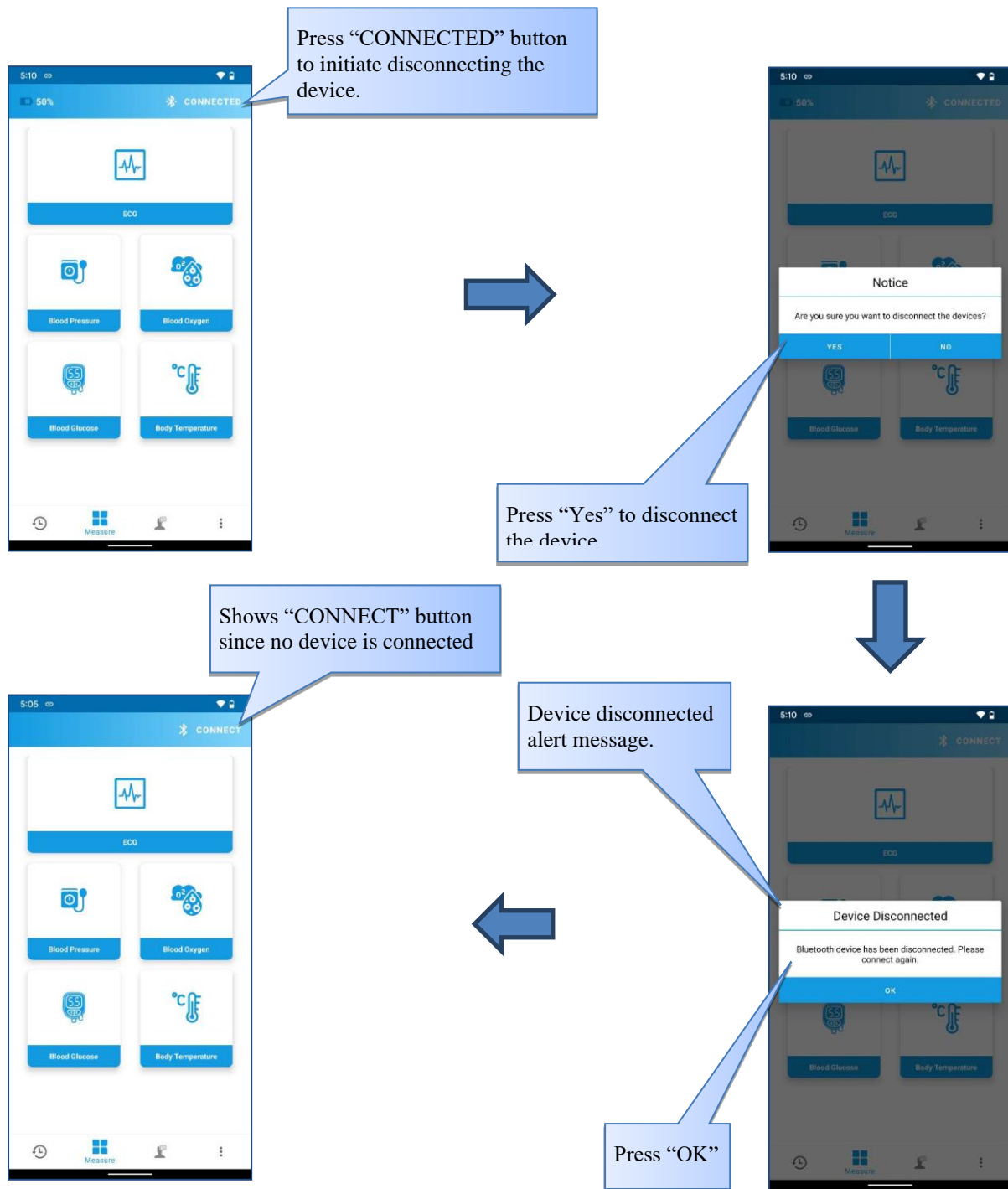


Figure 4-2: Disconnect Vital Signs Monitor Device From App

5 Measure

5.1 How to measure ECG

To use the Vital Signs Monitor device during the measurement, please follow the steps of the [Guidelines for ECG Measurements](#) at the same time and continue from the App.

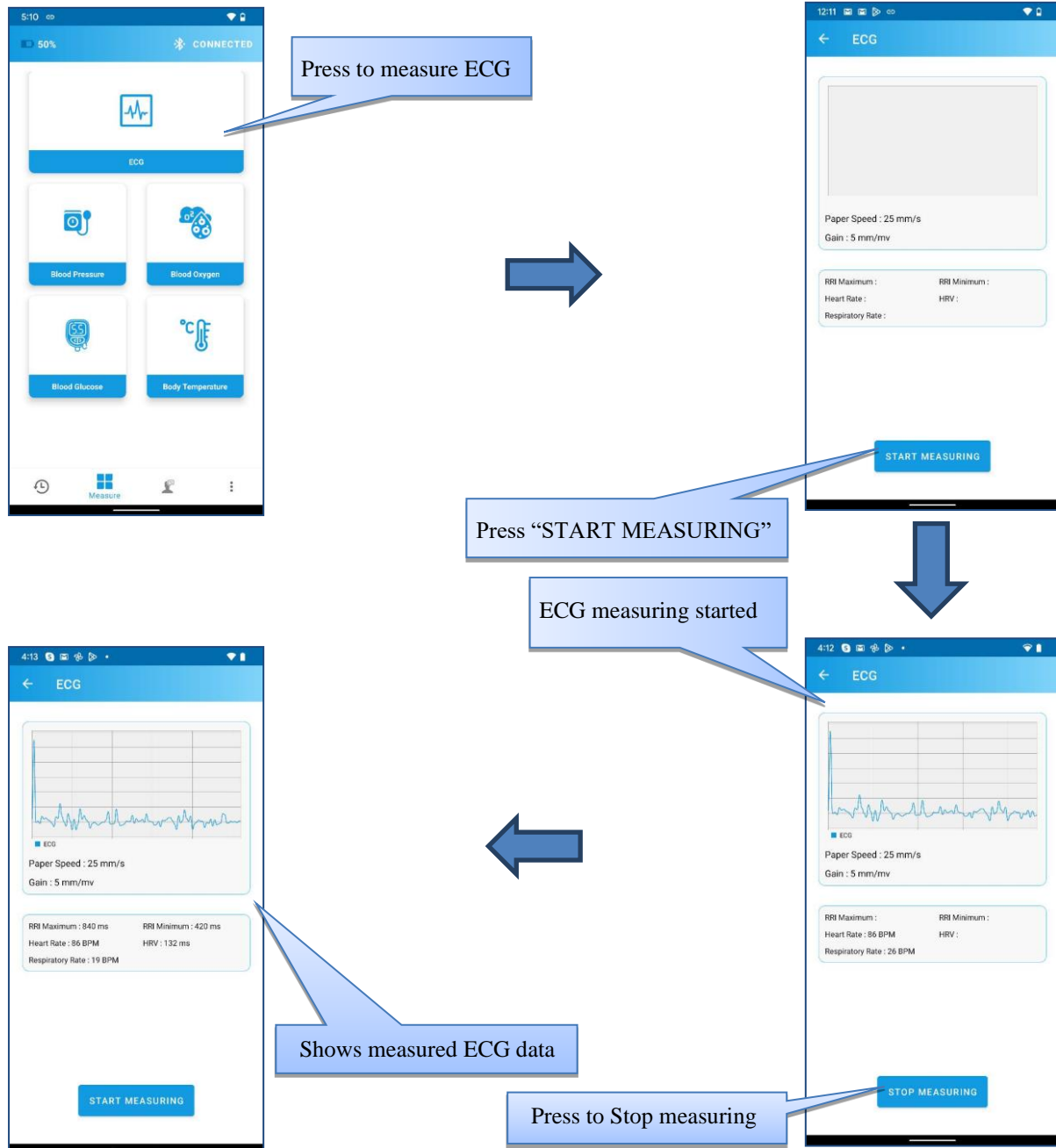


Figure 5-1: Measure ECG

NOTE: During ECG measurement, the Vital Signs Monitor device should not be disconnected from the App. Also please wait at least one minute before pressing "STOP MEASURING" to get all data properly.

5.2 How to measure Blood Pressure

To use the Vital Signs Monitor device during the measurement, please follow the steps of the [Guidelines for Blood Pressure Measurements](#) at the same time and continue from the App.



Figure 5-2: Measure Blood Pressure

NOTE: During Blood Pressure measurement, the Vital Signs Monitor device should not be disconnected from the App.

5.3 How to measure Blood Oxygen

To use the Vital Signs Monitor device during the measurement, please follow the steps of the [Guidelines for Blood Oxygen Measurements](#) at the same time and continue from the App.



Figure 5-3: Measure Blood Oxygen

NOTE: During Blood Oxygen measurement, the Vital Signs Monitor device should not be disconnected from the App. Also please wait for few seconds to complete the measurement.

5.4 How to measure Blood Glucose

To use the Vital Signs Monitor device during the measurement, please follow the steps of the [Guidelines for Blood Glucose Measurements](#) at the same time and continue from the App.

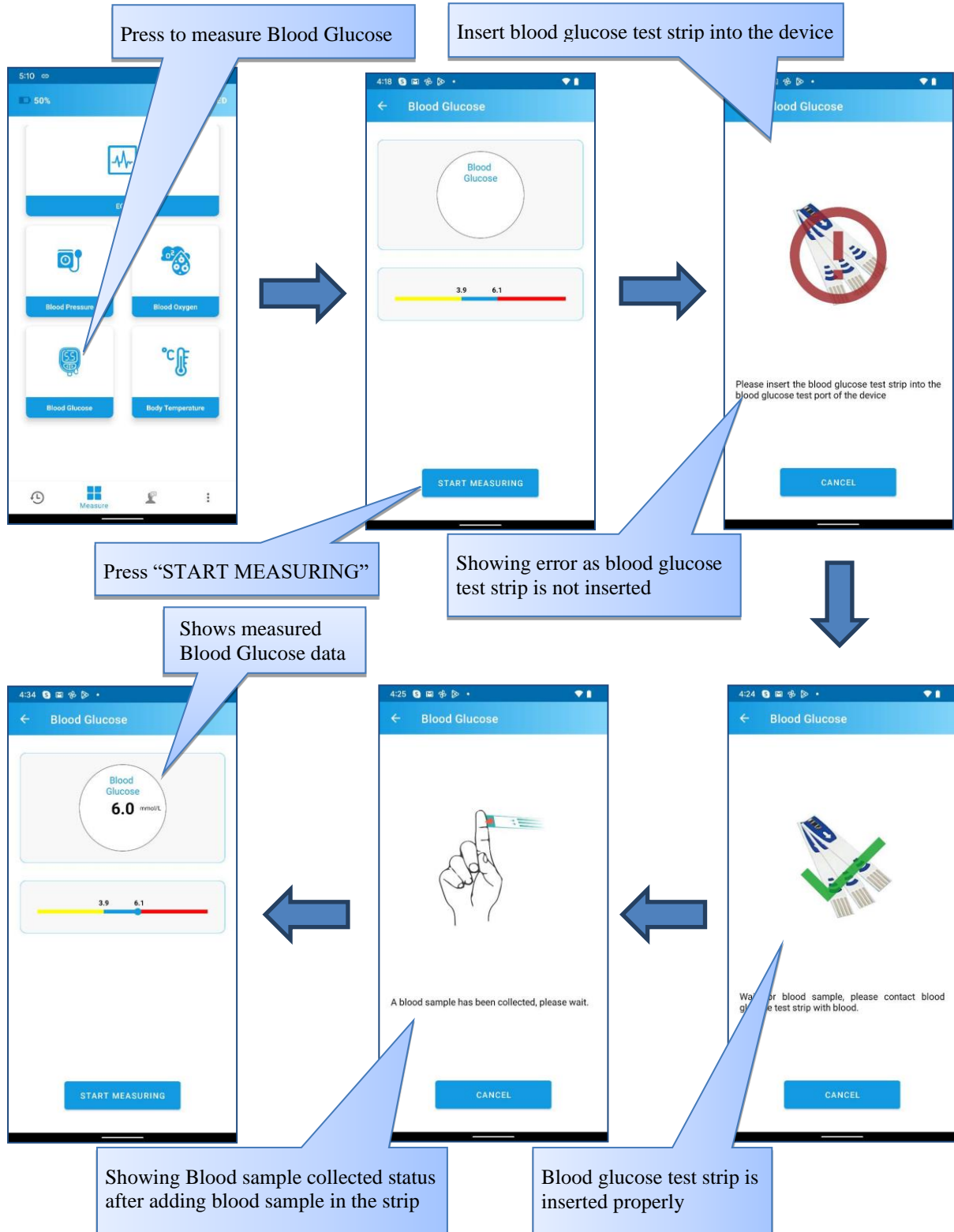


Figure 5-4: Measure Blood Glucose

NOTE: During Blood Glucose measurement, the Vital Signs Monitor device should not be disconnected from the App. Also please wait for few seconds after putting blood sample on the test strip to calculate the Blood Glucose data.

5.5 How to measure Body Temperature

To use the Vital Signs Monitor device during the measurement, please follow the steps of the [Guidelines for Body Temperature Measurements](#) at the same time and continue from the App.

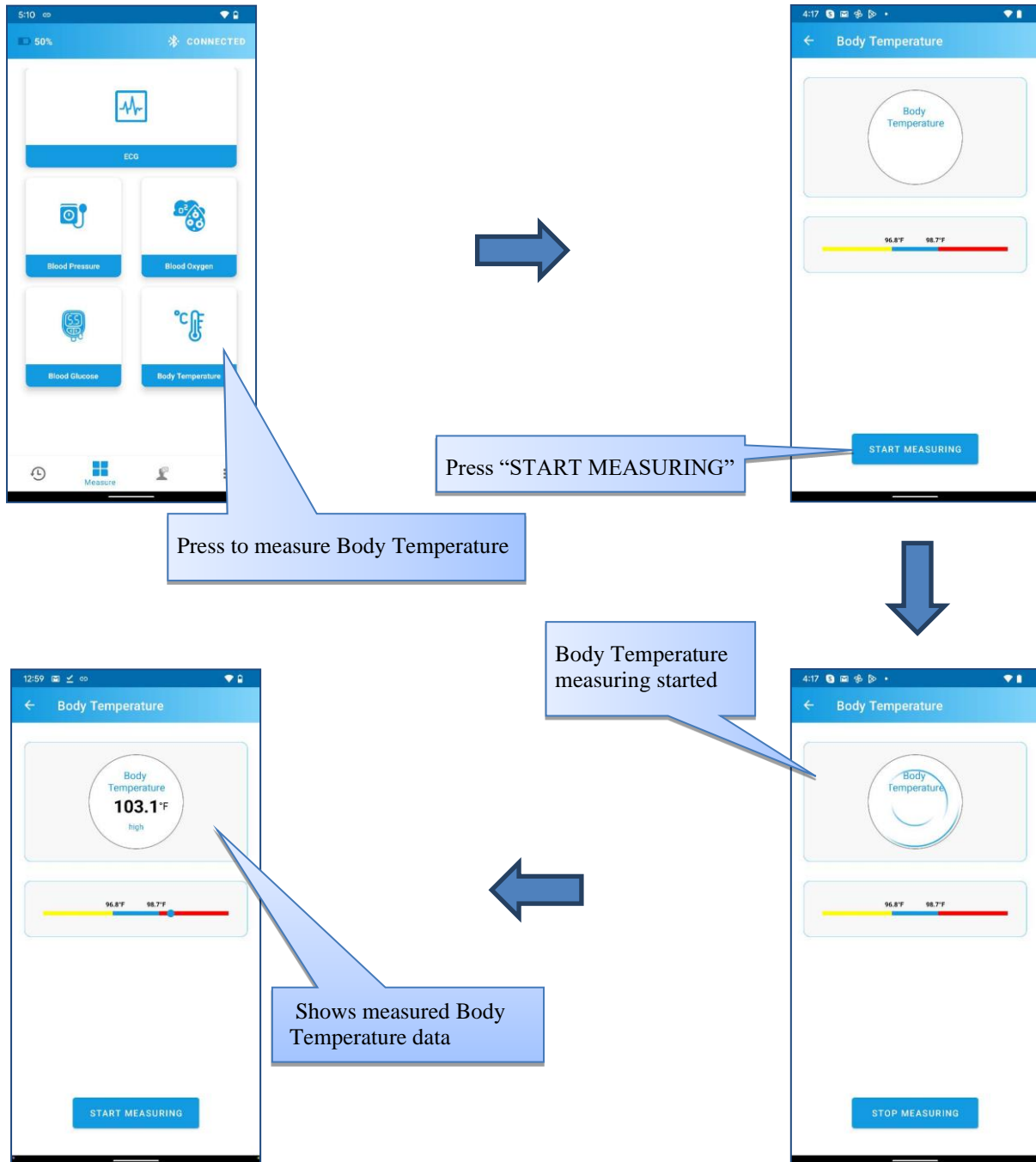


Figure 5-5: Measure Body Temperature

NOTE: During Body Temperature measurement, the Vital Signs Monitor device should not be disconnected from the App.

6 Record

The “Record” section shows all the records of vital sign measurements. The section gets auto synced with server. However, a user can manually sync data from server whenever desired.

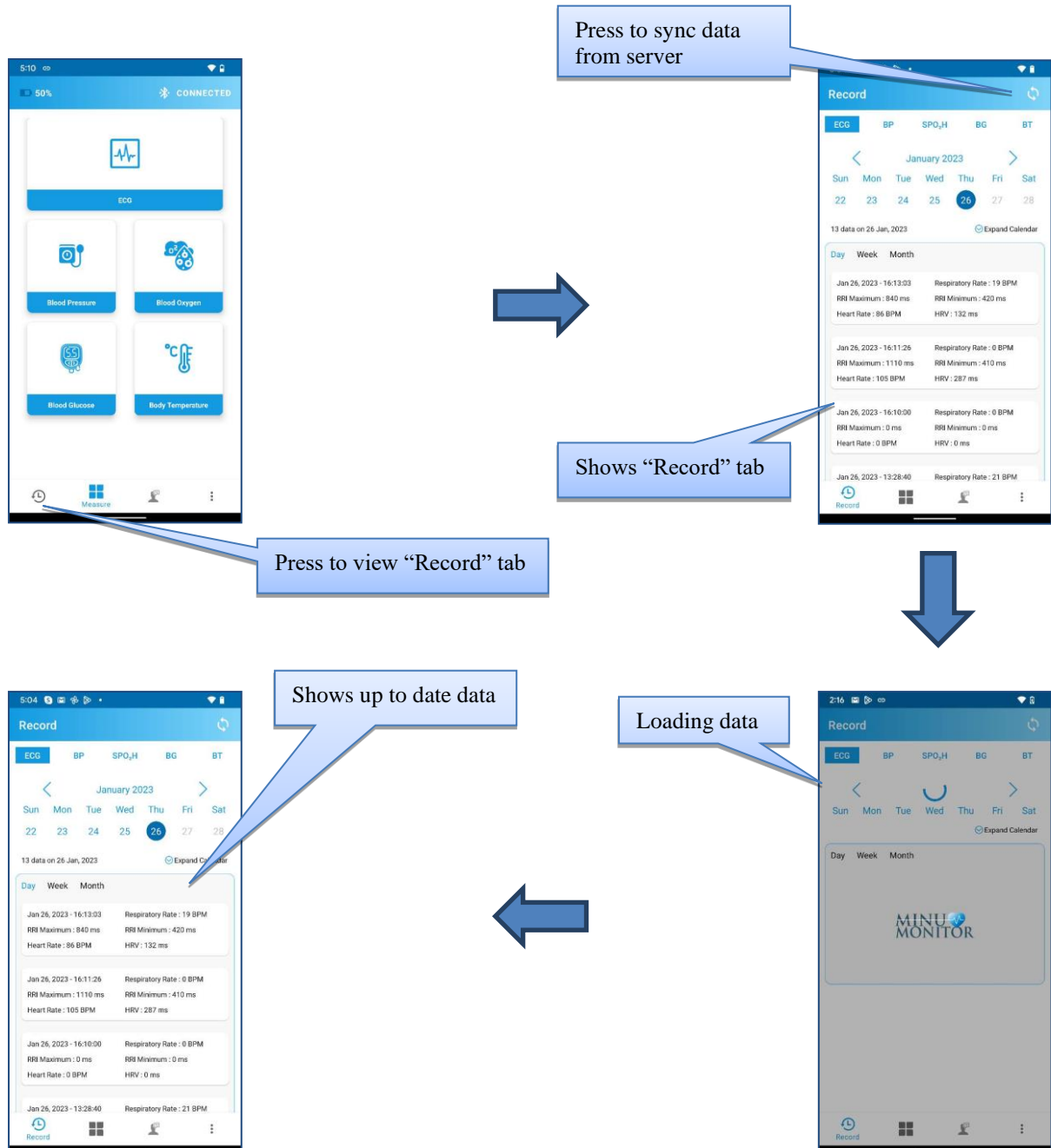


Figure 6-1: Record tab

NOTE: Vital records can be seen as daily, weekly or monthly patterns. To view, please press on the “Day”, “Week”, “Month” options.

NOTE: A user can view the Vital Sign records from Minu Monitor web page as well. Please review the section [Vital records in Healthcare](#) of [Appendix A](#) to learn more.

6.1 ECG Record

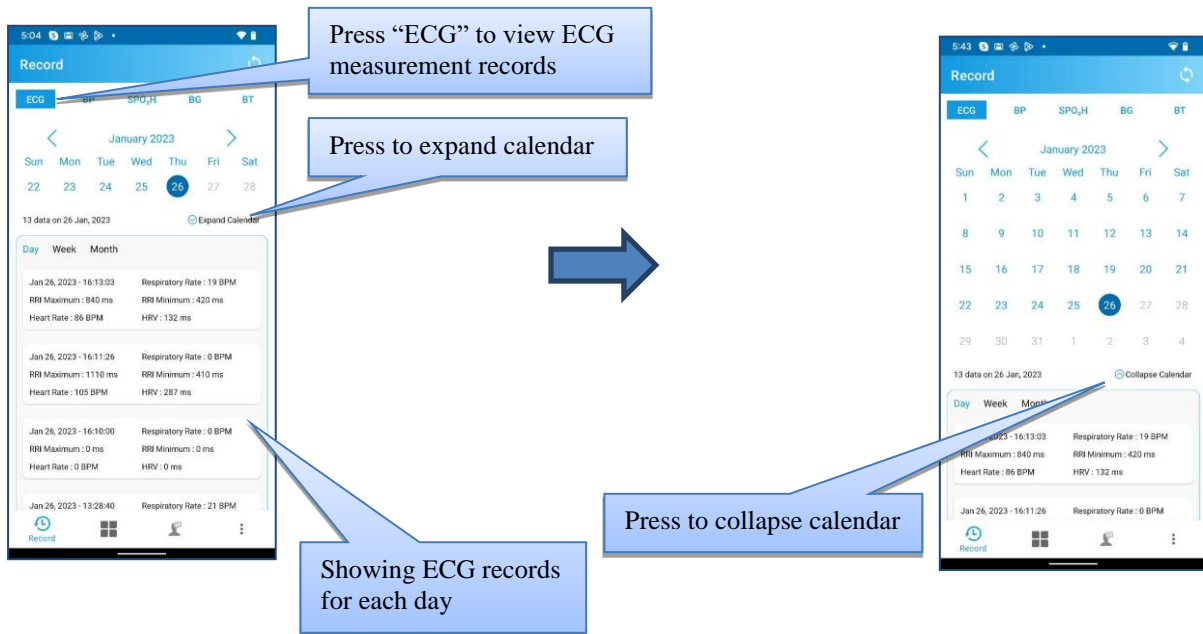


Figure 6-2: ECG record

6.2 Blood Pressure Record

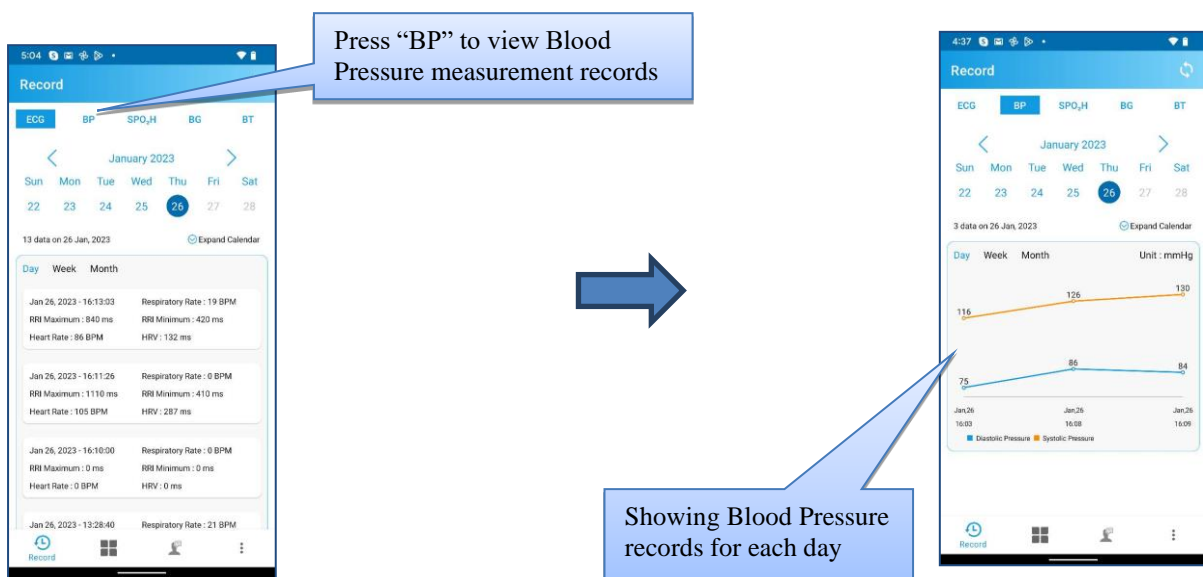


Figure 6-3: Blood Pressure record

6.3 Blood Oxygen Record

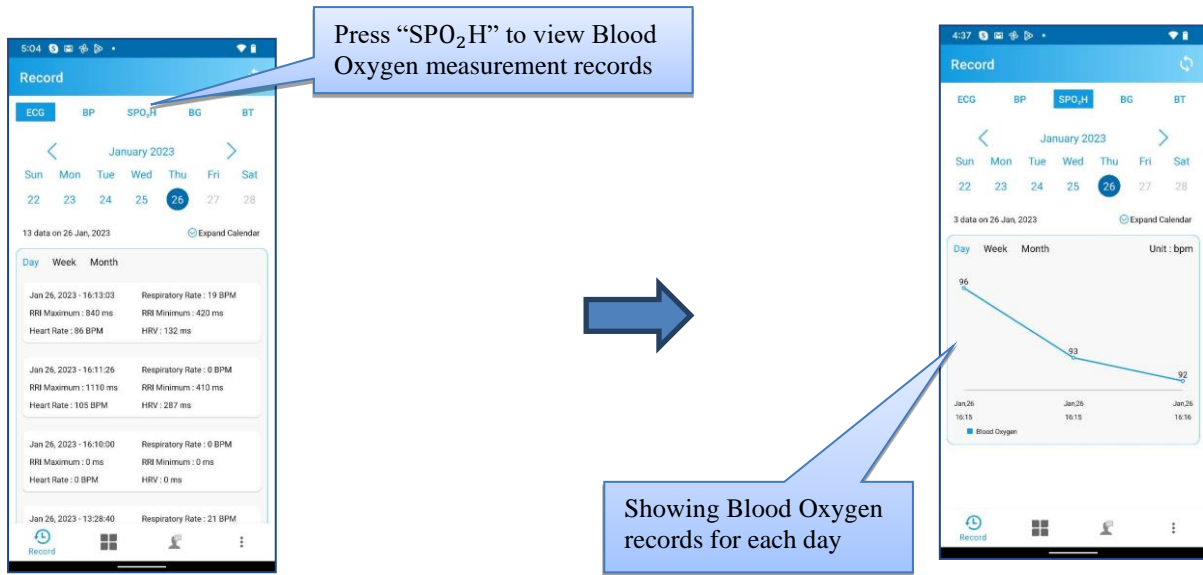


Figure 6-4: Blood Oxygen record

6.4 Blood Glucose Record

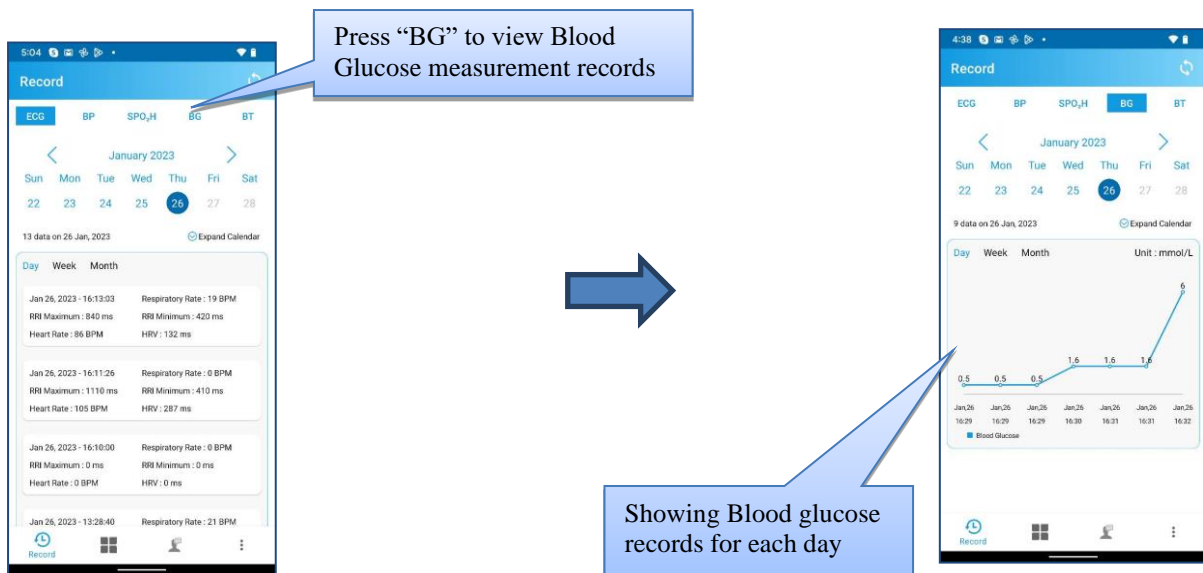


Figure 6-5: Blood Glucose record

6.5 Body Temperature Record

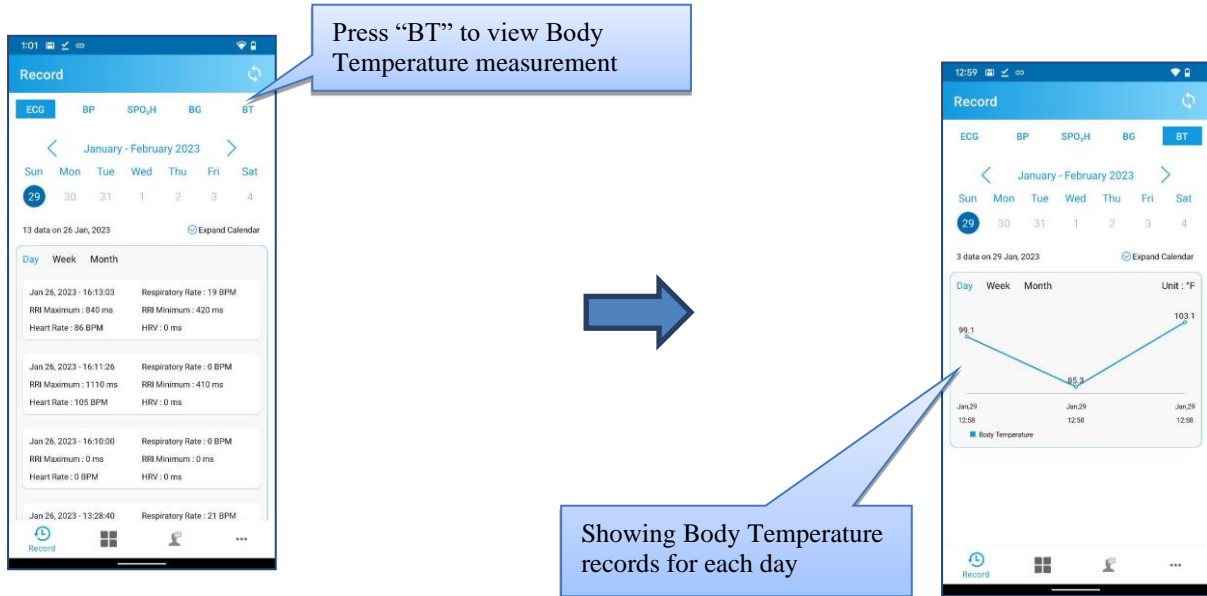


Figure 6-6: Body Temperature record

7 Appointment

From Appointment tab, a user can add and view appointments.

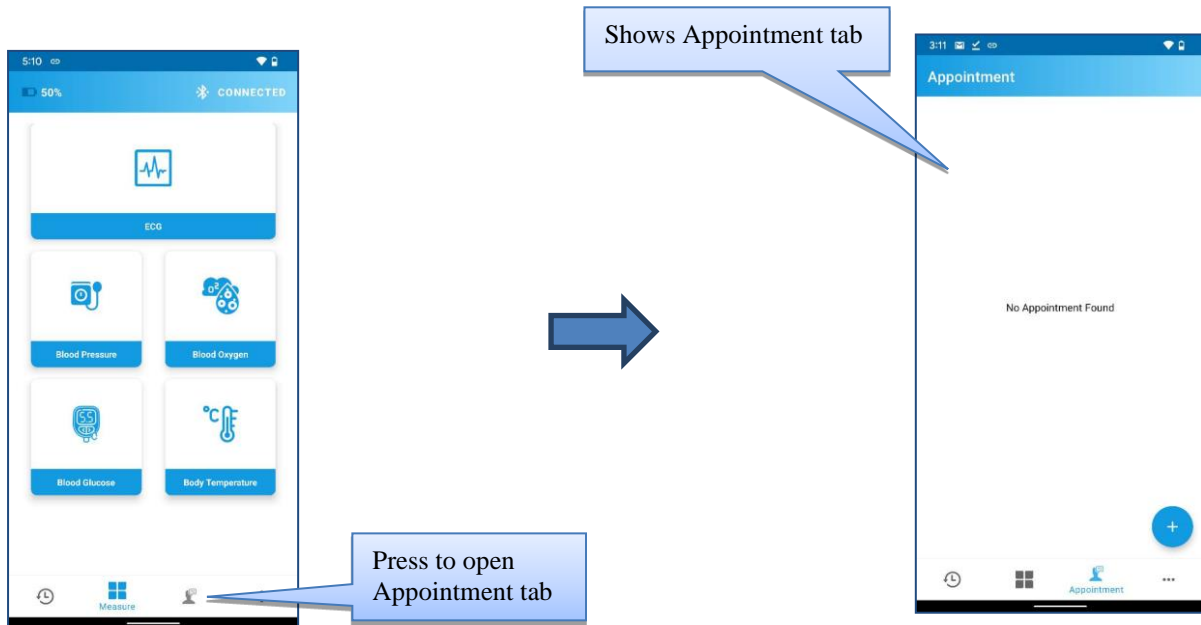
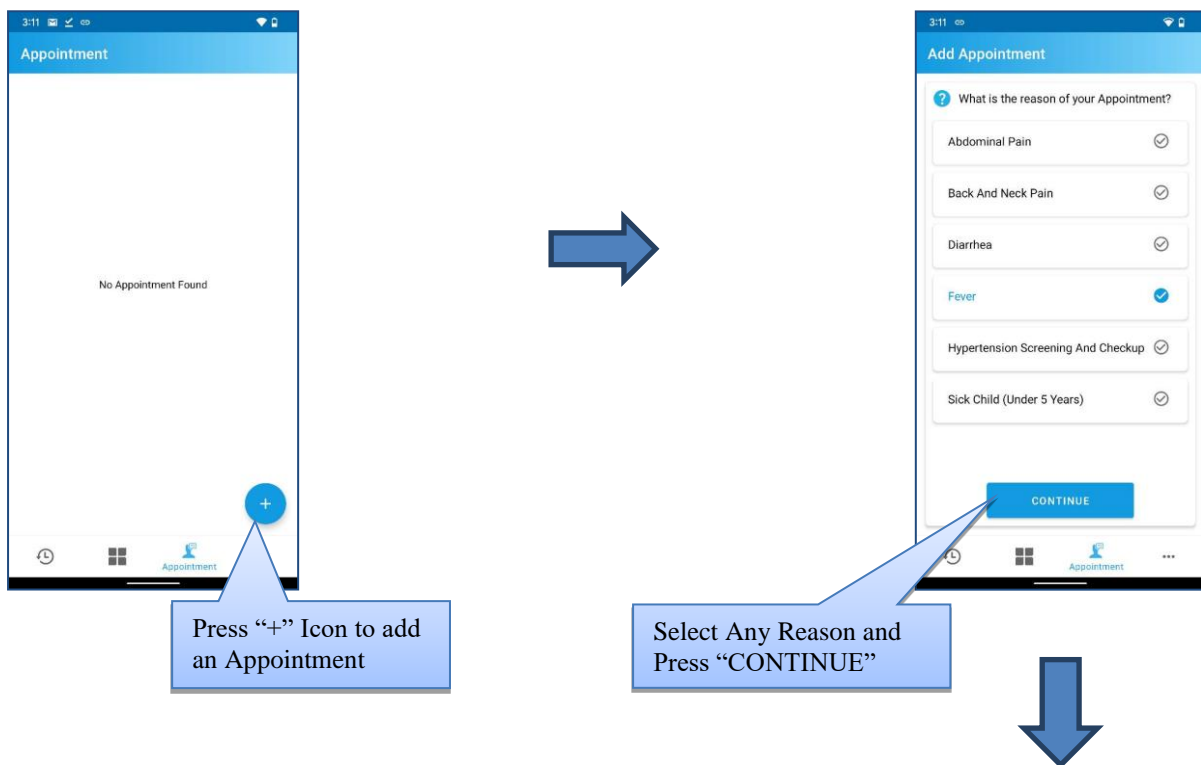
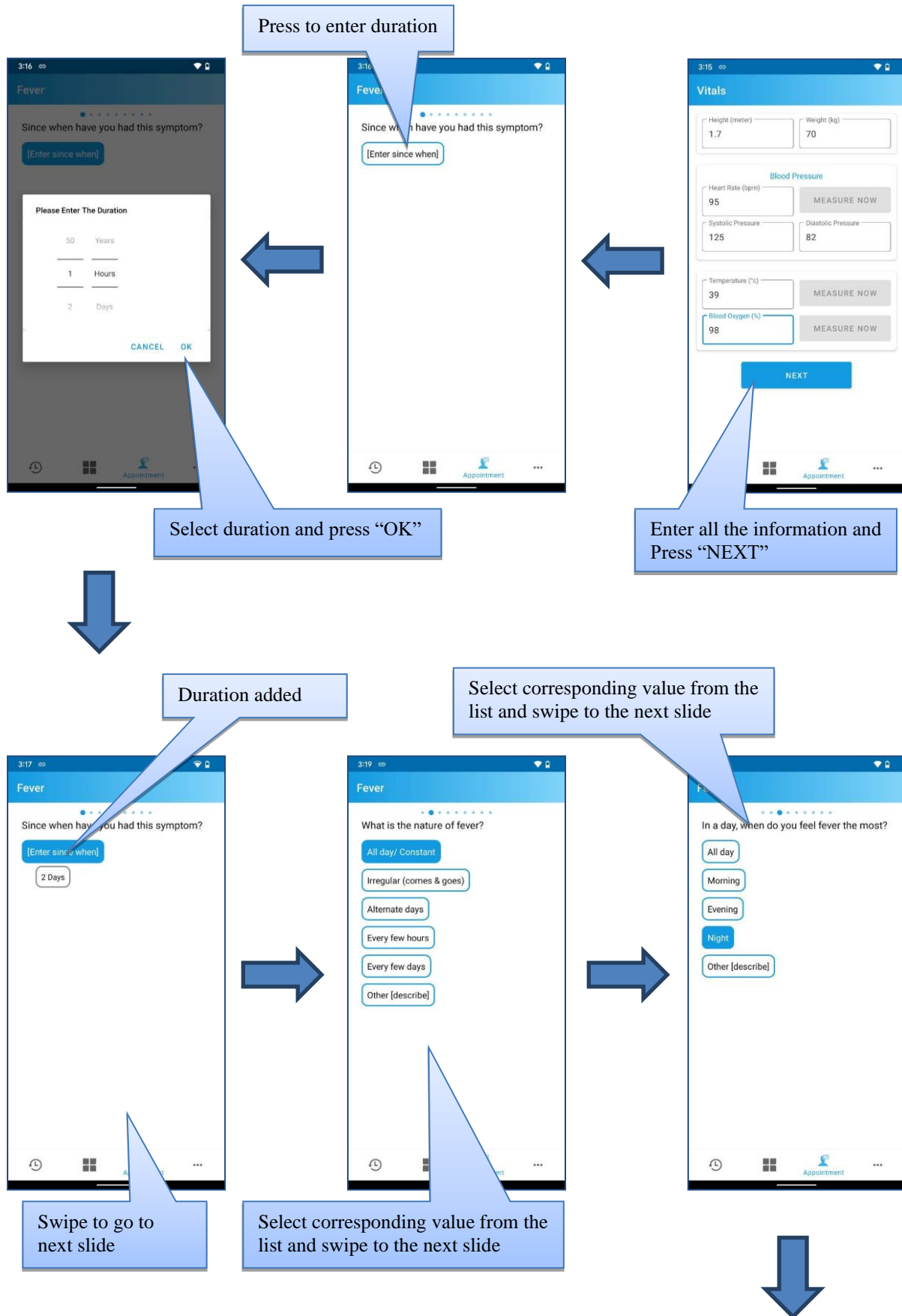


Figure 7-1: Appointment tab

7.1 Add a new Appointment





NOTE: Multiple values can be selected in few slides.

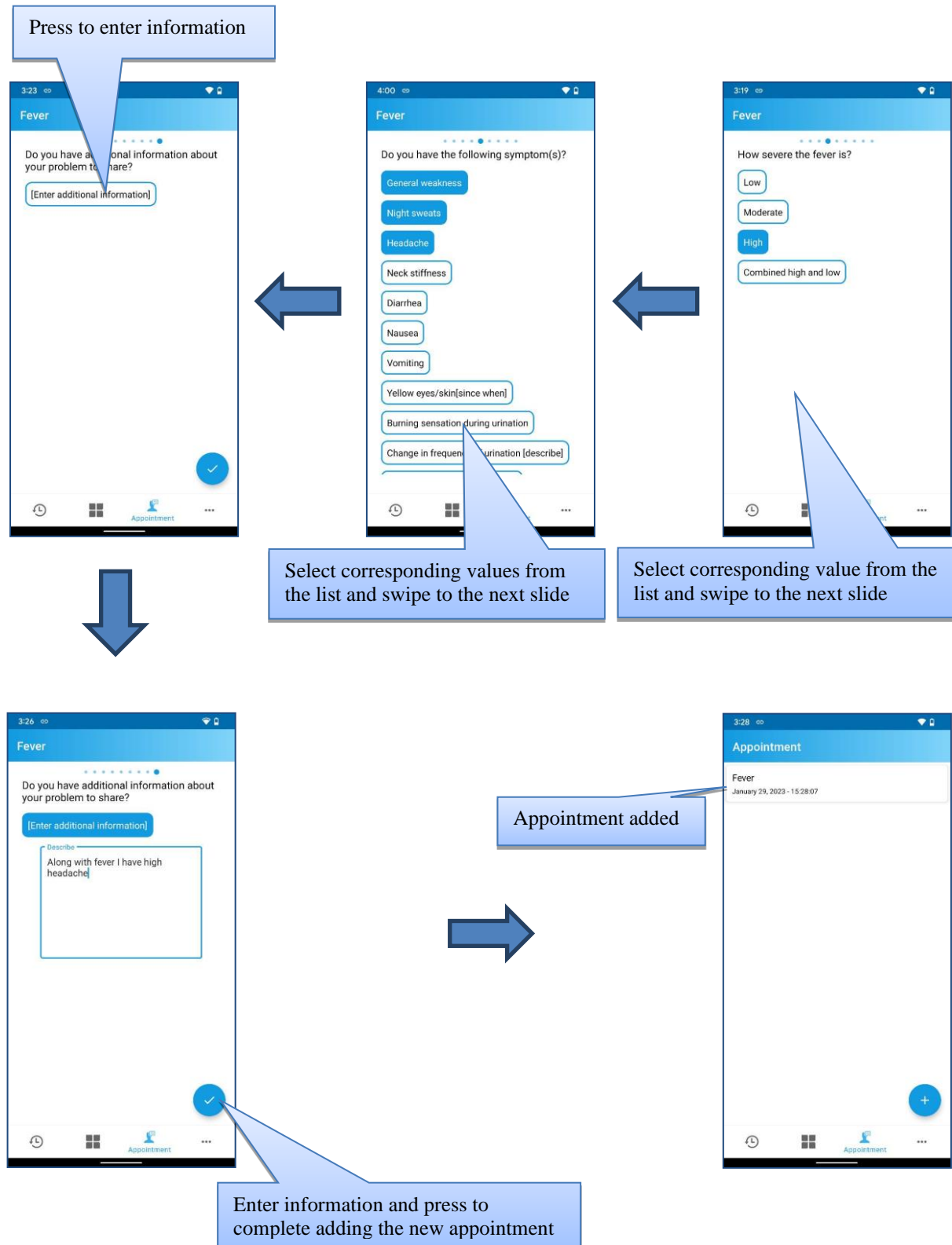


Figure 7-2: Adding an appointment

NOTE: *Slides may vary according to symptoms and user inputs. User should enter information or select values as prompted then press “NEXT” button or swipe to the next slides respectively to complete creating any appointment.*

NOTE: *The above values/data in screenshots are just an illustration on how the inputs can be given or values can be selected. In the same way, for other reasons (Abdominal Pain, Back And Neck Pain, Diarrhea, Hypertension Screening And Checkup and Sick Child (Under 5 Years)) an user can create new appointments.*

7.2 Appointment list

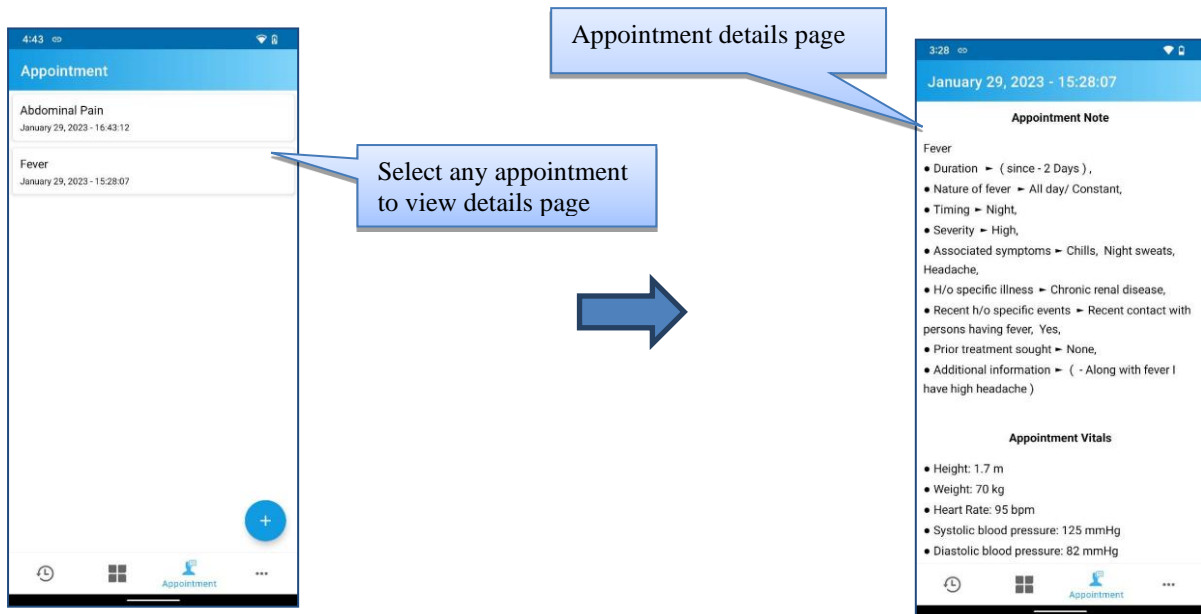


Figure 7-3: Appointment list

NOTE: A user can view the appointment list from Minu Monitor web page as well. Please review the section [Vital Signs in Healthcare](#) of [Appendix A](#) to learn more.

8 More

In **More** tab, a user can configure or view the following options:

- [Profile](#)
- [About](#)
- [Settings](#)
- [Change Password](#)
- [Sign Out](#)

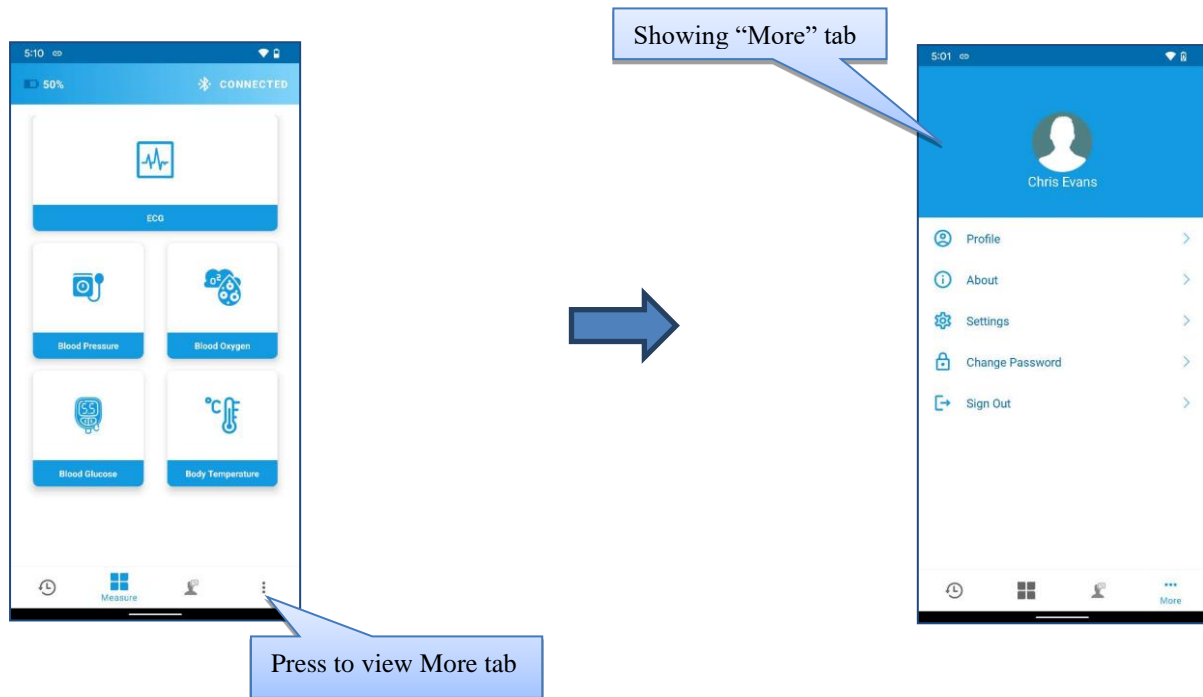


Figure 8-1: More tab

8.1 Profile

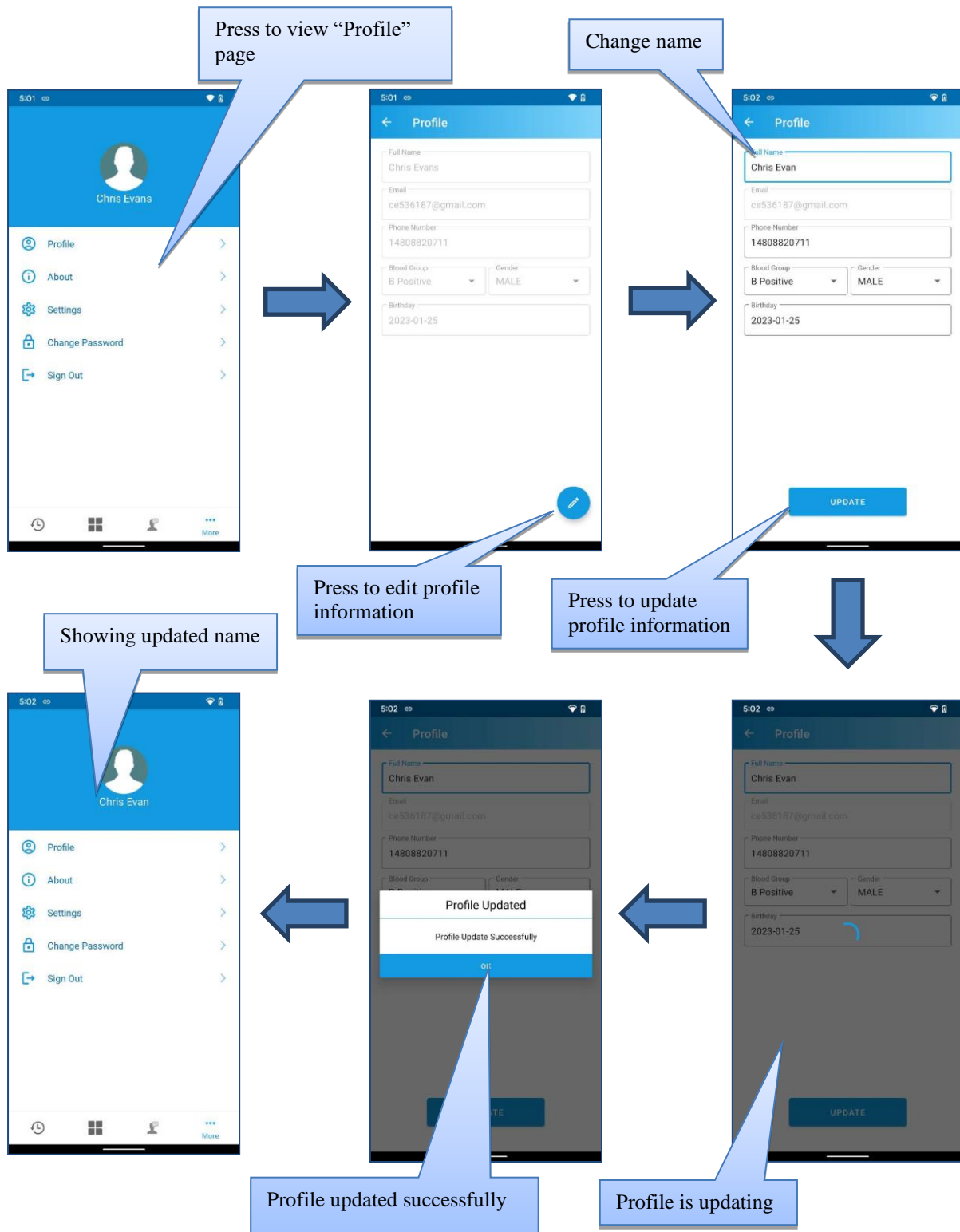


Figure 8-2: Profile Update Process

8.2 About

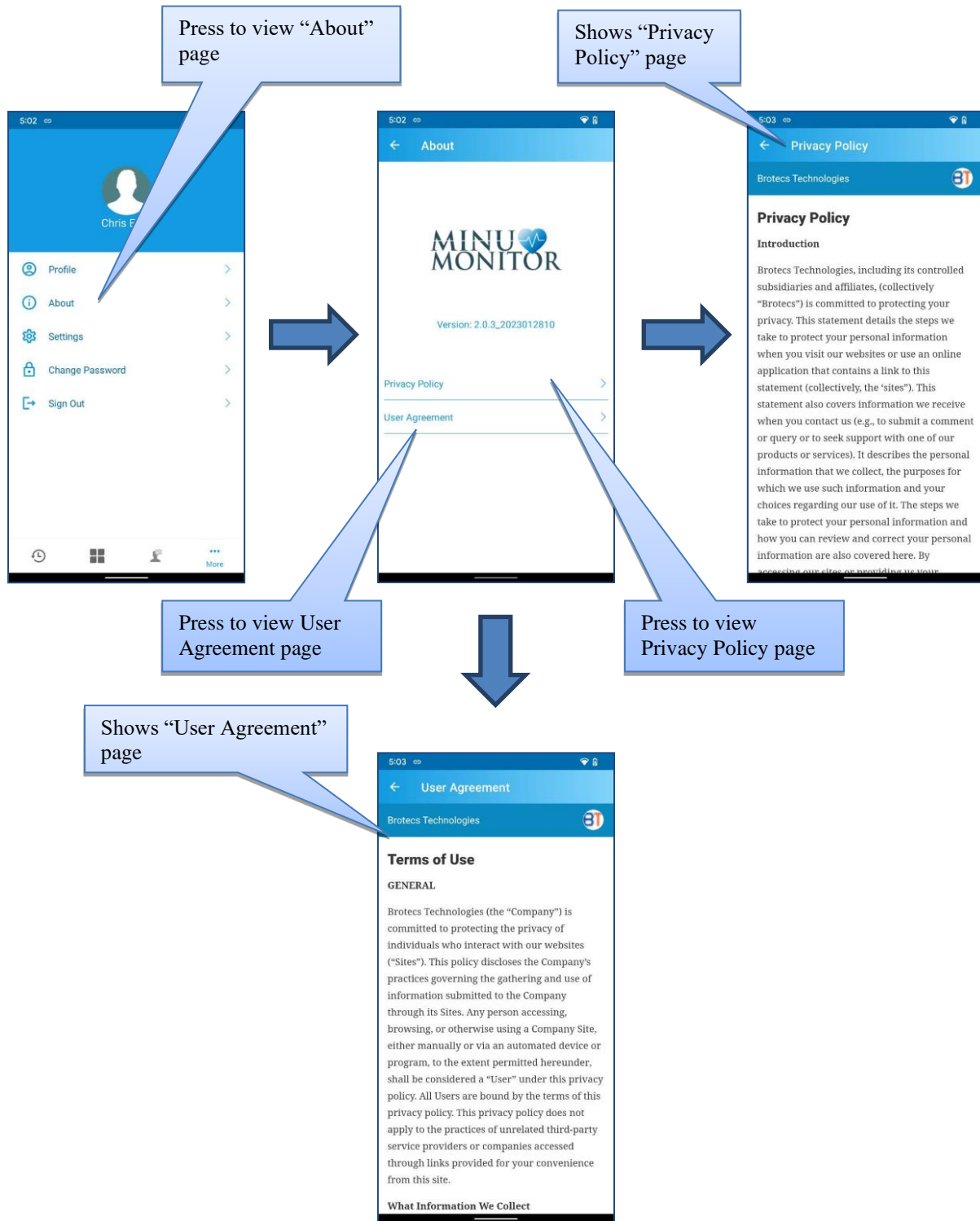


Figure 8-3: About page

8.3 Settings

In **Settings** page, a user can configure or view the following options:

- [Temperature](#)
- [Paper Speed](#)
- [Device](#)
- [Blood Glucose](#)
- [Gain](#)
- [Sync data from server](#)

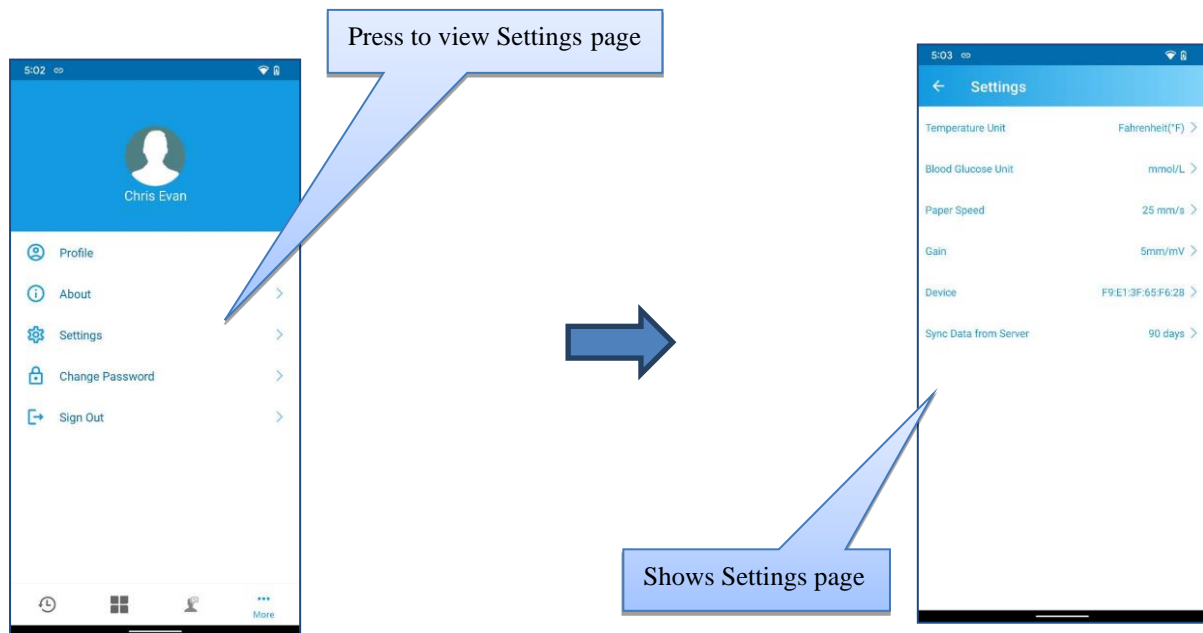


Figure 8-4: Settings page

8.3.1 How to change Temperature Unit

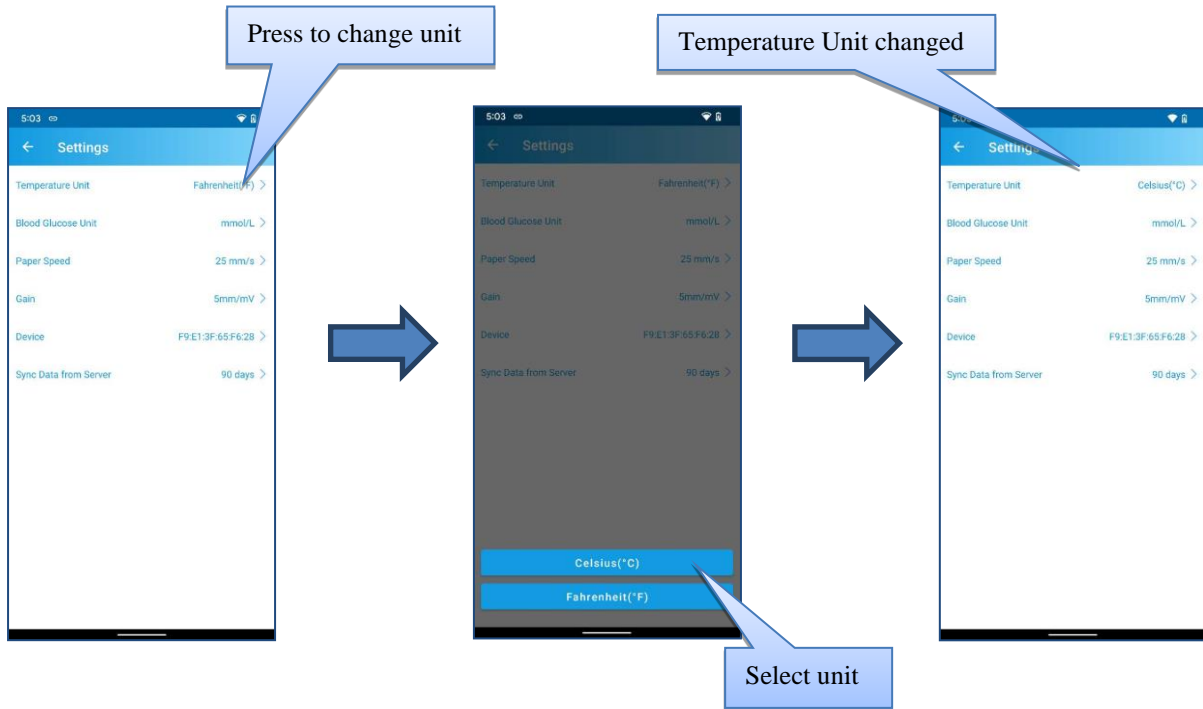


Figure 8-5: Change Temperature Unit

8.3.2 How to change Blood Glucose Unit

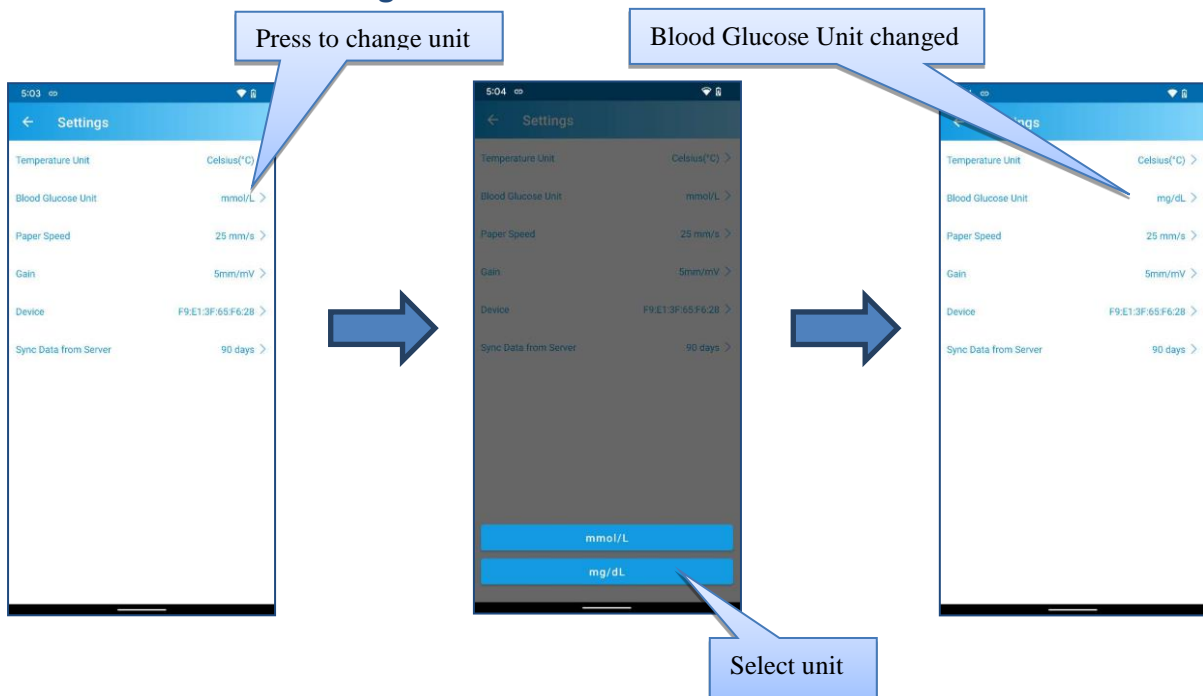


Figure 8-6: Change Blood Glucose Unit

8.3.3 How to change Paper Speed value

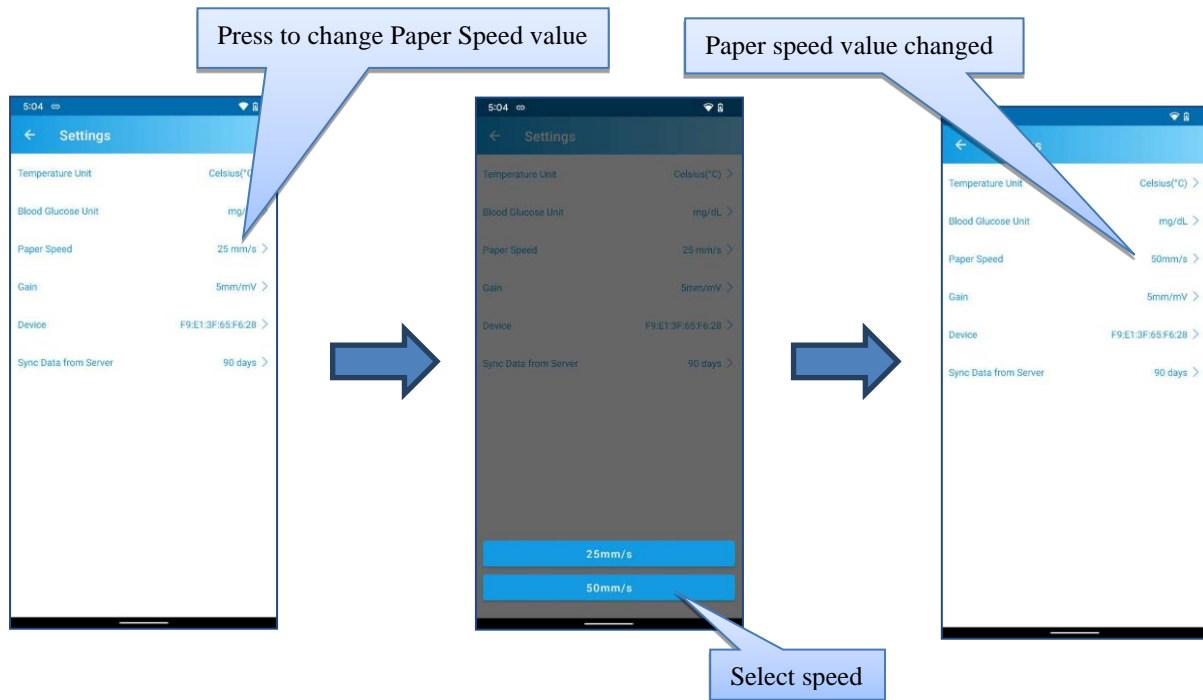


Figure 8-7: Change Paper Speed value

8.3.4 How to change Gain value

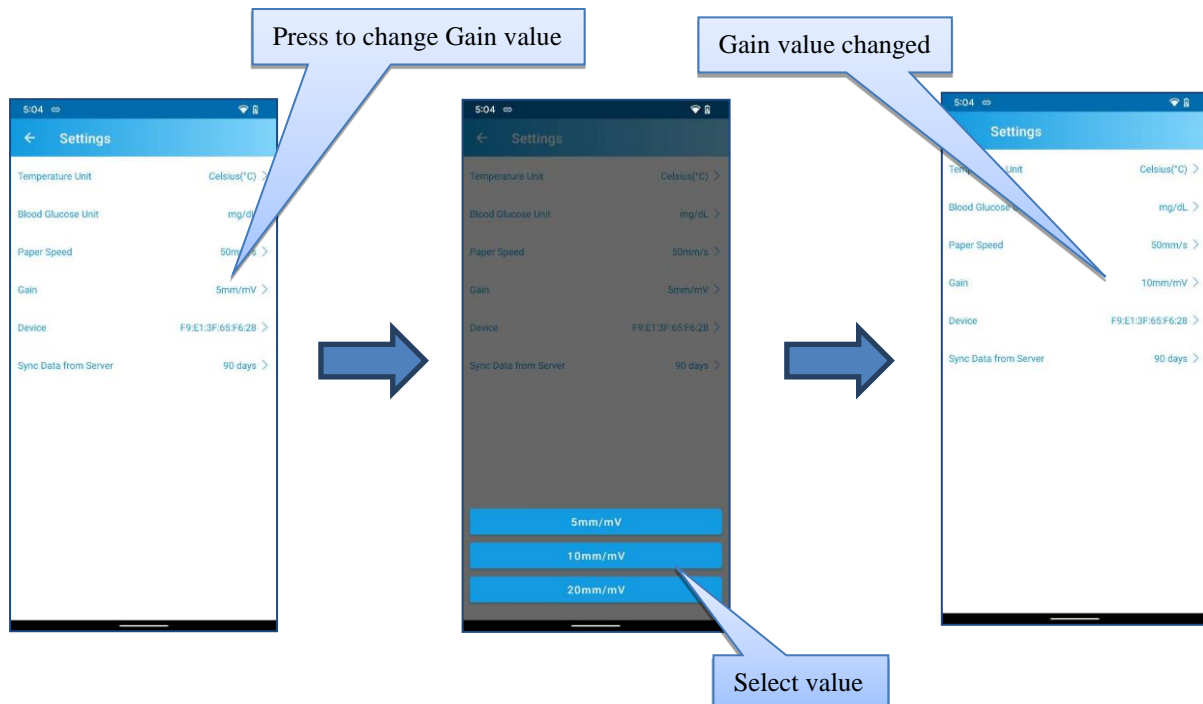


Figure 8-8: Change Gain value

8.3.5 How to unbind Vital Signs Monitor Device

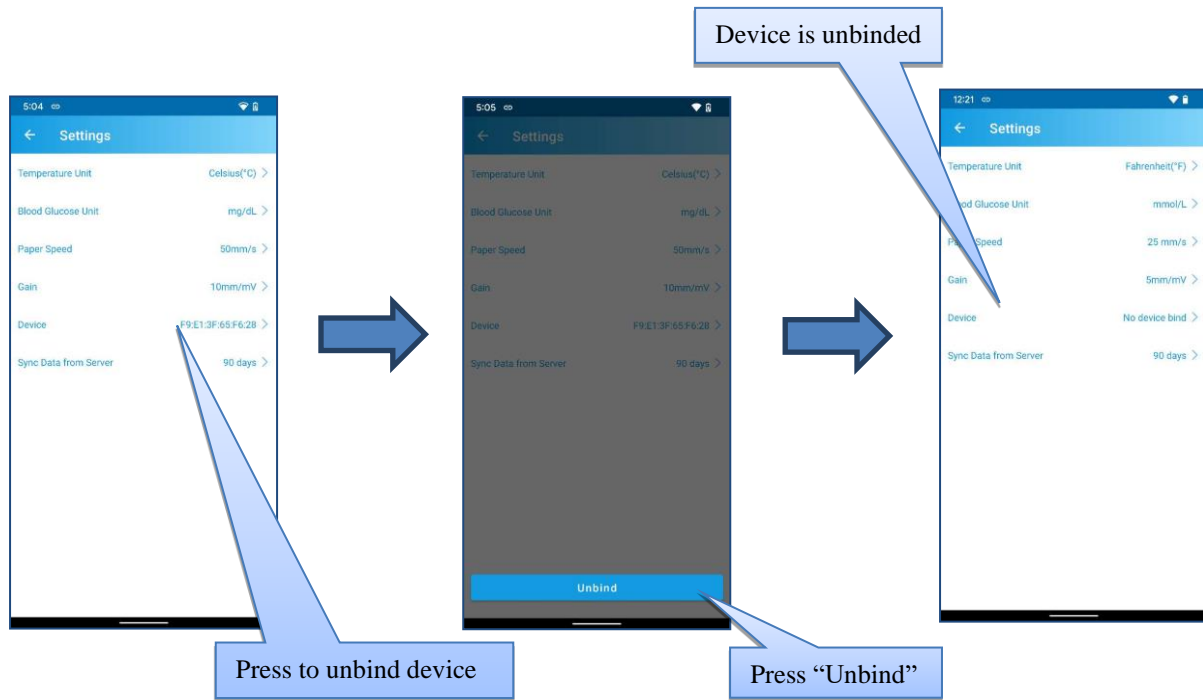


Figure 8-9: Unbind Vital Sign Monitor Device

8.3.1 How to change timeline to Sync Data from Server

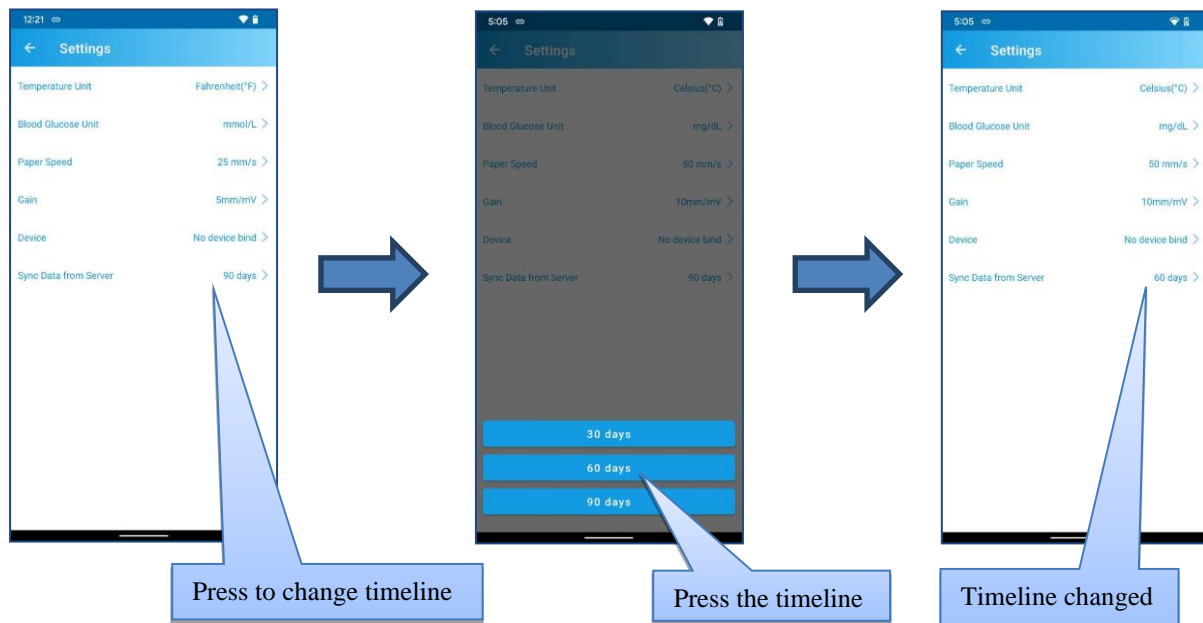


Figure 8-10: Change timeline to Sync Data from Server

8.4 Change Password

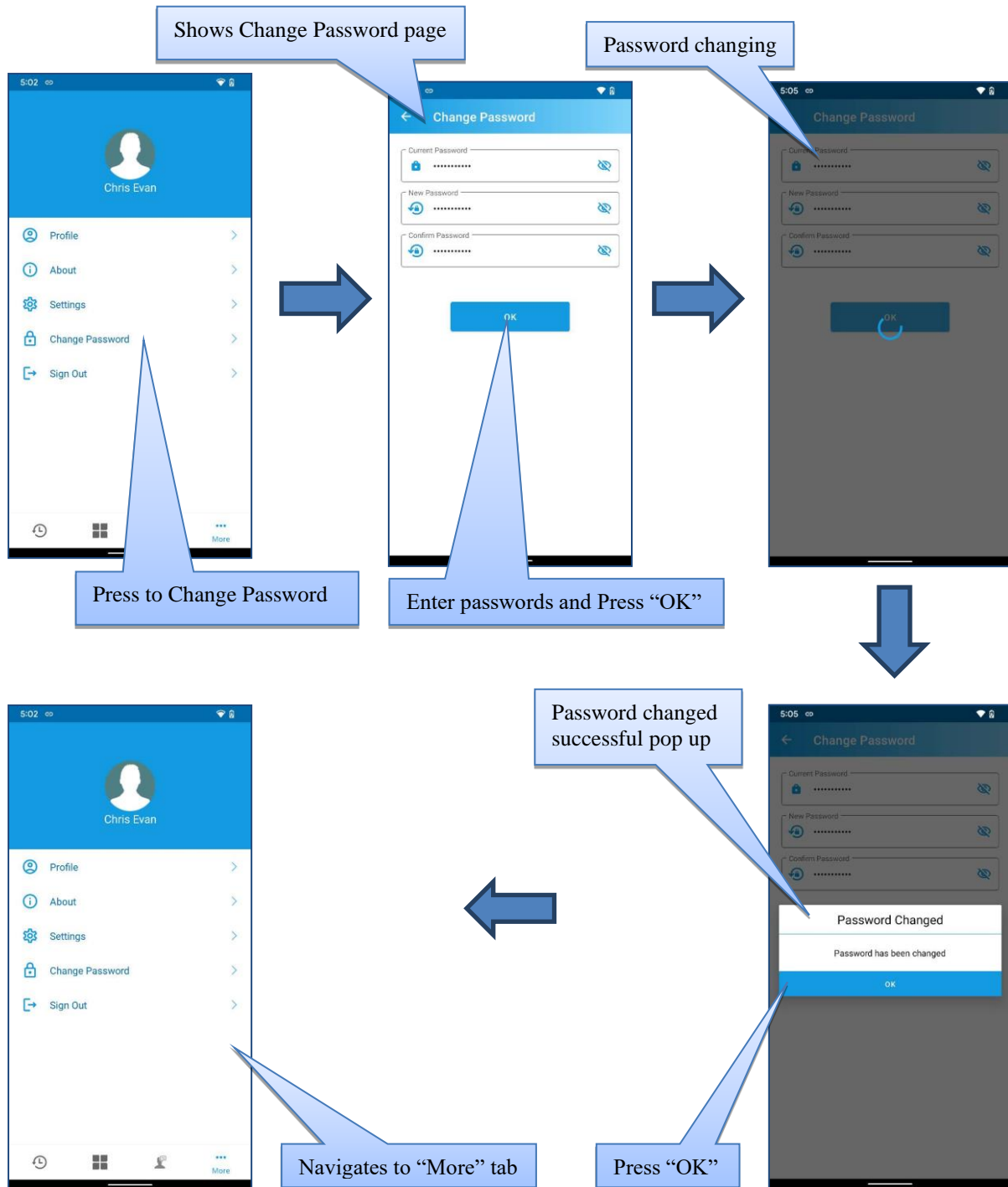


Figure 8-11: Change Password

8.5 Sign Out

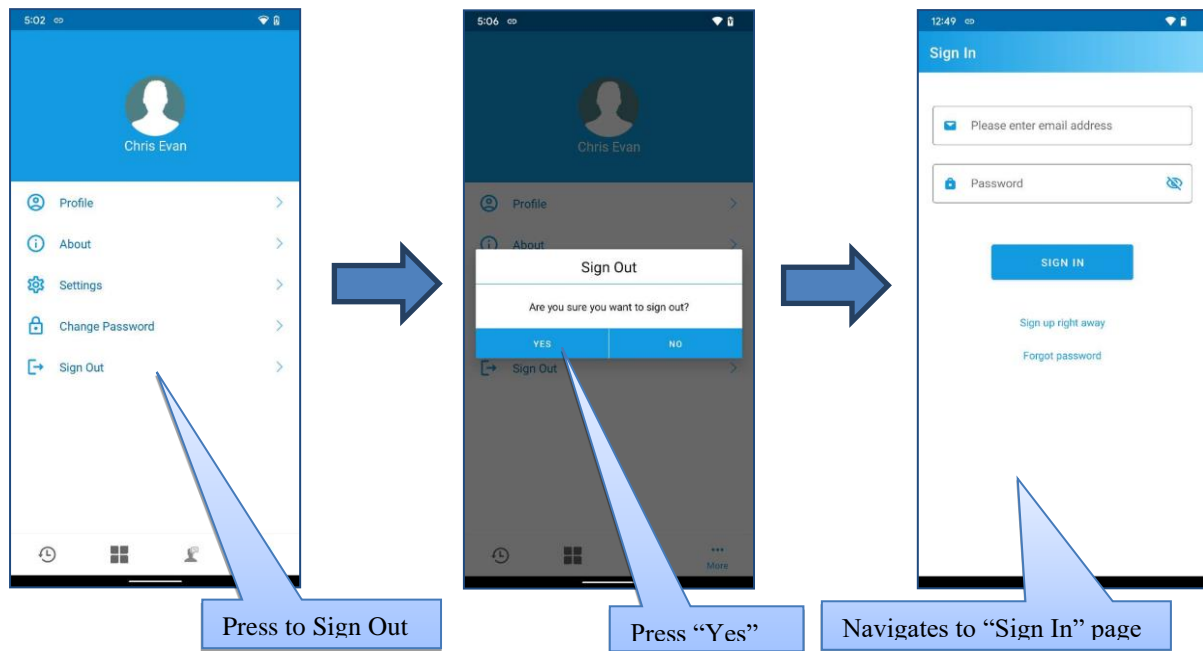


Figure 8-12: Sign Out

9 Reset Password

9.1 How to request Reset Password from App

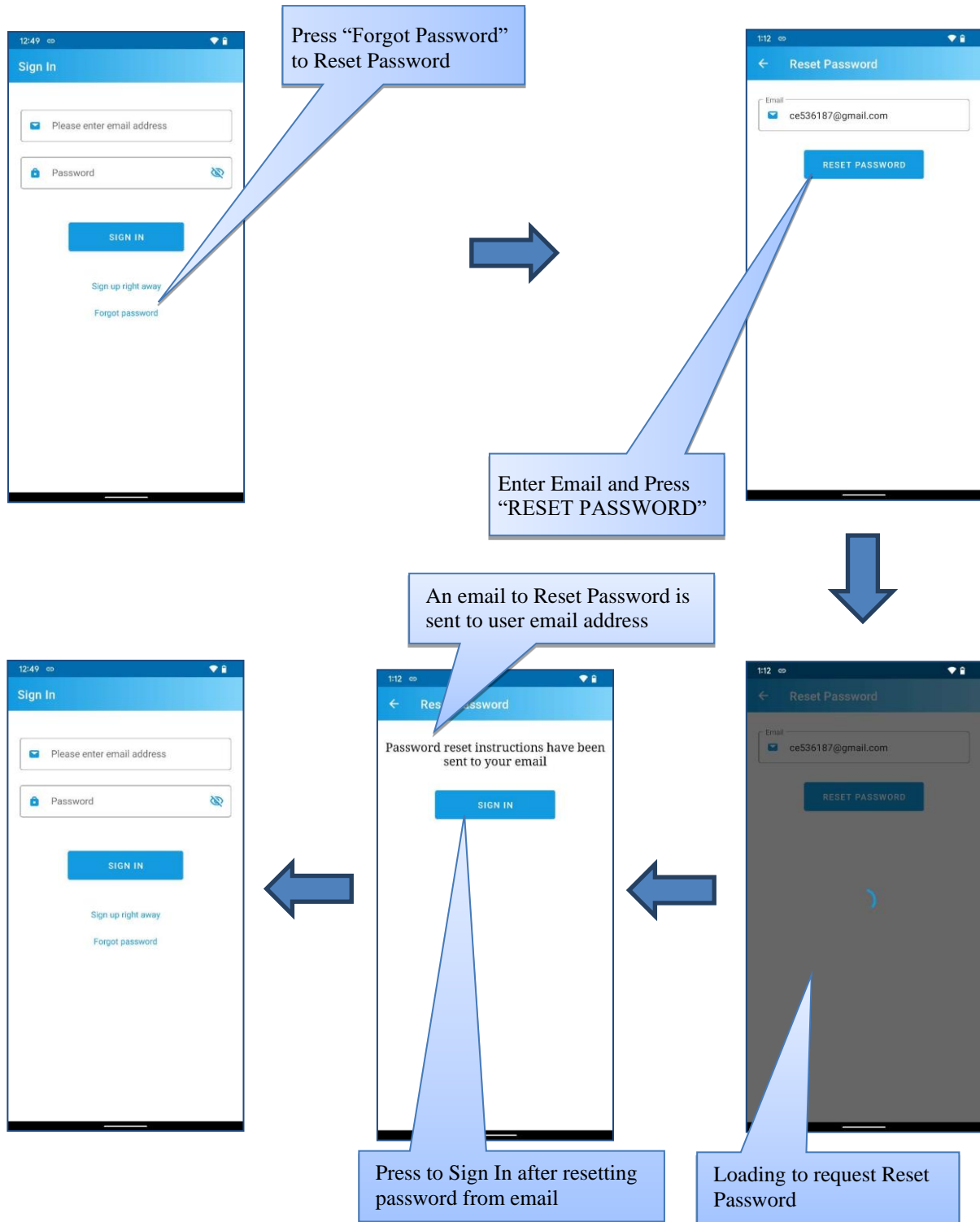


Figure 9-1: Request Reset Password from App

Please review [How to Reset Password from email](#) section to complete Reset Password from email. Then Sign In with new password and continue using the App.

9.2 How to Reset Password from email

After pressing on “RESET PASSWORD” button from [How to request Reset Password from App](#) section, an email will be sent to the email address of the user. From user email, continue reset the Password.

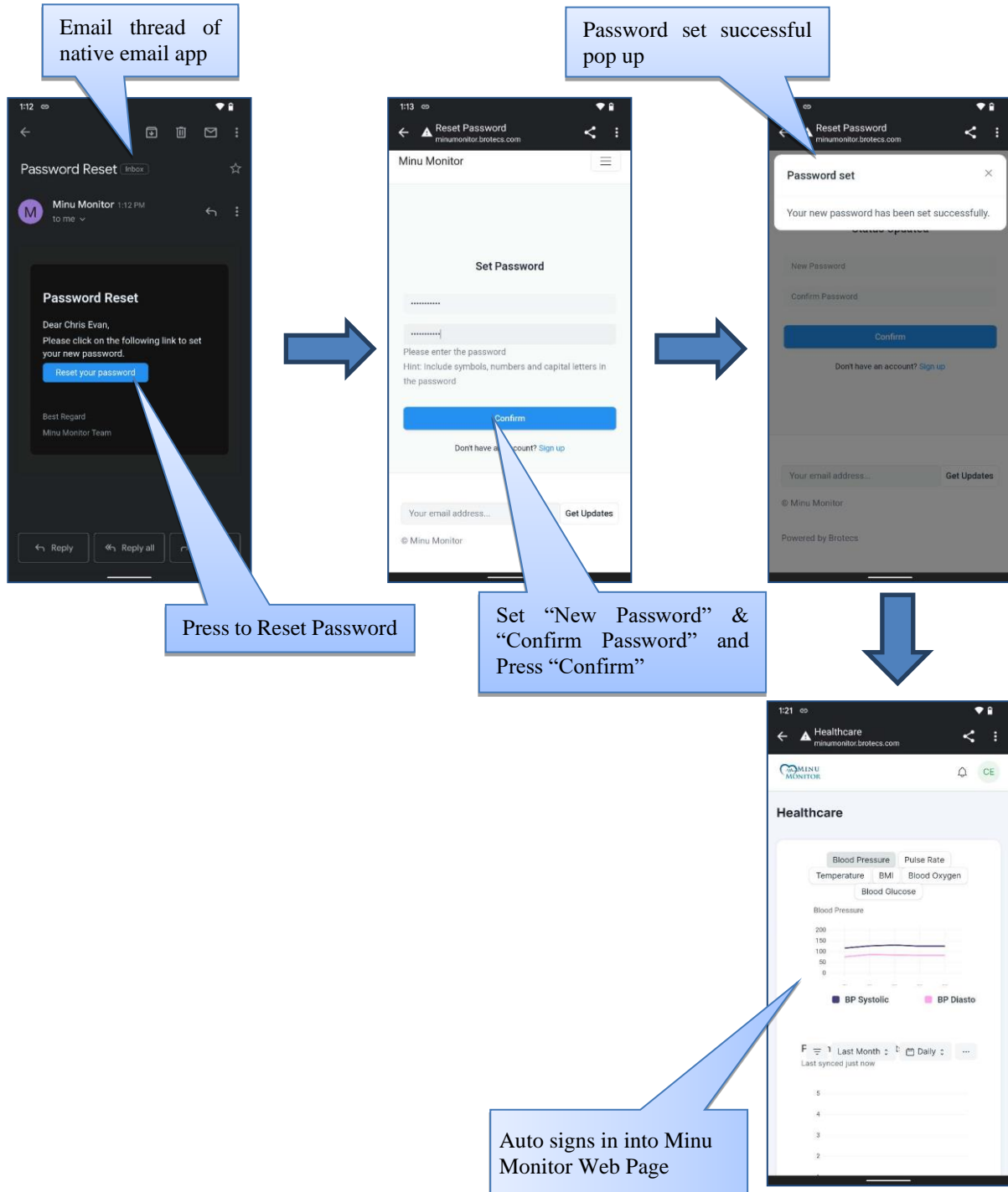


Figure 9-2: Reset Password from email

Appendix A

How to Login Minu Monitor web as a Patient

Open your preferred browser and enter Minu Monitor – Ground Server's IP or Domain (i.e., <https://minumonitor.brotecs.com/>), you will be guided to the Minu Monitor Login page.

To Login into the system,

- i. Enter a valid registered Email,
- ii. Enter its valid Password,
- iii. Click the **Login** button to login.

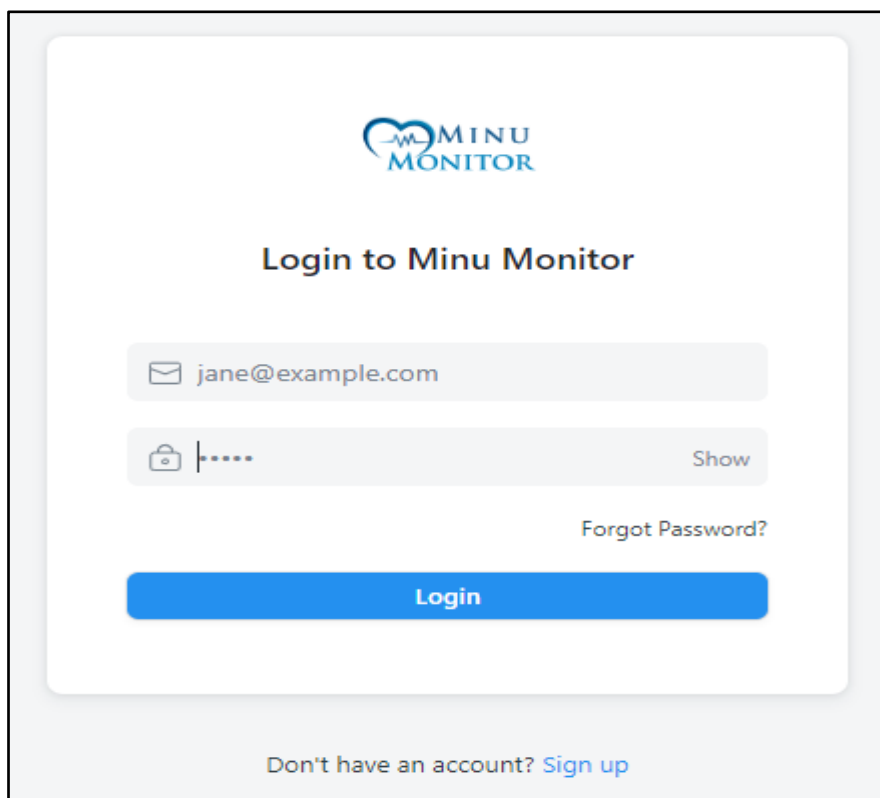
The image shows a web login interface for 'Minu Monitor'. At the top center is the logo, which consists of a heart icon with a pulse line and the text 'MINU MONITOR'. Below the logo, the title 'Login to Minu Monitor' is displayed. There are two input fields: the first is for an email address, containing the text 'jane@example.com', and the second is for a password, shown as a series of dots. To the right of the password field is a 'Show' button. Below the password field is a link that says 'Forgot Password?'. A large blue 'Login' button is positioned below the input fields. At the bottom of the page, there is a link that says 'Don't have an account? Sign up'.

Figure A- i:Minu Monitor Web Login Page

Healthcare Page

The Healthcare is the landing page for the Minu Monitor. Upon successfully Login from the Minu Monitor Login page, the web GUI will be directed to the Minu Monitor *Healthcare* page.

Figure A- ii depicts the view of the Minu Monitor *Healthcare* page:

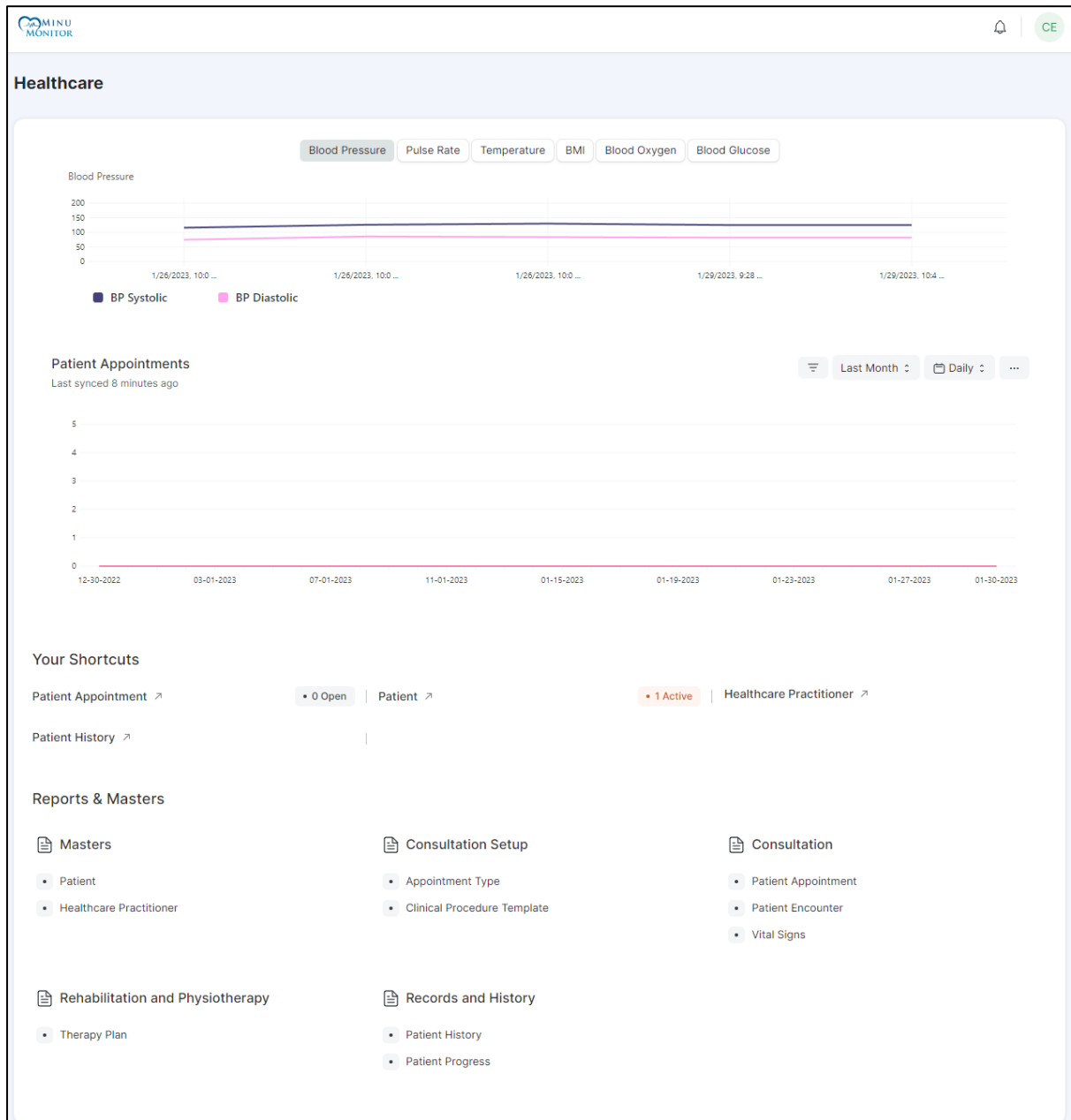


Figure A- ii: Minu Monitor – Healthcare Page

Vital records in Healthcare

When the vitals measurements are done from the Android App side, all measurement records can also be seen from the **Healthcare** page.

The following image depicts the view of all vital records section in **Healthcare** page:

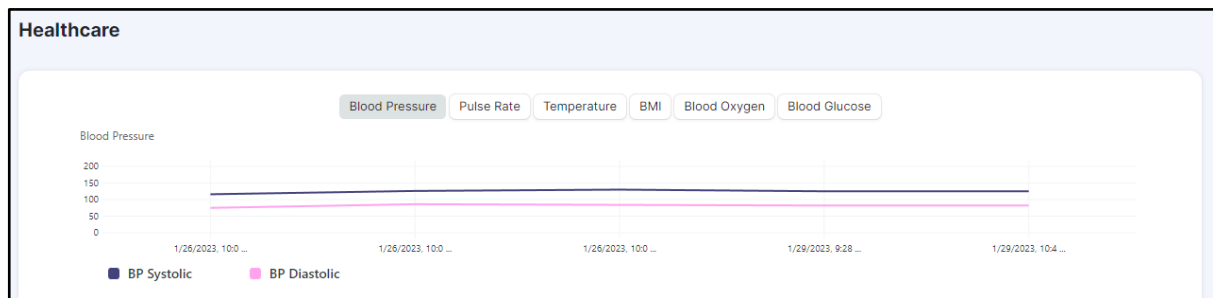


Figure A- iii: Healthcare Page – Vital Records

Please review the [Record](#) section to see vital measurement records in App.

Vital Signs in Healthcare

Healthcare -> Reports & Masters -> Vital Signs

After successfully creating appointment from the app, user can view all appointments from **Vital Signs** section of **Healthcare** Page.

The following image depicts the view of appointment list in **Vital Signs** section of **Healthcare** page:

ID	Title	Status	Patient	Body T...	Heart R...	Respira...	Blood O...	Blood P...	Blood P...	ID
Chris Evi	Sub...	HLC-PA...	37	95	98	125	82	HLC-VT...	-	22 h
Chris Evi	Sub...	HLC-PA...	39	95	98	125	82	HLC-VT...	-	23 h

Figure A- iv: Healthcare Page – Vital Signs

Please review the [Appointment list](#) section to see appointment list in App.

Appendix B

Vital Signs Monitor devices vary in their structures according to their manufacturer. We have added all the below images and steps to perform Vital Signs measurement upon considering common structure of a Vital Signs Monitor device.

Structure of Vital Signs Monitor Device

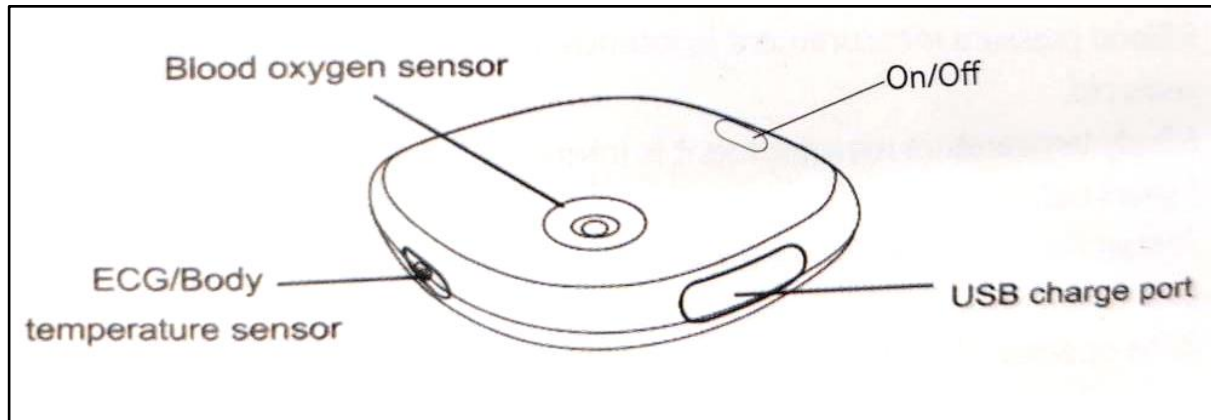


Figure B- i: Structure of Vital Signs Monitor Device

Guidelines for ECG Measurements

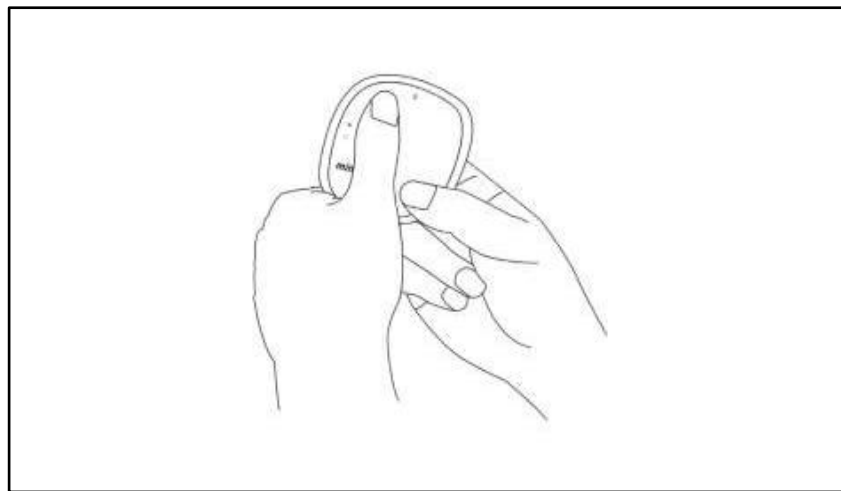


Figure B- ii: Guidelines for ECG Measurements

Contact the left thumb with the blood oxygen sensor, the two hands should not touch each other. Then place the fingers of the right hand on the metal plate at the back of the device. The power button is palm-facing.

Now continue the measurement procedure from app by following the [How to measure ECG](#) section.

Guidelines for Blood Pressure Measurements

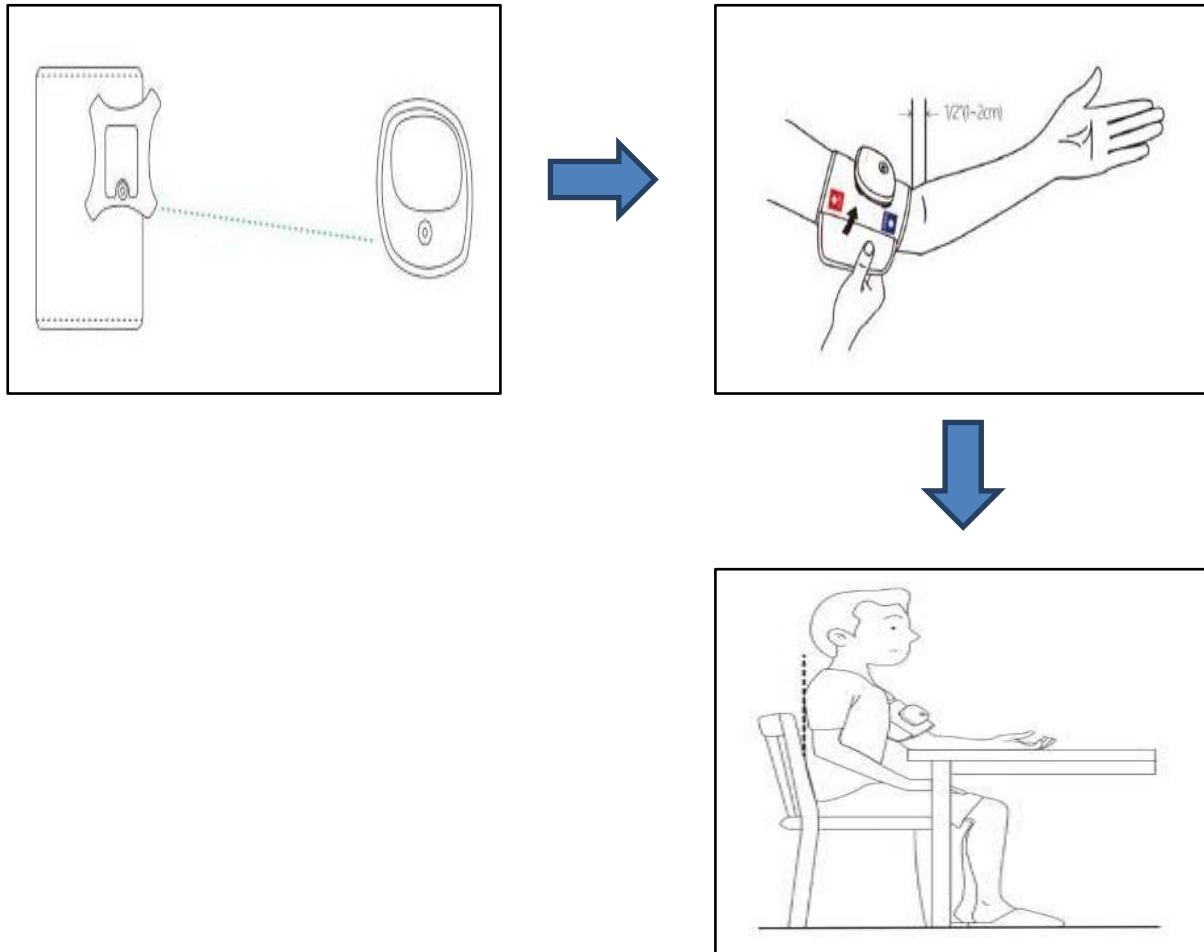


Figure B- iii: Guidelines for Blood Pressure Measurements

Fix the device on the device card slot of the sleeve and make sure the device is aligned with the hole on the sleeve.

Put the vital signs monitor device to the cuff is approximately 1 to 2 cm above the elbow and loosen or tighten it as long as it's comfortable.

Keep calm, sit down and don't talk.

Now continue the measurement procedure from app by following the [How to measure Blood Pressure](#) section.

Guidelines for Blood Oxygen Measurements

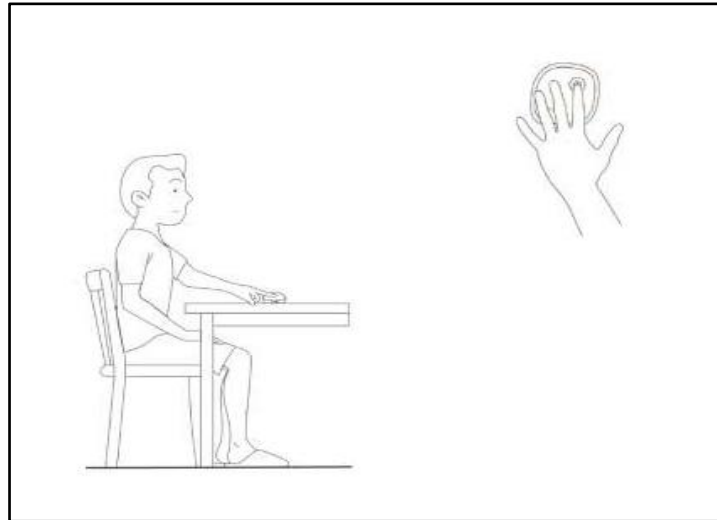


Figure B- iv: Guidelines for Blood Oxygen Measurements

Adjust your sitting position and keep quiet. Keep the monitor flat on the table. Put the fingertip of the index finger on the oxygen detector.

Now continue the measurement procedure from app by following the [How to measure Blood Oxygen](#) section.

Guidelines for Blood Glucose Measurements

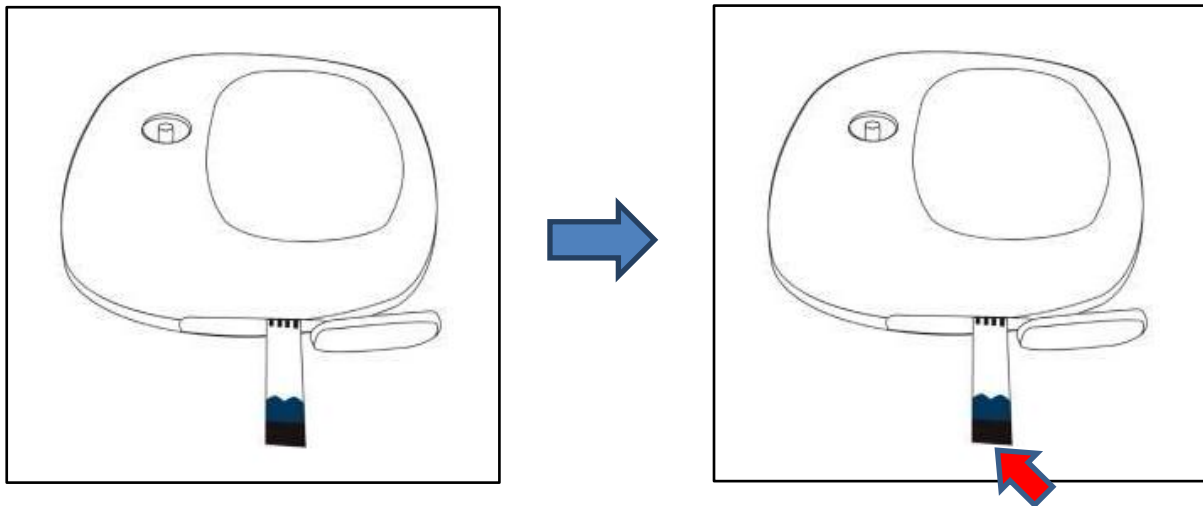


Figure B- v: Guidelines for Blood Glucose Measurements

Insert the test script into the blood glucose test strip interface as shown in **Figure B- v**. After the test strip is inserted correctly, drop the blood from your finger on the collection area at the front of the test paper correctly.

Now continue the measurement procedure from app by following the [How to measure Blood Glucose](#) section.

Guidelines for Body Temperature Measurements

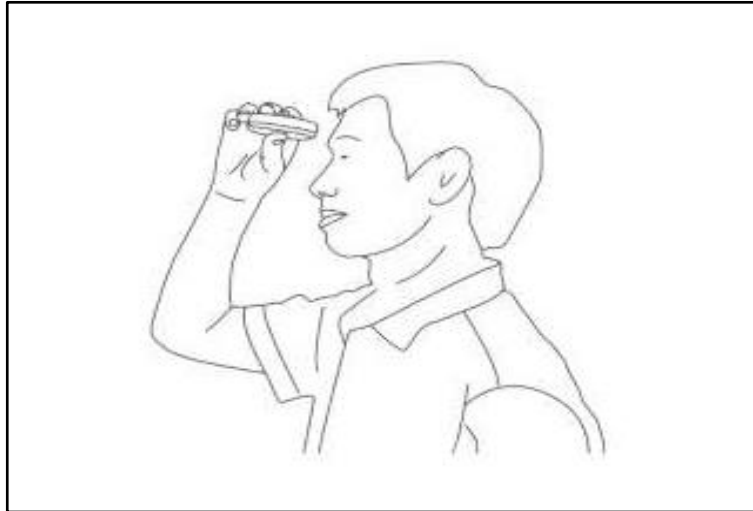


Figure B- vi: Guidelines for Body Temperature Measurements

Clean your forehead before measuring. The distance between the side of the device with the infrared sensor and the head is two fingers.

Now continue the measurement procedure from app by following the [How to measure Body Temperature](#) section.

=====The End=====