



Bilkent University
Department of Computer Engineering

Senior Design Project
T2506
Hipograf

User Manual

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This document is submitted to the Department of Computer Engineering of Bilkent University in partial fulfillment of the requirements of the Senior Design Project course CS491/2.

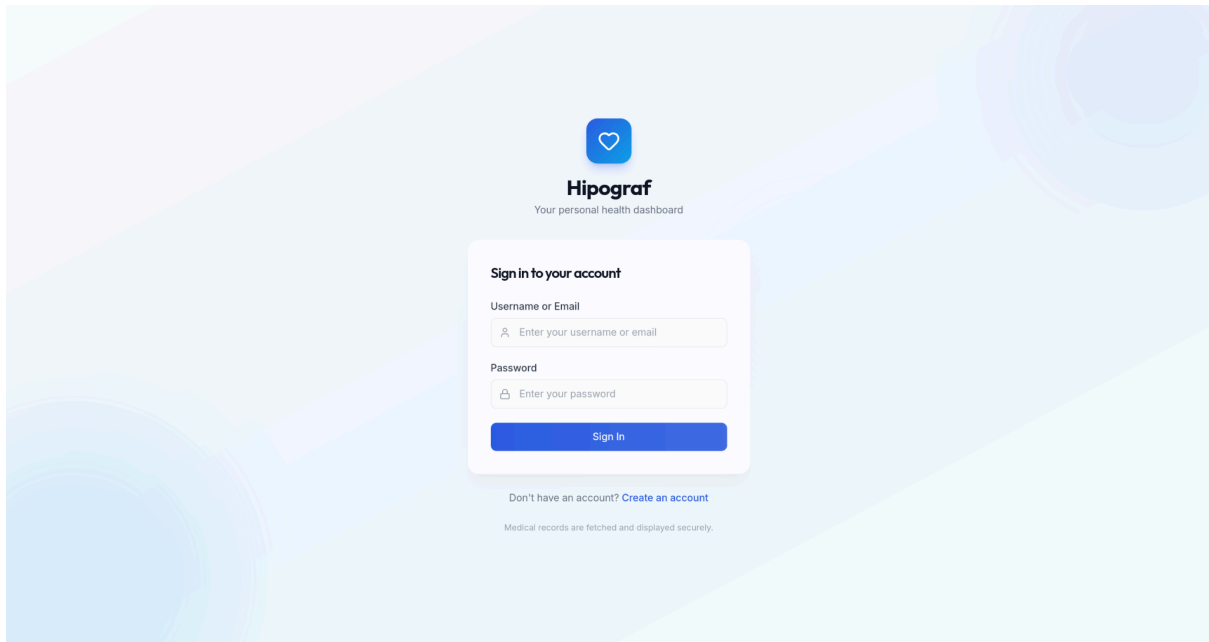
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Authentication Pages

Login Page, available at / (base path)

Users that have pre-existing accounts can use the login page to login to Hipograf by providing their email and password. Both patients and practitioners use the same login page. If they do not have an account, they can instead navigate to the Account Creation Page by clicking on the highlighted text seen below.



Account Creation Page, available at / (base path)

Users that do not currently have an account need to create one in order to be able to access Hipograf. They can do so from the account creation page by inputting a display name (ordinarily their full real name), username, email and password. They also choose an account type, either a patient or a practitioner. Patients should refer to the Patient Pages section of this manual while Practitioners should refer to the Practitioner Pages section of this manual.

Hipograf
Create your personal health dashboard

Create your account

Display Name
Your full name

Username
Choose a username

Email
you@example.com

Password
At least 8 characters

Confirm Password
Re-enter your password

I am a
 Patient Practitioner

Create Account

Already have an account? [Sign in](#)

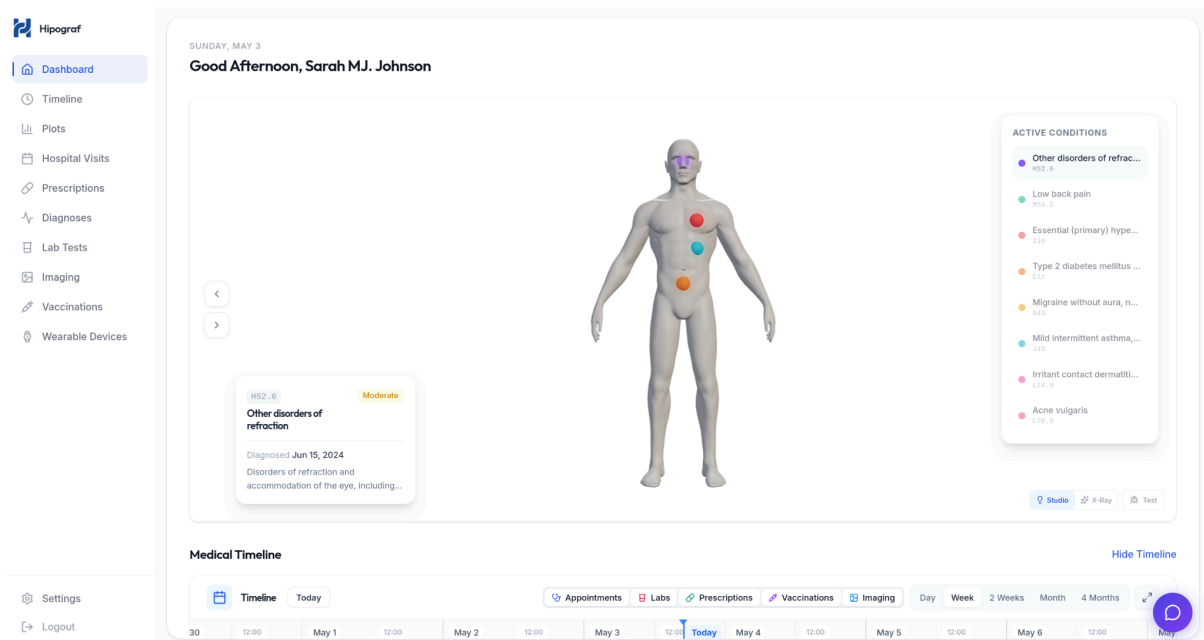
Medical records are encrypted and stored securely.

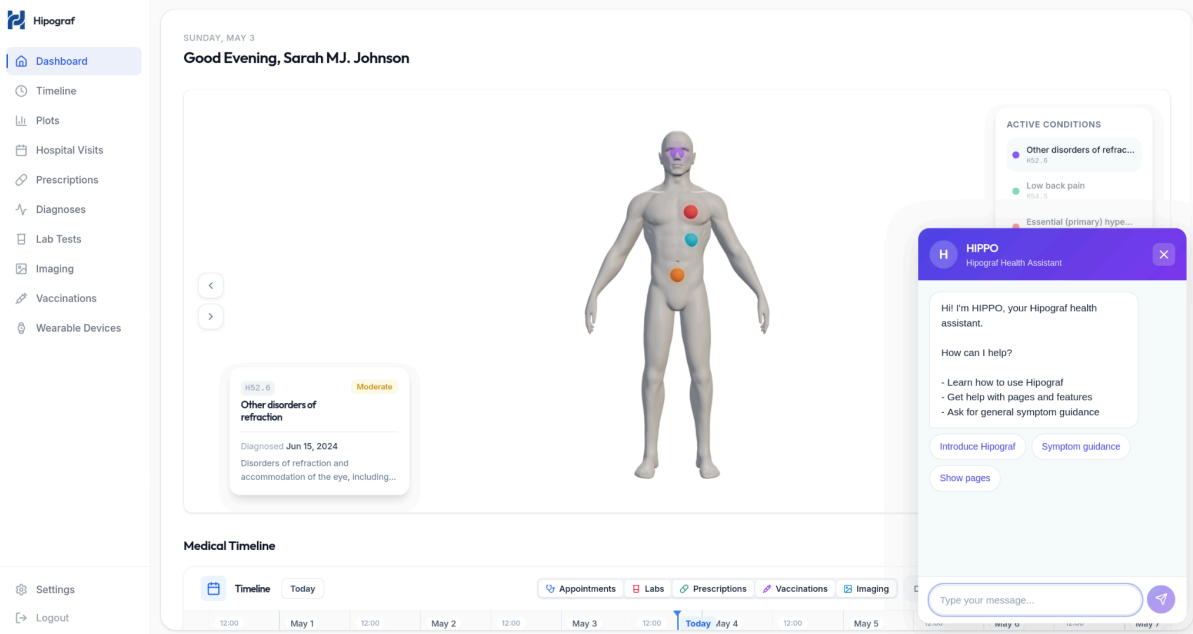
Patient Pages

Dashboard Page, available at / (base path)

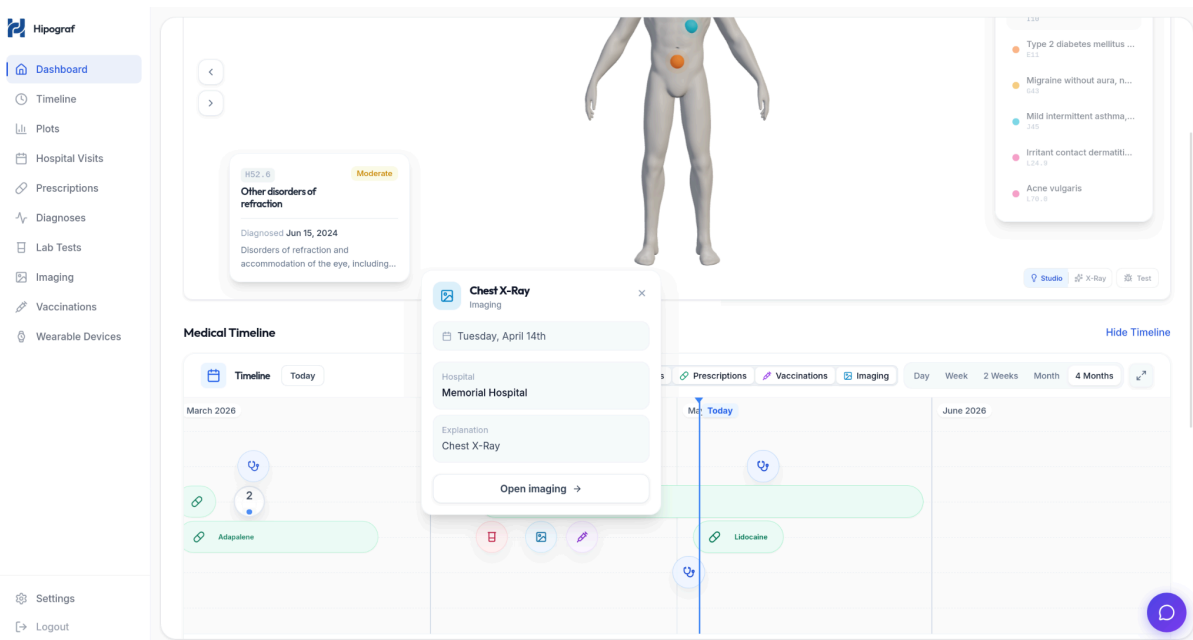
When the patient first logs in, they're greeted with a dashboard as well as a sidebar on the left of the screen. The sidebar is persistent and always visible regardless of which page the patient navigates to, serving as a reliable navigational anchor. Another persistent element is the LLM-powered chatbot available in the bottom right corner, named HIPPO, accessible by clicking on the circular purple button (with the chat menu seen in the second screenshot). HIPPO can provide assistance on navigating Hipograft

The dashboard page itself contains a 3-dimensional view of the human body in which the diagnoses of the patient along with their relative location on their body can be viewed. The diagnoses can be cycled through, and the body can also be viewed in x-ray (transparent) mode to see the diagnoses from inside the body.





Under the body view, there is a timeline. It will be elaborated on in the Timeline Page section, but essentially different kinds of medical events can be seen according to the times they took place in. The timeline can be toggled on and off.



Under the timeline there is a collection of widgets that show different bits of information about the patient, like their latest blood test results of active prescriptions. Different widgets can be turned on or off depending on user preference.

The screenshot displays the Hipograf patient dashboard. On the left is a navigation sidebar with options: Dashboard, Timeline, Plots, Hospital Visits, Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices. The main content area features a 3D human model with colored markers on the chest and abdomen. A widget below the model shows a diagnosis: "Other disorders of refraction" (ICD-9: H52.6, Severity: Moderate), diagnosed on Jun 15, 2024. To the right of the model is a list of conditions with colored markers: Low back pain (H54.5), Essential (primary) hypertension (I10), Type 2 diabetes mellitus (E11), Migraine without aura, n.s. (G43), Mild intermittent asthma (J45), Irritant contact dermatitis (L24.9), and Acne vulgaris (L10.9). Below this is a "Medical Timeline" section with a "Show Timeline" link. Under "HEALTH OVERVIEW", there are three widgets: "Recent Blood Work" (PDW 15, REF RANGE 1-15), "Current Prescriptions" (Ibuprofen 30mg As needed, Lidocaine 1g Daily), and "Recent History" (MAY 2 Acne vulgaris, APR 19 test, APR 8 Blood Work (OCR)). A "Settings" icon is visible in the bottom right corner of the main area.

Timeline Page, available at /timeline

The timeline page allows the user to view their medical events in various forms. The first of these is the Timeline view, where events appear as part of a Gantt Chart. Clicking on items on this view opens a more detailed view explaining the item. The user can also filter the kinds of events that are shown with the buttons on the bar at the top of the timeline.

The screenshot displays the Hipograf Medical Timeline interface. On the left is a sidebar with navigation options: Dashboard, Timeline (selected), Plots, Hospital Visits, Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices. At the bottom of the sidebar are Settings and Logout. The main content area is titled "Medical Timeline" and includes a subtitle "Appointments, tests, and current prescriptions." It features a top navigation bar with "Timeline" (selected), "Agenda", "Calendar", and "Schedule & History". Below this is a filter bar with "Appointments", "Labs", "Prescriptions", "Vaccinations", and "Imaging". The timeline itself spans from March 2026 to June 2026, with a vertical line for "Mon, Today". A modal window for "Blood Work (OCR) Labs" is open, showing the date "Wednesday, April 8th", the "ORDERING PHYSICIAN" as "Lab Coordinator", and a button to "Open blood tests". The timeline shows a green bar for "Adapalene" and a green bar for "Lidoc...". A blue bar at the bottom indicates the current view range.

The agenda page allows for more fine-grained viewing of the information. For medical records with times, such as appointments, they appear at their appropriate hour during the day. Records without such time data, such as prescriptions, can be viewed at the top of the agenda, showing up as “All Day”. Like the timeline view, clicking on events in this view opens a more detailed view of the event. This more detailed view can be used to go to the appropriate pages to gain more information about the event.

The screenshot shows the 'Medical Timeline' interface in 'Agenda' view. The left sidebar contains navigation options: Dashboard, Timeline (selected), Plots, Hospital Visits, Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices. The main content area displays a calendar for 'Apr 27 - May 3, 2026'. A detailed modal for an 'Ibuprofen' prescription is open, showing the following information:

- Medication:** Ibuprofen
- Frequency:** As needed
- Dosage:** 30mg
- Diagnosis:** Low back pain
- Status:** Prescribed 27 days ago (Active)
- Course:** Apr 7, 2026 → May 30, 2026 - 54 day course
- Action:** Open prescription →

The background agenda shows 'All Day' events for Ibuprofen on Monday, Tuesday, and Saturday, and 'Acne vulgaris' and 'Lidocaine' on Saturday and Sunday.

The calendar page is a regular calendar, with events placed at their appropriate places in the month.

The screenshot shows the 'Medical Timeline' interface in 'Calendar' view. The left sidebar is the same as in the previous view. The main content area displays a calendar for 'MAY 2026' (May 1, 2026 - May 31, 2026). The calendar shows 'All Day' events for various medications across the month:

- Ibuprofen:** Present on all days from May 26 to May 30.
- Lidocaine:** Present on May 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.
- Acne vulgaris:** Present on May 2 and May 3.

The calendar also includes a 'Today' button and navigation tabs for Appointments, Labs, Prescriptions, Vaccinations, and Imaging.

Clicking the date button changes the view to a year view, where each month is summarized in terms of the number of events it includes.

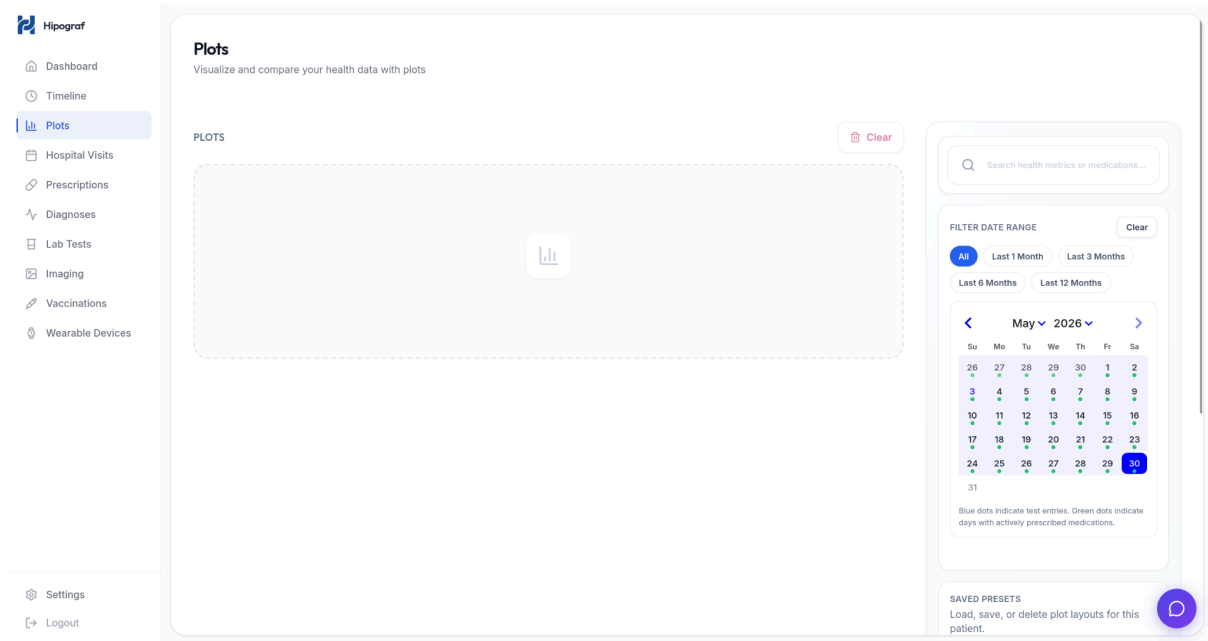
The screenshot shows the 'Medical Timeline' interface in 'YEAR VIEW' for the year 2026. The interface includes a sidebar with navigation options: Dashboard, Timeline (selected), Plots, Hospital Visits, Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices. At the bottom of the sidebar are 'Settings' and 'Logout' options. The main content area is titled 'Medical Timeline' and 'Appointments, tests, and current prescriptions.' It features a navigation bar with 'Timeline', 'Agenda', 'Calendar', and 'Schedule & History' tabs. Below this is a '2026 YEAR VIEW' section with a 'Today' button and filters for 'Appointments', 'Labs', 'Prescriptions', 'Vaccinations', and 'Imaging'. The main area displays a grid of 12 monthly boxes. The 'May' box is highlighted as 'CURRENT' and shows 2 appointments and 2 prescriptions. Other months show event counts for various categories: February (1 Lab), March (3 Appointments, 2 Prescriptions), April (1 Lab, 1 Prescription, 1 Vaccination, 1 Imaging), and several other months with 'No events'.

The Schedule & History view shows the recent events recorded in the user's profile, and their upcoming schedule.

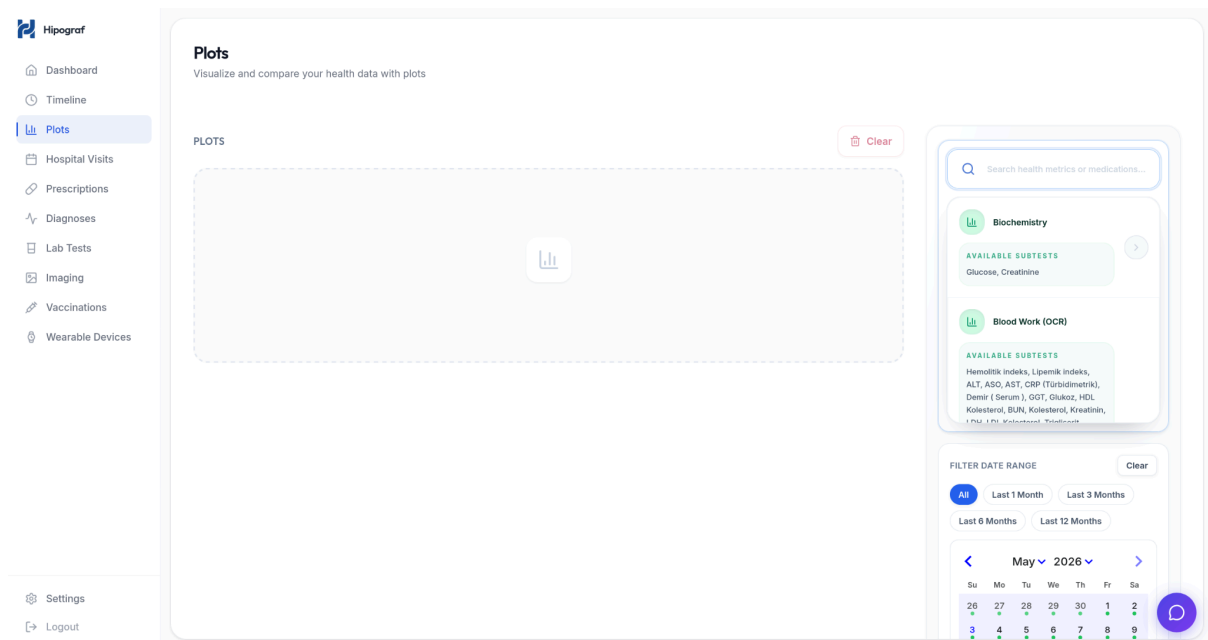
The screenshot shows the 'Medical Timeline' interface in 'Schedule & History' view. The sidebar and navigation tabs are the same as in the previous view. The main content area is titled 'Medical Timeline' and 'Appointments, tests, and current prescriptions.' It features a 'View Calendar' button and two main sections: 'Upcoming Schedule' and 'Recent History'. The 'Upcoming Schedule' section shows an appointment for 'Acne vulgaris' on May 11, with details: 'Patient discharged.', '00:00', and 'Dr. Emily Chen'. The 'Recent History' section shows a list of events: 'Acne vulgaris' (Follow-up in 3 months...), 'test' (Vaccination), 'Chest X-Ray' (Memorial Hospital), 'Blood Work (OCR)' (Lab Test Results), 'General' (No details provided), 'Orthodontics' (No details provided), and 'Irritant contact dermatitis, unspecified cause'.

Plots Page, available at /plots

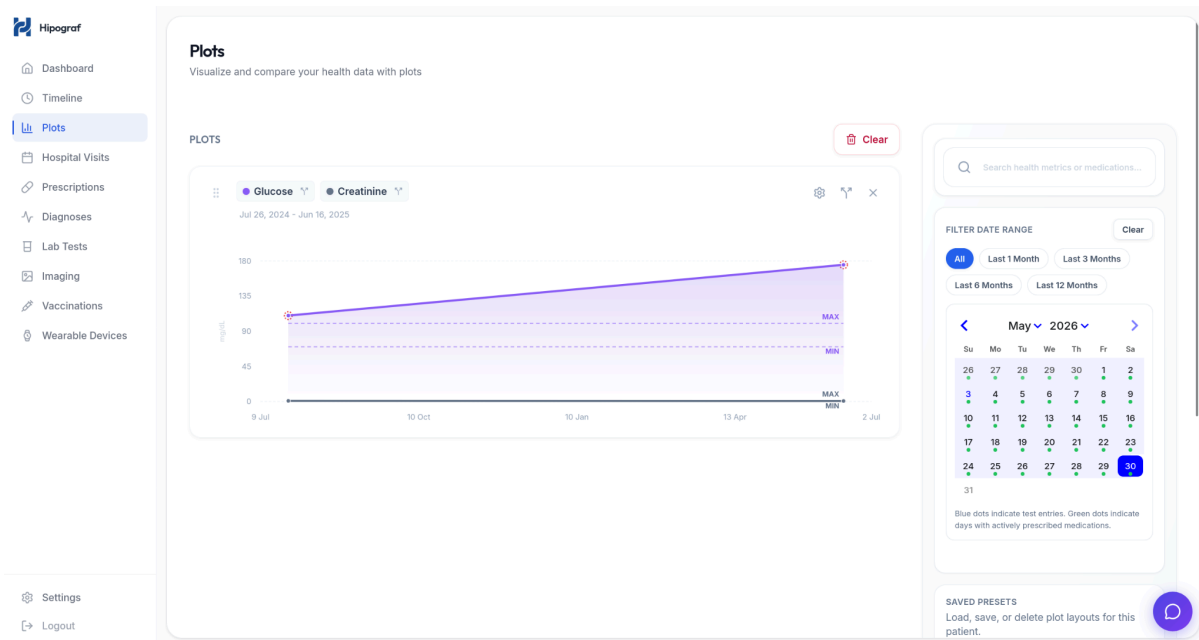
The plots page allows the user to create plots of their existing test, prescription and wearable data. by searching for the relevant data from the searchbar, selecting a timerange, and creating the plot.



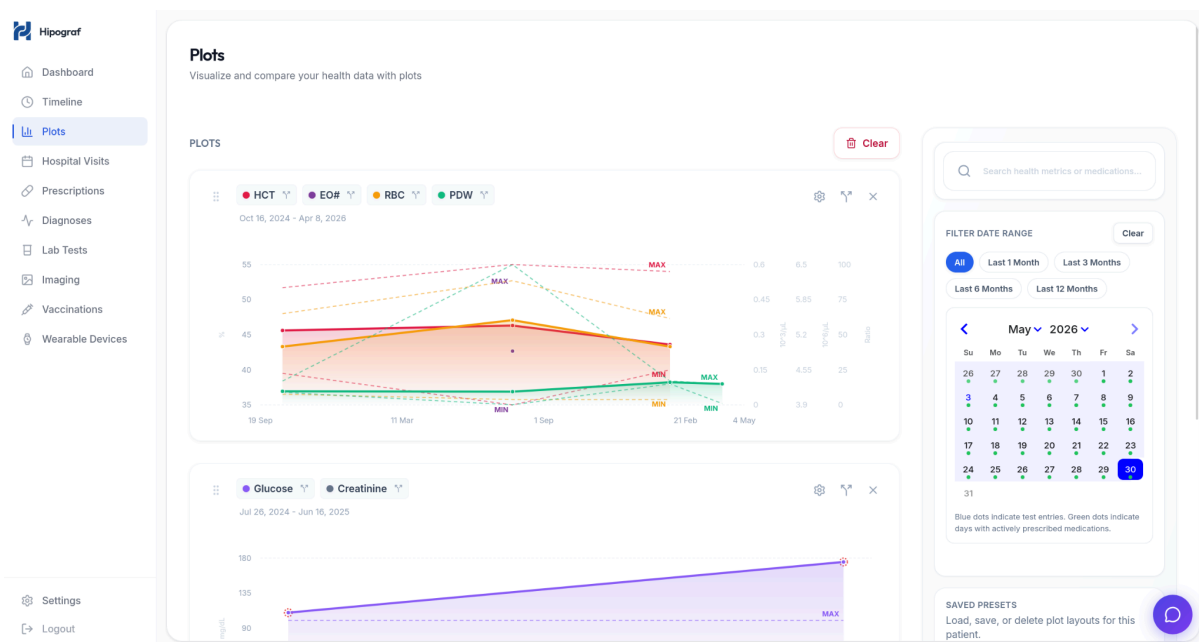
Patients can search for the relevant data from the search bar and select a relevant timerange.



Once the plot is created, it will be visible on the screen with time as the x axis, the parameter units as the y-axis and a legend at the top showing the colors of different parameters for easy identification. Reference values are shown with dotted lines, and out of reference values are highlighted with a dotted red circular outline.



Other plots can also be created using the same method, appearing above previously created plots.



Plots can be modified by clicking on the settings icon of the plot. The color and line/point style of independent parameters of the plot can be modified. It is also possible to normalize the graph in accordance with the reference values of the plotted data.

Plots
Visualize and compare your health data with plots

PLOTS

Oct 16, 2024 - Apr 8, 2026

SIZE: Small Medium Large

PLOT EDITOR
Parameter: EO#
Color: [Purple]
Style: Line Points
Line: Solid Points
Point: Circle

Normalize by Reference
Scale datasets to reference range

Export PNG

Glucose Creatinine

Jul 26, 2024 - Jun 16, 2025

180
135
90

MAX

19 Sep 11 Mar 1 Sep

Settings Logout

SEARCH: Search health metrics or medications...

FILTER DATE RANGE: All Last 1 Month Last 3 Months Last 6 Months Last 12 Months

May 2026

Su Mo Tu We Th Fr Sa
26 27 28 29 30 1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

Blue dots indicate test entries. Green dots indicate days with actively prescribed medications.

SAVED PRESETS: Load, save, or delete plot layouts for this patient.

Plots
Visualize and compare your health data with plots

PLOTS

Oct 16, 2024 - Apr 8, 2026

SIZE: Small Medium Large

PLOT EDITOR
Parameter: EO#
Color: [Purple]
Style: Line Points
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Normalize by Reference
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180
135
90

MAX
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19 Sep 11 Mar 21 Feb 4 May

Settings Logout

SEARCH: Search health metrics or medications...

FILTER DATE RANGE: All Last 1 Month Last 3 Months Last 6 Months Last 12 Months

May 2026

Su Mo Tu We Th Fr Sa
26 27 28 29 30 1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

Blue dots indicate test entries. Green dots indicate days with actively prescribed medications.

SAVED PRESETS: Load, save, or delete plot layouts for this patient.

Plots can be freely combined by dragging one plot on top of another with the mouse and releasing. Individual parameters can be split from a combined graph by clicking on the small icon next to the parameter legend at the top of the plot. The plot can also be split entirely by clicking on the split button next to the settings button, and deleted by clicking on the X button next to that.

Hovering over a particular datapoint will show the measured and reference values for all parameters that have recorded data at that time.

Hipograft

- Dashboard
- Timeline
- Plots**
- Hospital Visits
- Prescriptions
- Diagnoses
- Lab Tests
- Imaging
- Vaccinations
- Wearable Devices

- Settings
- Logout

Hipograft

- Dashboard
- Timeline
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- Settings
- Logout

Plots
Visualize and compare your health data with plots

PLOTS Clear

Jul 26, 2024 - Apr 8, 2026

Legend: HCT, EO#, RBC, PDW, Glucose, Creatinine

Jul 25, 2025

HCT	0.130	(ref. range: -1.000 - 1.000)
EO#	-0.080	(ref. range: -1.000 - 1.000)
RBC	0.336	(ref. range: -1.000 - 1.000)
PDW	-0.812	(ref. range: -1.000 - 1.000)

MAX
MIN

24 Jun 15 Dec 7 Jun 27 Nov 9 May

Search health metrics or medications...

FILTER DATE RANGE Clear

All Last 1 Month Last 3 Months
Last 6 Months Last 12 Months

May 2026

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Blue dots indicate test entries. Green dots indicate days with actively prescribed medications.

SAVED PRESETS
Load, save, or delete plot layouts for this patient.

Jul 26, 2024 - Jun 16, 2025

MAX
MIN

9 Jul 10 Oct 10 Jan 13 Apr 2 Jul

Jul 26, 2024 - Jun 16, 2025

MAX
MIN

9 Jul 10 Oct 10 Jan 13 Apr 2 Jul

FILTER DATE RANGE Clear

All Last 1 Month Last 3 Months
Last 6 Months Last 12 Months

March 2026

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

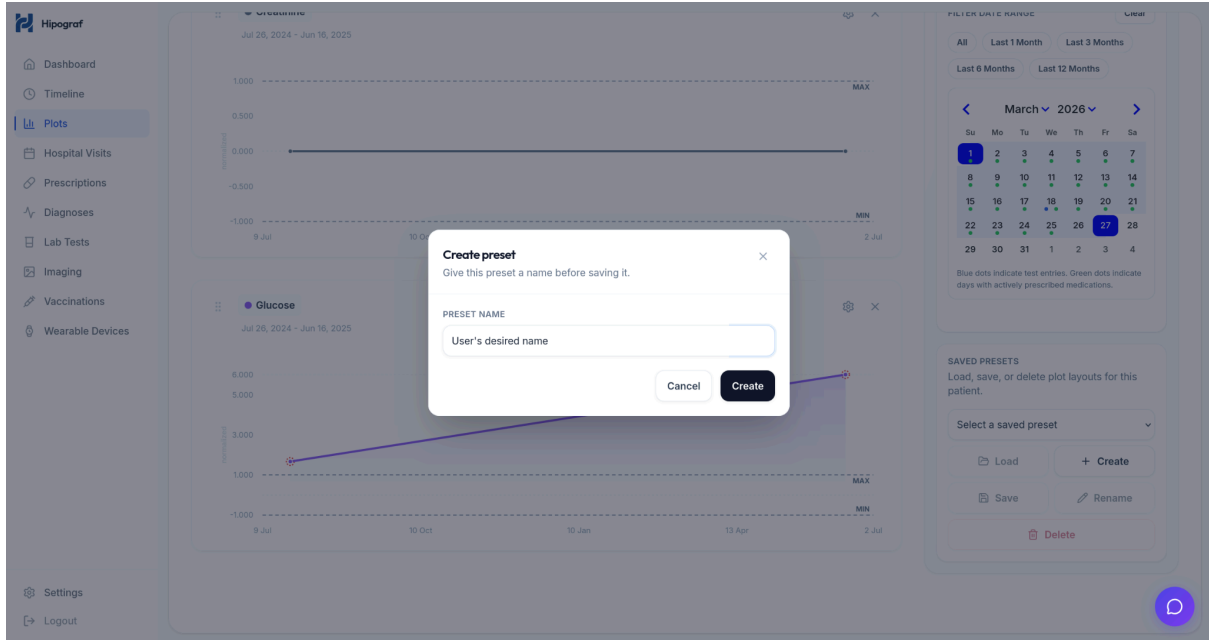
Blue dots indicate test entries. Green dots indicate days with actively prescribed medications.

SAVED PRESETS
Load, save, or delete plot layouts for this patient.

Select a saved preset

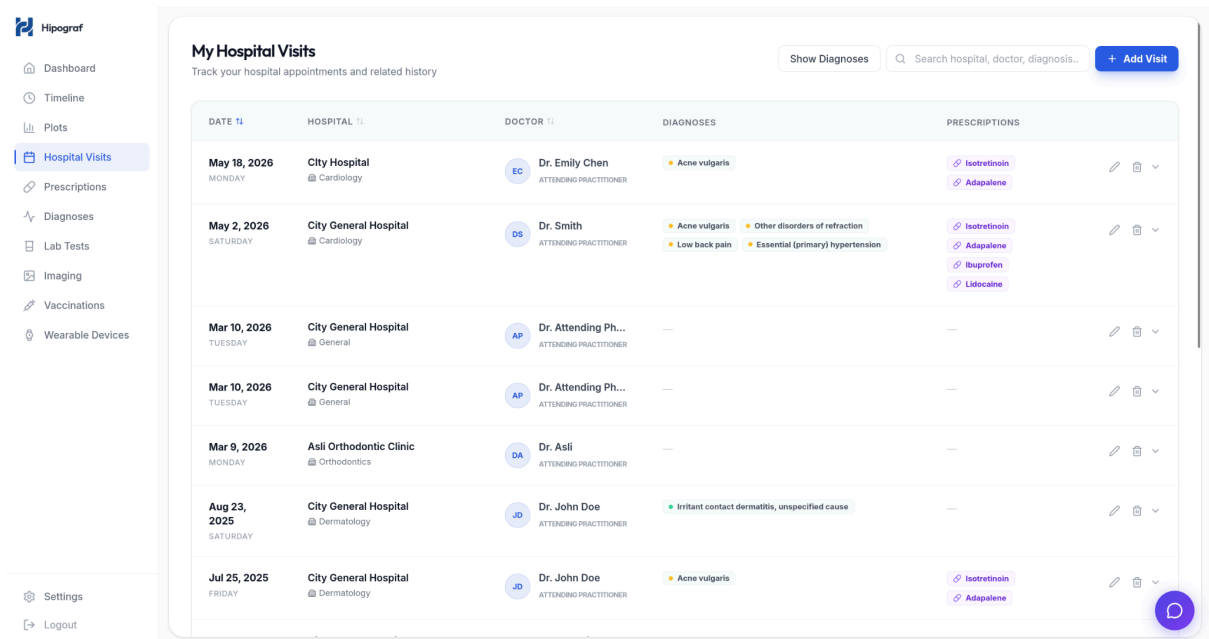
Load + Create
Save Rename
Delete

The current plot configuration visible on the page can be saved as a preset with a unique name and reloaded at any time in the future. Presets can also be modified, renamed or deleted.



Hospital Visits Page, available at /visits

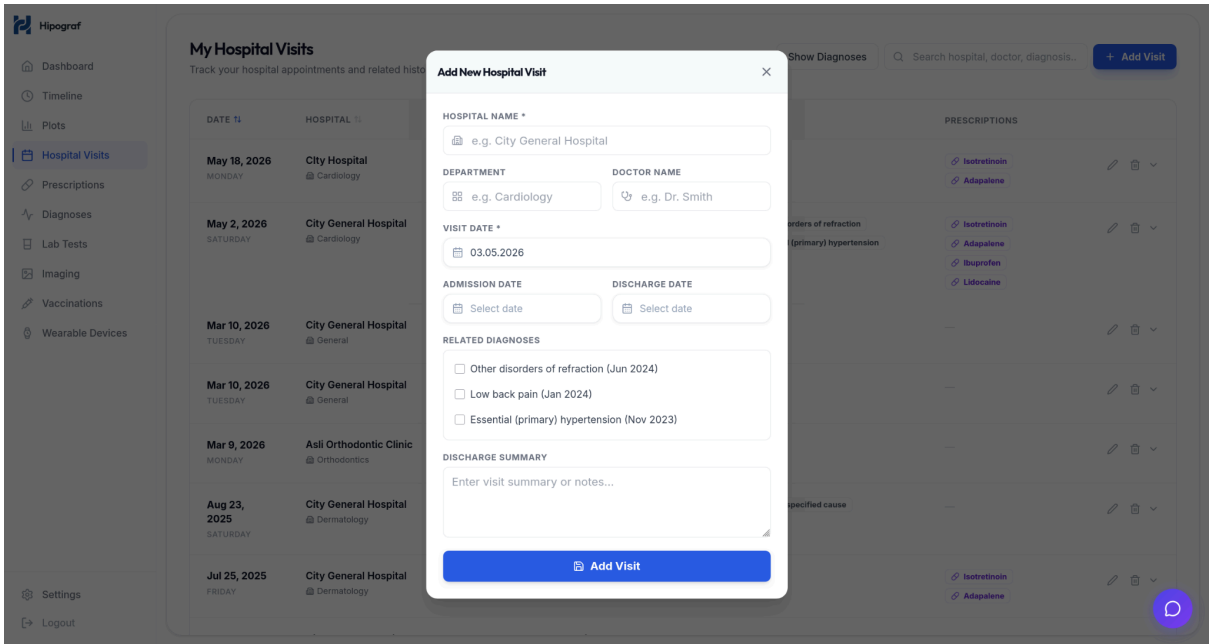
This page shows the user's hospital visits. The user is able to sort the list through various dates of the visit, the hospital that it was facilitated in, or the doctor that attended the visit.



Clicking on any one of the hospital visits on this list expands the item to include more information, including any linked diagnoses (and whether those diagnoses have any linked prescriptions).

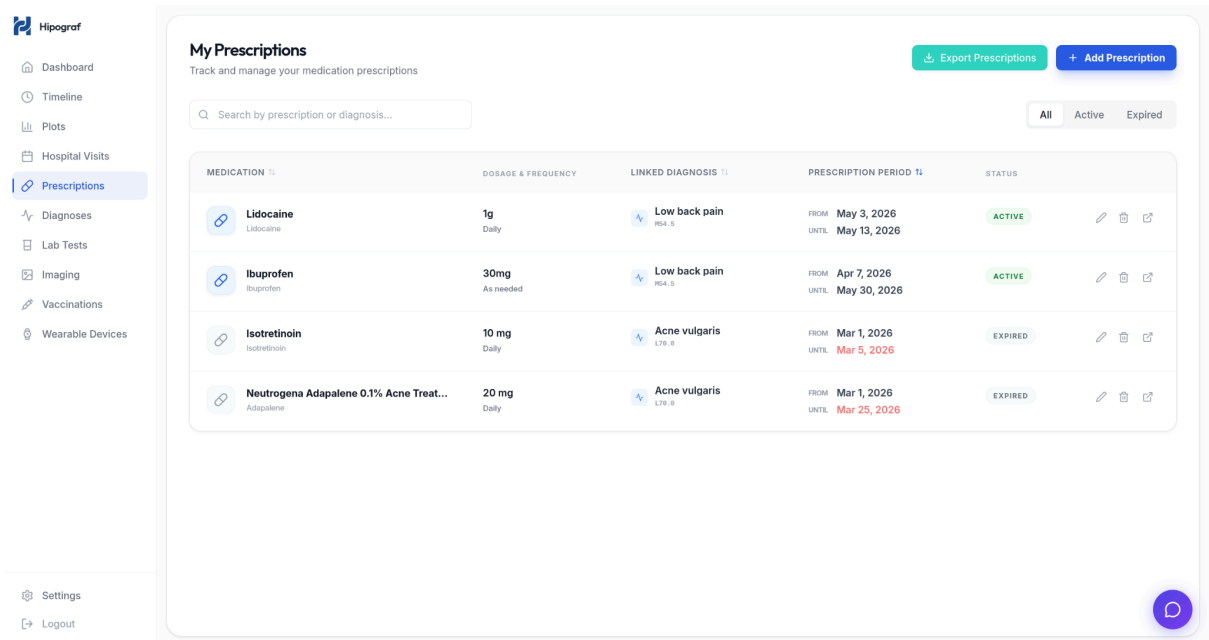
The screenshot shows the 'My Hospital Visits' dashboard. On the left is a sidebar with navigation options: Dashboard, Timeline, Plots, Hospital Visits (selected), Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices. The main area has a title 'My Hospital Visits' and a subtitle 'Track your hospital appointments and related history'. There are search filters for 'Show Diagnoses' and 'Search hospital, doctor, diagnosis...' and an '+ Add Visit' button. A table lists visits with columns for DATE, HOSPITAL, DOCTOR, DIAGNOSES, and PRESCRIPTIONS. The first visit is on May 18, 2026, at City Hospital, with Dr. Emily Chen as the doctor and Acne vulgaris as the diagnosis. The expanded view for this visit shows: VISIT DETAILS (City Hospital, Cardiology, Dr. Emily Chen, May 18th, 2026, Discharge Summary: "Patient discharged."); DIAGNOSES (L70.0 Acne vulgaris, MODERATE SEVERITY, Follow-up in 3 months, DERMATOLOGY); and LINKED PRESCRIPTIONS (Isotretinoin 10 mg + Daily, Adapalene 20 mg + Daily).

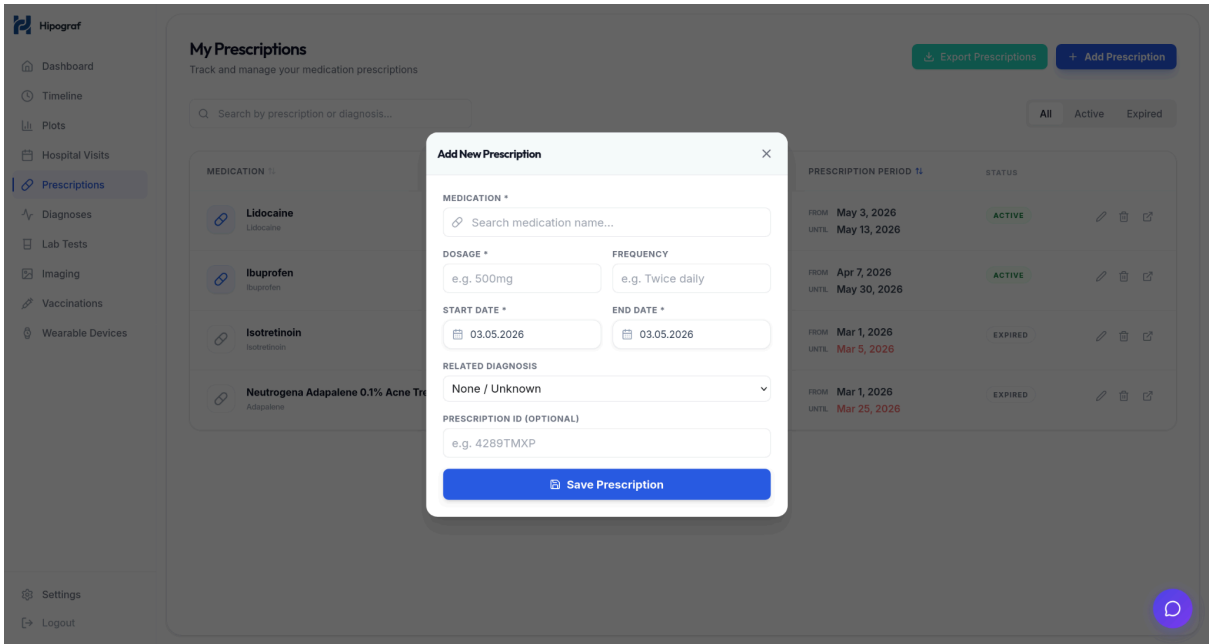
The screenshot shows the 'Edit Hospital Visit' modal form. The form fields are: HOSPITAL NAME (City Hospital), DEPARTMENT (Cardiology), DOCTOR NAME (Dr. Emily Chen), VISIT DATE (18.05.2026), ADMISSION DATE (11.05.2026), DISCHARGE DATE (27.05.2026), RELATED DIAGNOSES (checkboxes for Other disorders of refraction (Jun 2024), Low back pain (Jan 2024), Essential (primary) hypertension (Nov 2023)), and DISCHARGE SUMMARY (Patient discharged.). There is an 'Update Visit' button at the bottom.



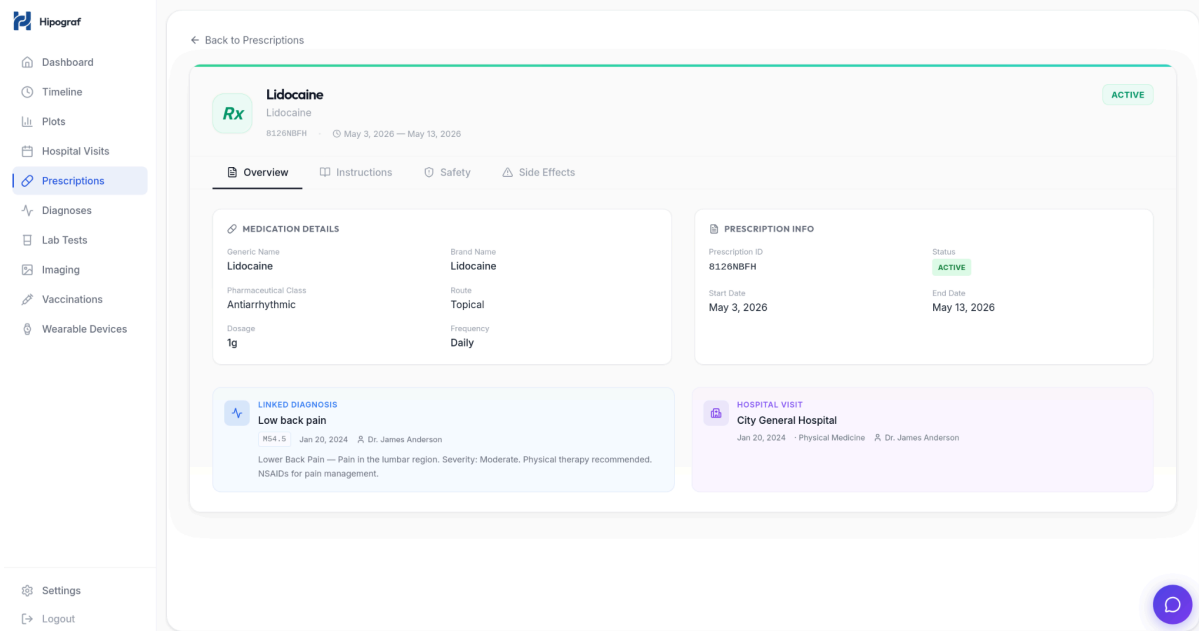
Prescriptions Page, available at /prescriptions














This page shows the prescriptions that the patient was prescribed, including the frequency they should take them at, the dosage, the frequency and the expected consumption periods.






Each prescription has an associated detail page (accessible by clicking on the prescription from the previous list) showing more information, including detailed usage instructions, safety precautions and potential side effects.







-  Hipograf
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 -  Prescriptions
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 -  Wearable Devices
-
-  Settings
 -  Logout

← Back to Prescriptions



Lidocaine
Lidocaine
8126NBFH · May 3, 2026 — May 13, 2026

ACTIVE

 Overview
 Instructions
 Safety
 Side Effects


INDICATIONS

Lidocaine Ointment 5% is indicated for production of anesthesia of accessible mucous membranes of the oropharynx. It is also useful as an anesthetic lubricant for intubation and for the temporary relief of pain associated with minor burns, including sunburn, abrasions of the skin, and insect bites.

DOSAGE & ADMINISTRATION





When Lidocaine Ointment 5% is used concomitantly with other products containing lidocaine, the total dose contributed by all formulations must be kept in mind. Adult: A single application should not exceed 5 g of Lidocaine Ointment 5%, containing 250 mg of lidocaine base (equivalent chemically to approximately 300 mg of lidocaine hydrochloride). This is roughly equivalent to squeezing a six inch length of ointment from the tube. In a 70 kg adult this dose equals mg/kg (mg/lb) lidocaine base. No more than one-half tube, approximately 17-20 g of ointment or 850-1000 mg lidocaine base, should be administered in any one day. Although the incidence of adverse effects with Lidocaine Ointment 5% is quite low, caution should be exercised, particularly when employing large amounts, since the incidence of adverse effects is directly proportional to the total dose of local anesthetic agent administered. Dosage for children: It is difficult to recommend a maximum dose of any drug for children since this varies as a function of age and weight. For children less than ten years who have a normal lean body mass and a normal lean body development, the maximum dose may be determined by the application of one of the standard pediatric drug formulas (e.g., Clark's rule). For example a child of five years weighing 50 lbs., the dose of lidocaine should not exceed 75-100 mg when calculated according to Clark's rule. In any case, the maximum amount of lidocaine administered should not exceed mg/kg (mg/lb) of body weight. Administration: For medical use, apply topically for adequate control of symptoms. The use of a sterile gauze pad is suggested for application to broken skin tissue. Apply to the tube prior to intubation. In dentistry, apply to previously dried oral mucosa. Subsequent removal of excess saliva with cotton rolls or saliva ejector minimizes dilution of the ointment, permits maximum penetration, and minimizes the possibility of swallowing the topical ointment. For use in connection with the insertion of new dentures, apply to all denture surfaces contacting mucosa. **IMPORTANT:** Patients should consult a dentist at intervals not exceeding 48 hours throughout the fitting period.

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Lidocaine
Lidocaine
8126NBFH · May 3, 2026 — May 13, 2026

ACTIVE

 Overview
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WARNINGS & PRECAUTIONS

EXCESSIVE DOSAGE, OR SHORT INTERVALS BETWEEN DOSES, CAN RESULT IN HIGH PLASMA LEVELS AND SERIOUS ADVERSE EFFECTS. PATIENTS SHOULD BE INSTRUCTED TO STRICTLY ADHERE TO THE RECOMMENDED DOSAGE AND ADMINISTRATION GUIDELINES AS SET FORTH IN THIS PACKAGE INSERT. THE MANAGEMENT OF SERIOUS ADVERSE REACTIONS MAY REQUIRE THE USE OF RESUSCITATIVE EQUIPMENT, OXYGEN, AND OTHER RESUSCITATIVE DRUGS. Lidocaine Ointment 5% should be used with extreme caution in the presence of sepsis or severely traumatized mucosa in the area of application, since under such conditions there is the potential for rapid systemic absorption. Methemoglobinemia: Cases of methemoglobinemia have been reported in association with local anesthetic use. Although all patients are at risk for methemoglobinemia, patients with glucose-6-phosphate dehydrogenase deficiency, congenital or idiopathic methemoglobinemia, cardiac or pulmonary compromise, infants under 6 months of age, and concurrent exposure to oxidizing agents or their metabolites are more susceptible to developing clinical manifestations of the condition. If local anesthetics must be used in these patients, close monitoring for symptoms and signs of methemoglobinemia is recommended. Signs of methemoglobinemia may occur immediately or may be delayed some hours after exposure, and are characterized by a cyanotic skin discoloration and/or abnormal coloration of the blood. Methemoglobin levels may continue to rise; therefore, immediate treatment is required to avert more serious central nervous system (CNS) and cardiovascular adverse effects, including seizures, coma, arrhythmias, and death. Discontinue Bicillin C-R and any other oxidizing agents. Depending on the severity of the signs and symptoms, patients may respond to supportive care, i.e., oxygen therapy, hydration. A more severe clinical presentation may require treatment with methylene blue, exchange transfusion, or hyperbaric oxygen.

CONTRAINDICATIONS

Lidocaine is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type or to other components of Lidocaine Ointment 5%.

DRUG INTERACTIONS

- Hipograf
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- Timeline
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- Hospital Visits
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Lidocaine
Lidocaine
8126NBFH · May 3, 2026 — May 13, 2026

Overview Instructions Safety **Side Effects**

ADVERSE REACTIONS

Adverse experiences following the administration of lidocaine are similar in nature to those observed with other amide local anesthetic agents. These adverse experiences are, in general, dose-related and may result from high plasma levels caused by excessive dosage or rapid absorption, or may result from a hypersensitivity, idiosyncrasy or diminished tolerance on the part of the patient. Serious adverse experiences are generally systemic in nature. The following types are those most commonly reported: Central nervous system: CNS manifestations are excitatory and/or depressant and may be characterized by lightheadedness, nervousness, apprehension, euphoria, confusion, dizziness, drowsiness, tinnitus, blurred or double vision, vomiting, sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, respiratory depression and arrest. The excitatory manifestations may be very brief or may not occur at all, in which case the first manifestation of toxicity may be drowsiness merging into unconsciousness and respiratory arrest. Drowsiness following the administration of lidocaine is usually an early sign of a high blood level of the drug and may occur as a consequence of rapid absorption. Cardiovascular system: Cardiovascular manifestations are usually depressant and are characterized by bradycardia, hypotension, and cardiovascular collapse, which may lead to cardiac arrest. Allergic: Allergic reactions are characterized by cutaneous lesions, urticaria, edema or anaphylactoid reactions. Allergic reactions may occur as a result of sensitivity either to the local anesthetic agent or to other components in the formulation. Allergic reactions as a result of sensitivity to lidocaine are extremely rare and, if they occur, should be managed by conventional means. The detection of sensitivity by skin testing is of doubtful value.

Settings Logout

Diagnoses Page, available at /diagnoses

This page shows all the past diagnoses of the patient.

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- Wearable Devices

- Settings
- Logout

My Diagnoses
View a comprehensive history of your diagnoses and chronic conditions

Export Diagnosis History Add Diagnosis

Search by diagnosis, department, prescripti Start date End date

LAST 1 MONTH LAST 3 MONTHS LAST 6 MONTHS
LAST 1 YEAR LAST 2 YEARS LAST 5 YEARS All Mild Moderate Severe

DATE	ICD CODE	DIAGNOSIS	DEPARTMENT	ATTENDING DOCTOR
Aug 23, 2025 SATURDAY	L24.9	Irritant contact dermatitis, unspecified cause Inflammation of the skin caused by direct contact with an irritating...	Dermatology	Dr. John Doe CITY GENERAL HOSPITAL
Jul 25, 2025 FRIDAY	L79.8	Acne vulgaris A skin condition that occurs when hair follicles become clogged with...	Dermatology	Dr. John Doe CITY GENERAL HOSPITAL
Jun 15, 2024 SATURDAY	H52.8	Other disorders of refraction Disorders of refraction and accommodation of the eye, including...	Ophthalmology	Dr. Emily Chen CITY GENERAL HOSPITAL
Jan 20, 2024 SATURDAY	M54.8	Low back pain Pain in the lower back region that can result from strain, injury, or...	Physical Medicine	Dr. James Anderson CITY GENERAL HOSPITAL
Nov 20, 2023 MONDAY	I10	Essential (primary) hypertension A condition in which the force of the blood against the artery walls is...	Cardiology	Dr. Michael Roberts CITY GENERAL HOSPITAL
Aug 10, 2022 WEDNESDAY	E11	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC) A chronic condition that affects the way the body processes blood...	Endocrinology	Dr. Sarah Williams CITY GENERAL HOSPITAL
Jul 12, 2021 MONDAY	G43	Migraine without aura, not intractable, with status migrainosus A neurological condition characterized by intense, debilitating	Neurology	Dr. Unknown CITY GENERAL HOSPITAL

Clicking on a diagnosis brings up a detailed view of the diagnosis showing notes and descriptions of the condition, the establishment where it was diagnosed and any linked prescriptions.

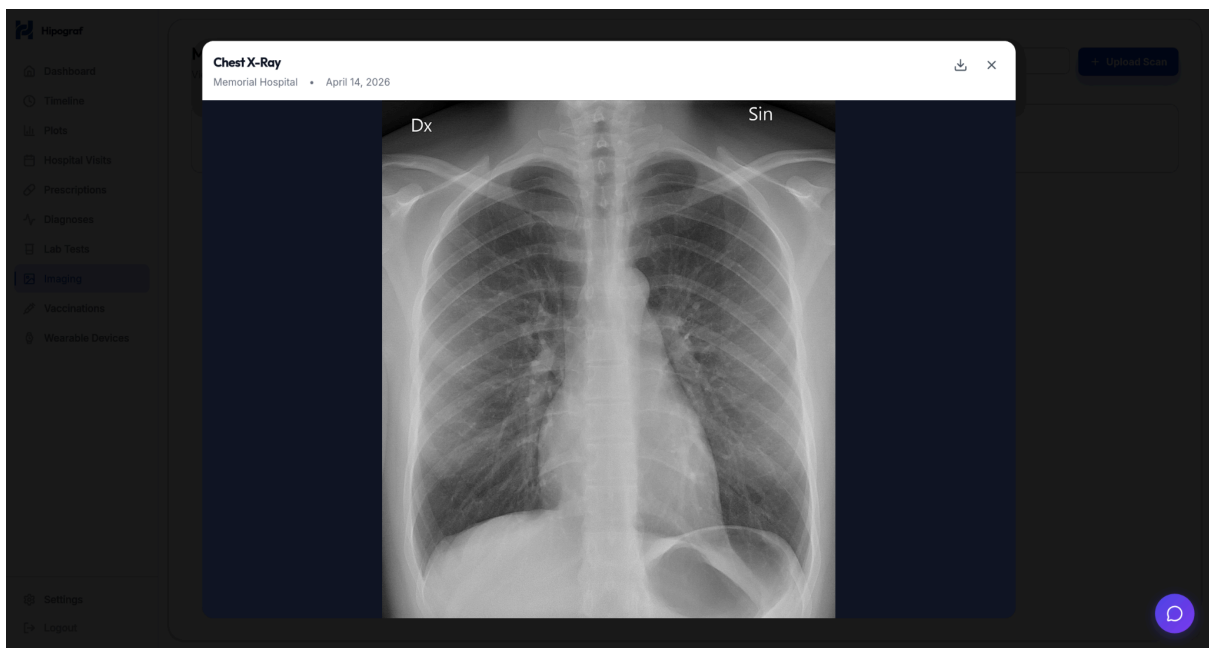
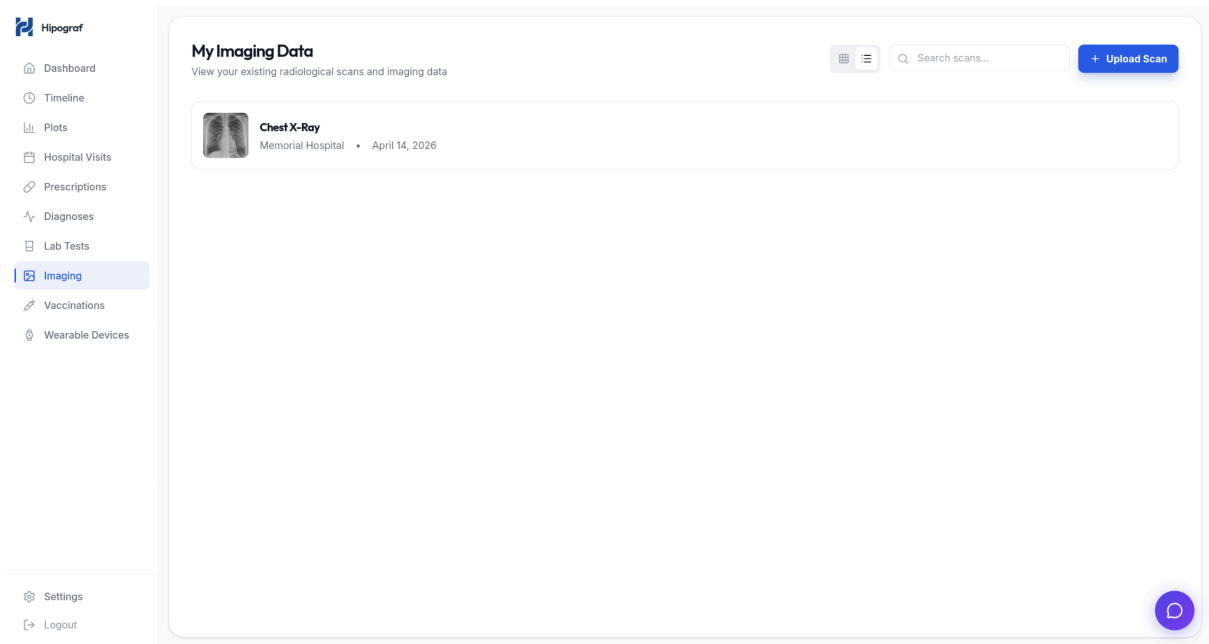
The screenshot shows the Hipograf interface with a sidebar on the left containing navigation options: Dashboard, Timeline, Plots, Hospital Visits, Prescriptions, Diagnoses (selected), Lab Tests, Imaging, Vaccinations, and Wearable Devices. The main content area displays a table of diagnoses with columns for DATE, ICD CODE, DIAGNOSIS, DEPARTMENT, and ATTENDING DOCTOR. The table lists three entries: Aug 23, 2025 (L24.9) for Irritant contact dermatitis, unspecified cause; Jul 25, 2025 (L70.9) for Acne vulgaris; and Jun 15, 2024 (H52.8) for Other disorders of refraction. A detailed view for the first entry is shown below the table, containing three panels: CLINICAL DETAILS (with medical description, body region, severity, symptoms, and treatments), PROVIDER INFORMATION (diagnosing physician, hospital, and date), and LINKED MEDICATIONS (Isotretinoin and Adapalene).

Lab Tests Page, available at /tests

The screenshot shows the Hipograf Lab Tests page. The sidebar on the left is the same as in the previous screenshot, with 'Lab Tests' selected. The main content area features a search bar, filters for 'FROM DATE' and 'TO DATE', and an 'Upload Test' button. Below these are tabs for 'All Results', 'Normal Results', 'Unusual Results', and 'Only Out-of-Range'. The lab tests are listed in a table with columns for date, test name, and result status. The table shows seven entries: Blood Work (OCR) on APR 2026 (1 Normal), Blood Work (OCR) on FEB 2026 (47 Normal, 1 Out of Reference Range), Full Blood Count (Hemogram) on JUL 2025 (4 Normal), Biochemistry on JUN 2025 (1 Normal, 1 Out of Reference Range), Blood Work (OCR) on OCT 2024 (24 Normal, 4 Out of Reference Range), General Panel on AUG 2024 (3 Normal), and Comprehensive Metabolic Panel on JUL 2024 (5 Normal, 3 Out of Reference Range).

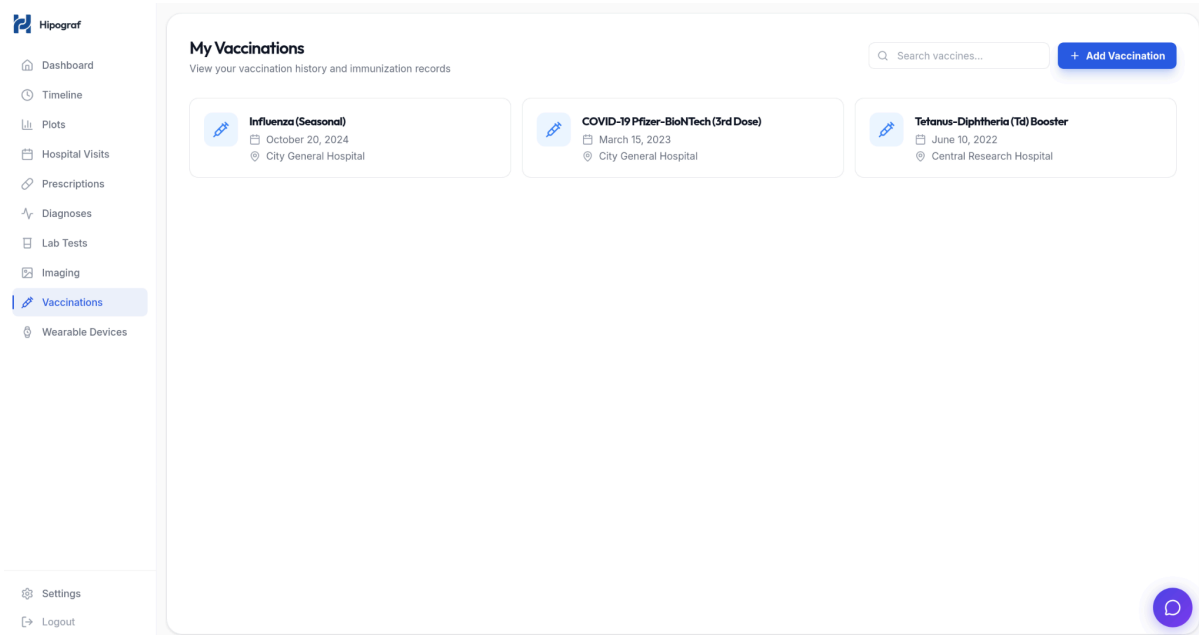
Imaging Data Page, available at /images

The Imaging Data page allows the user to upload and view medical images that are tracked by Hipograf.



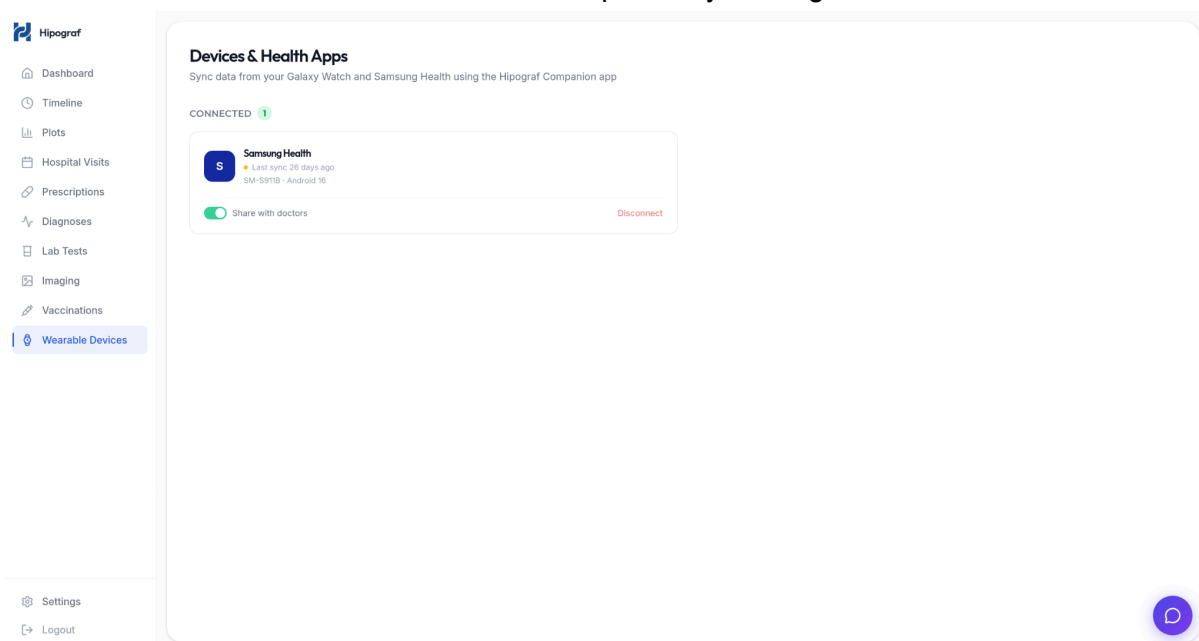
Vaccinations Page, available at /vaccinations

The Vaccinations page allows the user to upload/view medical images they have.



Wearable Devices Page, available at /devices

The Wearable Devices page showed the available health data recording devices the user connected to their account. The user is able to toggle whether practitioners are able to see their medical data or not by clicking the button beneath each device item. The user is also able to disconnect the device from the current profile by clicking the "Disconnect" button.



If the user has not connected a device before to their account, they are prompted to install the Hipograf Companion App on their Android phone. This application interfaces with the Samsung Health API to provide the user with various medical readings.

The screenshot shows the Hipograf user interface. On the left is a sidebar with navigation options: Dashboard, Timeline, Plots, Hospital Visits, Prescriptions, Diagnoses, Lab Tests, Imaging, Vaccinations, and Wearable Devices (highlighted). The main content area is titled 'Devices & Health Apps' and includes a sub-header 'Sync data from your Galaxy Watch and Samsung Health using the Hipograf Companion app'. A blue banner contains the heading 'Connect Samsung Health' and the text: 'Hipograf reads your Galaxy Watch and Samsung Health data through Android Health Connect. Install the companion app on your Android phone and your data will sync automatically.' Below this are three steps: STEP 1 'Install the companion app' (Open the Hipograf Companion app on your Android phone.), STEP 2 'Grant permissions' (Sign in with your Hipograf account and allow Health Connect read access for the data you want to share.), and STEP 3 'Tap Sync' (Tap Sync Now in the companion app. Your data will appear here within a few seconds.). A tip at the bottom states: 'Tip: If your data isn't showing up, open Samsung Health on your phone, go to Settings → Health Connect, and make sure the categories you want (steps, heart rate, sleep, etc.) are enabled.' At the bottom left of the sidebar, there are links for 'Return To Dashbo...' and 'Logout'.

Practitioner Pages

Practitioner Dashboard Page, available at / (base path)

When logging in, practitioners have a separate dashboard that shows them the number of patients that they are responsible for and whether they have any appointments in the current calendar week.

The screenshot displays the Hipograf Practitioner Dashboard for Good Evening, Uzman Prof. Dr. Emily Chen. The dashboard is titled "Good Evening, Uzman Prof. Dr. Emily Chen" and includes the subtitle "Eye Conditions - Ophthalmology - City General Hospital".

The dashboard features a left sidebar with the following navigation items:

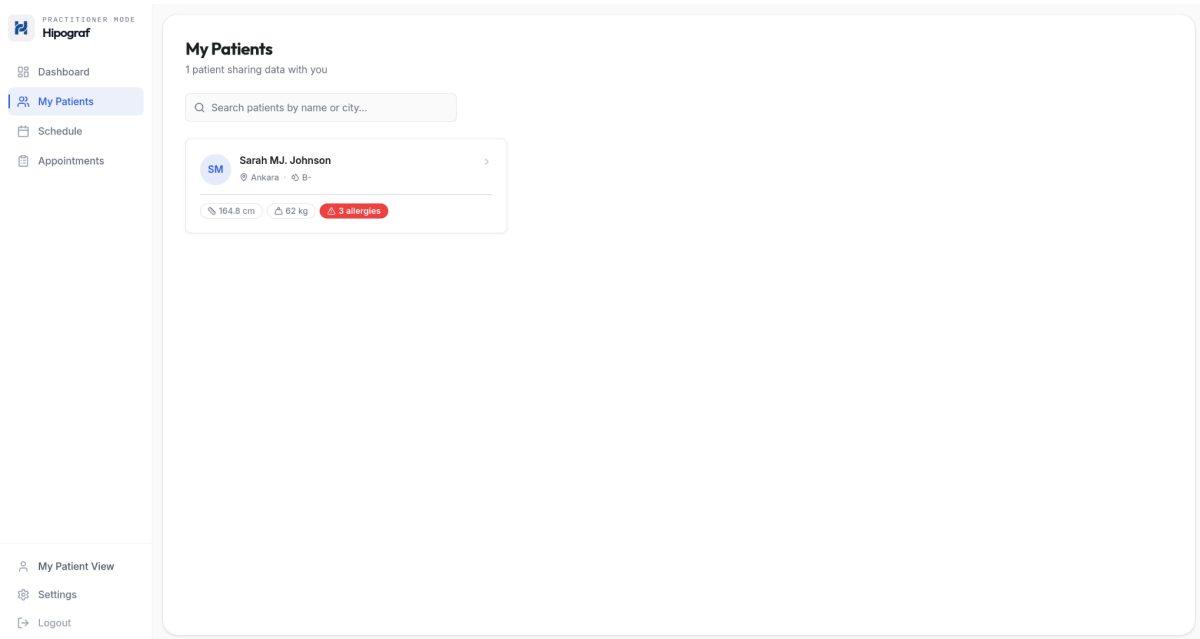
- PRACTITIONER MODE
- Hipograf
- Dashboard (selected)
- My Patients
- Schedule
- Appointments
- My Patient View
- Settings
- Logout

The main content area displays the following information:

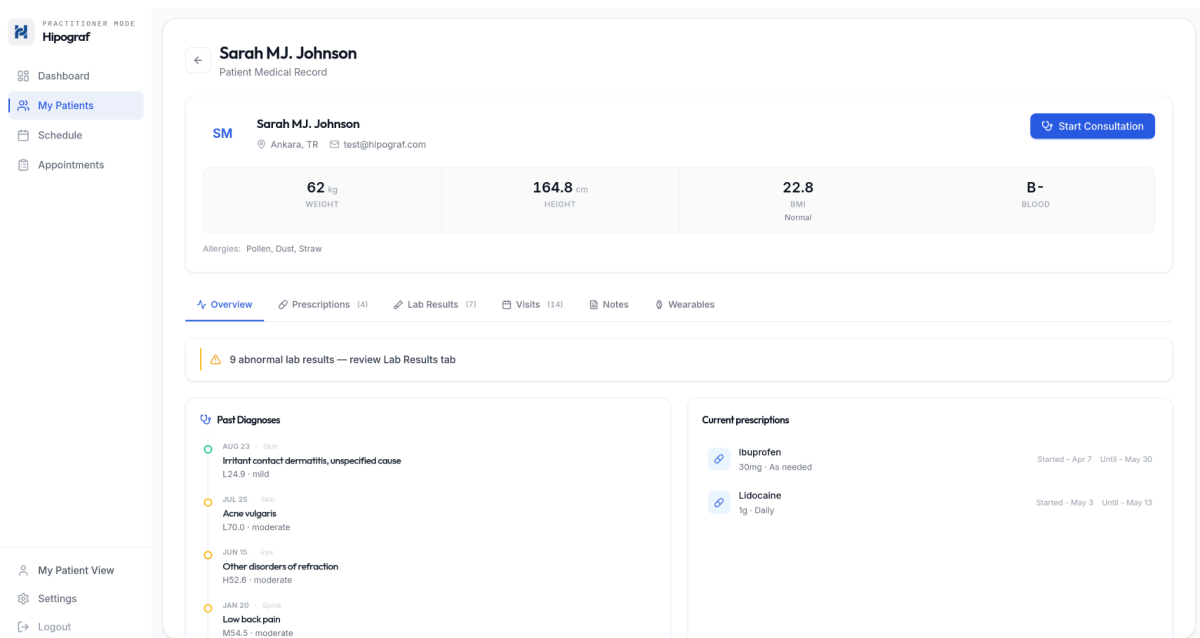
- 1** TOTAL PATIENTS
- APPOINTMENTS THIS WEEK
- Recent Patients** (with a [View All Patients](#) button)
- Recent Patient: **SM Sarah M.J. Johnson** (Ankara - B)

My Patients Page, available at /patients

Practitioners have a page where they can see every patient that is assigned to them.



Clicking on a patient brings them to a page that shows basic detailed information about the patient alongside an option to “Start Consultation” in the top right, which leads them to the Patient View, where they can see all the ordinary patient pages and conduct the operations described in the Patient Pages section using the data of the patient they have selected.



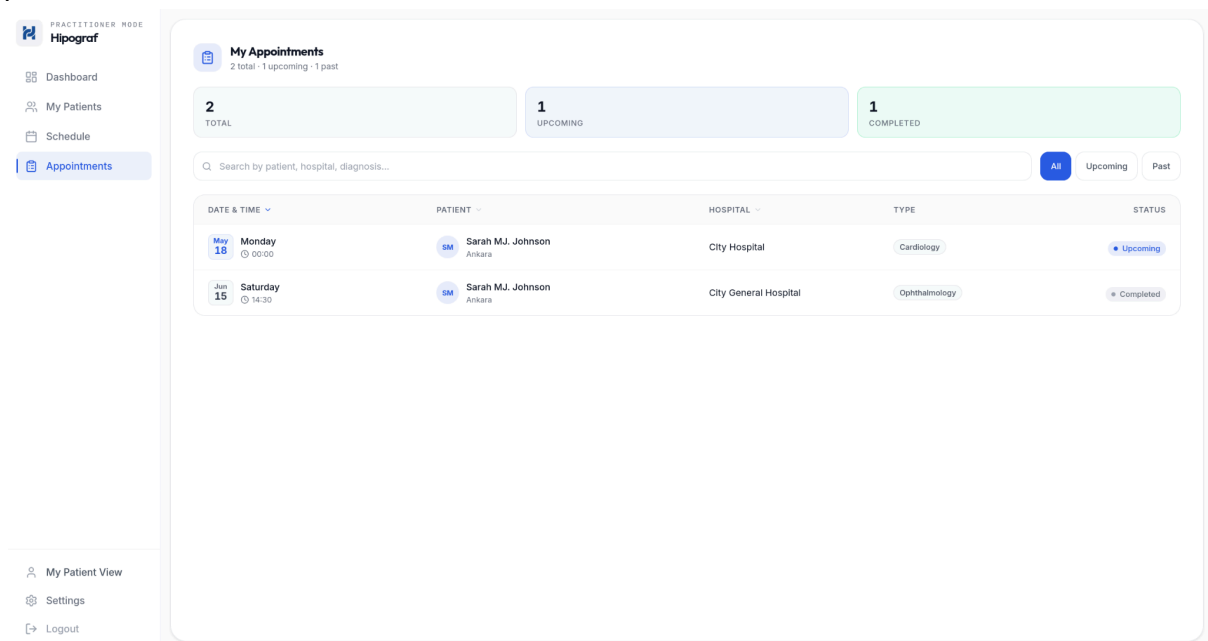
Schedule Page, available at /schedule

On this page, the practitioner can see their weekly schedule and whether they have any appointments this week.



Appointments Page, available at /appointments

On this page, the practitioner can look at their past and upcoming appointments with their patients.



My Patient View

A practitioner account is also able to view their own patient data using the “My Patient View”

- Dashboard
- Timeline
- Plots
- Hospital Visits
- Prescriptions
- Diagnoses
- Lab Tests
- Imaging
- Vaccinations
- Wearable Devices

Viewing Your Data

SUNDAY, MAY 3

Good Evening, Prof. Dr. Emily Chen

ACTIVE CONDITIONS



Studio X-Ray Text

- Return To Dashbo...
- Logout

Timeline Today

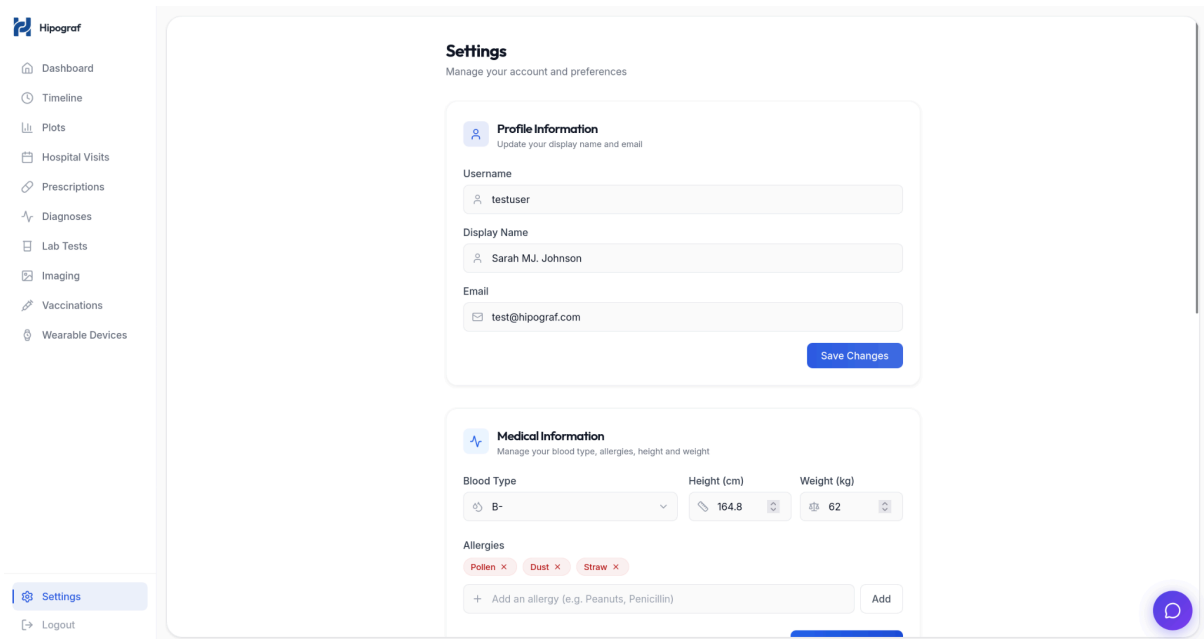
Appointments Labs Prescriptions Vaccinations Imaging Day Week 2 Weeks Month 4 Months

12:00 May 1 12:00 May 2 12:00 May 3 12:00 Today May 4 12:00 May 5 12:00 May 6 12:00 May 7

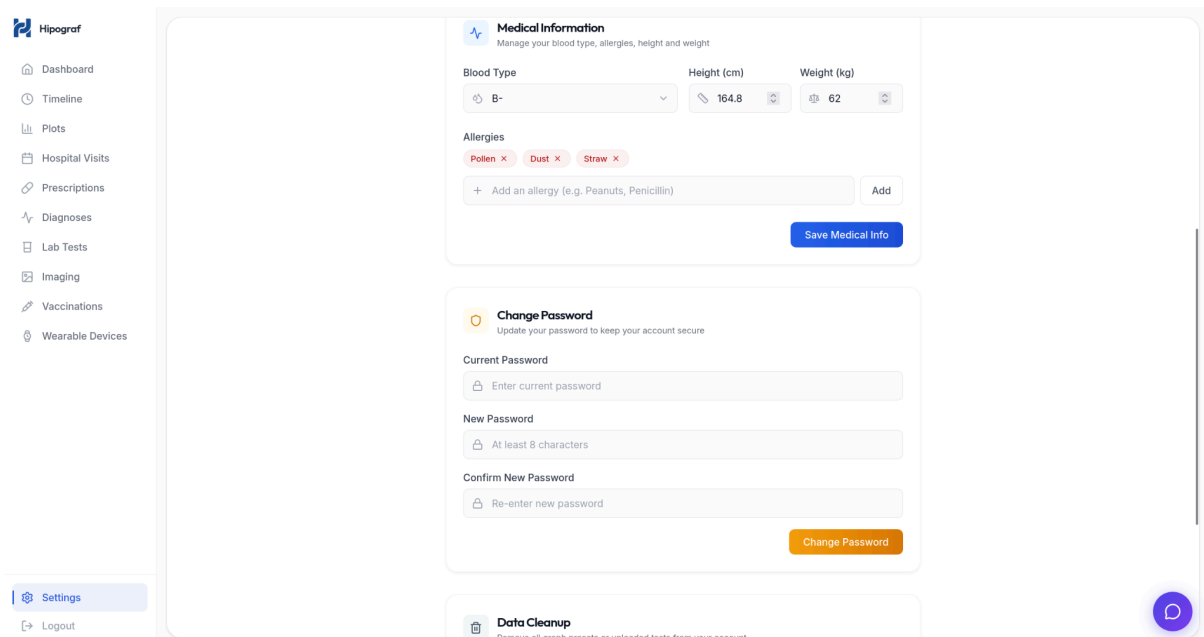
Shared Pages

Settings Page, available at /settings

The settings page allows the user to change their profile information (username, display name, email) associated with the account.



The user is also able to change medical information such as blood type, height, weight, and the allergies they have.



The settings page also allows the user to change their password. If they wish to delete certain parts of their profile, or the entirety of it, this page allows them to do so by pressing the associated buttons.

