

Gravitate-Health

# Instructions for MVP3 testing

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## 2 Introduction

Thank you for participating in the third testing of the Gravitare-Health functionalities. Please remember that **the app is a test environment** to test the developed functionalities.

The goal of Gravitare-Health is to enhance patient experiences through personalized digital resources. In this MVP Testing approach, we aim to evaluate how effectively users can manage their conditions using personalized electronic Product Information (ePI) and additional support materials in a digital format. This evaluation focuses on technical improvements and usability facilitated by the 'lens' concept, which highlights the most relevant data based on the International Patient Summary (IPS) of each patient.

In this test, you will assume the role of Alicia, born in 1998, who manages health conditions including depressive disorder, HIV, and being overweight. Your task is to explore the functionalities of Gravitare-Health across various scenarios, providing valuable feedback on technical aspects and user experience.

You will complete one introductory script followed by two test scripts, each carefully designed to evaluate the diverse functionalities.

Please follow the steps below to download the app where you can test the features.

## 3 MVP3 installation and functionality

### 3.1 Installation and log in

You can download the app where you can test the features on your phone by using these instructions

#### For Android (Beta version)

##### Step 1: Join the Beta Program

- Open the shared [link](#) on your Android device.
- Tap **“Become a Tester”**.

##### Step 2: Install the App

- After joining, you’ll see a link to download the app from the **Google Play Store**.
- Tap **“Download it on Google Play”**.
- Tap **Install**.
- Once installed, open the app and start testing!

You may need to wait a few minutes after joining the beta for the download to be available.

#### For iOS (TestFlight version)

##### Step 1: Install TestFlight

- Open the **App Store** on your iPhone or iPad.

## Instructions for MVP3 testing (short version)

- Search for **TestFlight** or use this direct link:  
<https://apps.apple.com/us/app/testflight/id899247664>
- Tap **Get** and install TestFlight.

### Step 2: Accept the Invitation

- Open the shared [link](#) on your iOS device.
- Tap **“Accept”** to join the beta.

### Step 3: Install the App

- After accepting, you’ll be redirected to the TestFlight app.
- Tap **Install** next to the app name.
- Once installed, open the app and begin testing!

Keep TestFlight installed — it notifies you when a new version is available and provides easy feedback options.

You can log into the app using these credentials:

- Email: [alicia@gravitatehealth.eu](mailto:alicia@gravitatehealth.eu)
- Password: alicia\_password4321

## 3.2 Functionality and medicinal products within the app

Below, you will find an overview of the features available within the MVP3 app, alongside a list of accessible medicinal products.

### 3.2.1 Functionality

#### 3.2.1.1 Profile Management

The data is retrieved from the Electronic Health Record (EHR) based on the International Patient Summary (IPS).

This functionality allows you to view Alicia’s fictional personal data which will influence personalized medication leaflet. The personal data cannot be edited.

Personal data available:

- Date of birth
- Gender
- Health conditions

#### 3.2.1.2 Medication Leaflets:

Upon selecting a medication, you can explore detailed content through a variety of features.

Leaflet:

### Instructions for MVP3 testing (short version)

- The full medication leaflet.
- You can navigate the different sections of the leaflet.
- The sections are conveniently collapsed into drop down menus, allowing you to view them with a single tap
- Chatbot: In the search field, you can ask questions about the selected ePI

#### Personalized leaflet:

- Relevant sections are highlighted based on Alicia's IPS to make important details easy to find.
- Non relevant sections are conveniently collapsed into drop down menus, allowing you to view them with a single tap
- Lens explanation: You can visualize all lenses description and explanation of a selected ePI in a specific section Tap on text highlighted in green for more details about why the text has been marked important for Alicia.
- Additional materials: Explore extra resources available to support the leaflet in this section. Available formats may include audio, video and text. Tap any item in the list to access the content
- Additional materials: View all additional materials related to the selected leaflet filtered by category for quick navigation
- Chatbot: In the search field, you can ask questions about the selected ePI

#### Summary Leaflet

- Provides a summary of the leaflet
- The summary is generated by AI and might not capture all details or nuances of the original document

#### Support materials

- Explore extra resources available to support the leaflet in this section. Available formats may include audio, video and text. Tap any item in the list to access the content
- View all additional materials related to the selected leaflet filtered by category for quick navigation
- **Please note** that the materials are manually added for testing purposes as examples of support material

#### Chatbot

- Provides responses solely based on the information within the ePI of medications.
- Note that it may provide incorrect or incomplete responses
- It does not offer medical advice, diagnosis or treatment

#### 3.2.1.3 Settings

This section offers you guidance through the app features in addition to options for personalization of the app

- Onboarding: Guides you through the features of the app
- Language preferences: Gives possibility to change languages (e.g., English and Spanish) in the settings section to visualize the ePI in the selected language

## Instructions for MVP3 testing (short version)

- Lenses settings: You can turn on/off the lenses
- Visual settings: Provides possibility to change to dark mode and change font size

### 3.2.1.4 Search Functionality

The search icon on the bottom line of the app allows you to search for a new medication and access the ePI, such as:

- Ibuprofen 600 mg tablets
- Amoxicillin 250 mg tablets
- Dovato 50mg/300 mg film-coated tablets
- Karvea 75mg tablets
- Metformin 500mg tablets
- Novorapid Flexpen 100 units/ml

### 3.2.2 Available medicinal products

This is Alicia's medication list. **Please note** that these medications are manually added for testing purposes as examples of prescribed or over the counter medication.

**Biktarvy 30 mg/120 mg/115 mg film coated tablets**

- Summary available in English and Spanish.
- Support material in English

**Tegretol (Carbamazepine) 200 mg tablets**

- Summary available in English and Spanish.
- Support material in English

**Xenical (Orlistat) 60 mg capsule**

- Summary available in English and Spanish with slightly different layout
- Support material in English

**Flucelvax 15 mcg/ 1 suspension for injection**

- Summary available in English and Spanish
- Support material in English

**Hiperico arkopharma capsulas duras**

- Summary available in English and Spanish
- Support material in English

**Calcium/Vitamina D3 rovi 1000 mg/880 UI comprimidos efervescentes**

- Summary available in English and Spanish
- No support material available

## 4 MVP3 testing

### 4.1 Introduction: Exploring Alicia's Medications and the G-lens® Functionality

#### Objective:

Become familiar with the app's capabilities in managing medications and providing personalized information through the G-lens.

#### Scenario:

Alicia needs to understand the functionality of the Gravitate-Health app, focusing on managing her medications and utilizing the G-lens for customized advice.

#### Steps:

- 1) App Launch and Profile Overview:
  - a. **Action:** Log in to the Gravitate-Health app with the user credentials.
  - b. **Expected outcome:** Able to log in and out without problem. Get familiarized with Alicia's profile information including date of birth, gender, and problem list
- 2) Accessing the Medication Leaflets:
  - a. **Action:** Tap continue to view the list of Alicia's prescribed medications
  - b. **Expected outcome:** Get familiarized with Alicia's medication list
- 3) Exploring Leaflet Types:
  - a. **Action:** Select Biktarvy. Click on the different types of leaflets – full, personalized, summary – and any available support materials.
  - b. **Expected outcomes:**
    - i. Get familiarized with all the types of leaflets.
    - ii. Experience how the information changes when viewing the full leaflet to the personalized leaflet based on Alicia's health profile
    - iii. See the activated lenses: interaction lens, conditions and health problem lens and pregnancy lens
- 4) Searching for content within the leaflet
  - a. **Action:** Click on the search field while in the Biktarvy leaflet. Search for: "side effect"



### Instructions for MVP3 testing (short version)

- i. Access the leaflet for Dovato.
- ii. Experience that the medication has a full leaflet, personalized leaflet, summary and chatbot, but no support material is available

## 4.2 Test Script 1: Sudden Headache and Over the Counter (OTC) Medication

### Objective:

Evaluate app functionality in managing unexpected symptoms and medication interactions.

### Scenario:

Alicia experiences an unexpected and severe headache and is wary of taking OTC pain relief like Ibuprofen due to possible interactions with her current medications.

### Steps:

- 1) Symptom Check:
  - a. **Action:** Use app features to investigate if Alicia's current medications list headaches as a potential side effect in section 4 of the leaflet. You have to check each of the medications
  - b. **Expected outcomes:**
    - i. Find that Biktarvy, Tegretol and Xenical all have listed headache as common or very common side-effect.
    - ii. For Flucelvax, headache is reported as a mild side effect, for Hiperico the frequency is unknown, but headache is reported.
    - iii. Headache is not reported for Calcio/vitamin D3.
- 2) Using the Search Feature (search icon on the bottom of the app) :
  - a. **Action:** Perform a search for Ibuprofen within the app's database.
  - b. **Expected outcome:** Find the leaflet for Ibuprofen 600 mg tablets

## Instructions for MVP3 testing (short version)

- c. **Action:** Read section 2, Other medication and Ibuprofen, in the Ibuprofen leaflet and look for interaction with Biktarvy (Bictegravir) and Tegretol (Carbamazepine)
  - d. **Expected outcome:** There is no mention of interactions between Ibuprofen and Biktarvy (Bictegravir) or between Ibuprofen and Tegretol (Carbamazepine).
  - e. **Action:** Check the personalized leaflet for Biktarvy for interactions to Ibuprofen
  - f. **Expected outcome:** There is no mention of interactions between Biktarvy and Ibuprofen
- 3) **Action:** Check the personalized leaflet for Tegretol for interactions to Ibuprofen
- a. **Expected outcomes:** There is no mention interactions between Tegretol and Ibuprofen
  - b. **Please note:** Although the ePI does not mention interactions between Ibuprofen and Biktarvy or Tegretol, this absence of information does not imply that interactions do not exist; rather, it indicates a lack of documented evidence. On the other hand, an interaction highlighted serves to inform you that “this is important for you”. Some interactions can be beneficial, while others might be unavoidable due to a lack of alternatives. The idea is to provide the user with information to discuss with the clinical team if doubts arise without interfering with the clinical decision-making process.

## 4.3 Test Script 2: Traveling and Medication Management

### Objective:

Assess how well the app supports medication management and interaction checking while traveling

### Scenario:

Alicia is vacationing in Greece and needs to maintain her medication regimen effectively.

### Steps:

- 1) Medication storage:
  - a. **Action:** Access the "Medication List" section to locate storage instructions for Biktarvy, Tegretol, Xenical, Hiperico and Calcio/Vitamin D3.

## Instructions for MVP3 testing (short version)

- b. **Action:** Determine whether special storage conditions, such as refrigeration, are required for safe use during her trip.
  - c. **Expected outcome:** None of the medications require special storage such as a refrigerator
  - d. **Action:** Go to Tegretol and ask the chatbot the following: “Do I have to keep the medication away from direct sunlight?”
  - e. **Expected outcome:** The chatbot will answer something similar to: According to the context, it doesn’t explicitly state that you need to keep the medication away from sunlight. The conservation instruction only mention keeping the medication below 25°C and storing it in its original packaging to protect from moisture. There is no specific instruction about direct sunlight.
  - f. **Action:** Follow up with this question: “Where do you recommend storing the medication while on vacation?”
  - g. **Expected outcome:** The chatbot will answer something similar to: Based on the context, it is recommended to store the medication in a cool place, below 25°C.
    - i. If the answer is “Jwt is expired”, please log in and out again
- 2) Health event during travel:
- a. **Scenario:** On her vacation, Alicia feels unwell, consults a doctor, and is prescribed an Amoxicillin 250 mg tablets for a mild upper respiratory infection.
  - b. **Action:** Search for Amoxicillin 250 mg tablets using the app’s search feature.
  - c. **Action:** Look in the leaflet section 2 and review the information under “Other medicines and Amoxicillin Capsules to find out if there are interactions with her prescribed medications.
  - d. **Expected outcome:** There is no mention of interactions with existing medications is found. The medication appears to be safe to use.

#### 4.4 Evaluation

Thank you for completing the MVP3 Testing of the Gravitare-Health app. Your feedback on the immediate usability and technical functionality is crucial for refining the app to better serve users like Alicia.

We invite you to participate in a brief evaluation to further share your thoughts and insights. This evaluation will focus on how well the app meets user needs and identifies potential areas for improvement.

To participate, please scan the QR code below, which will direct you to the evaluation form. Your contributions are incredibly valuable to us as we aim to enhance the Gravitare-Health app's efficiency and user satisfaction.

