



For refugee camps and disaster relief organisations

UNHCR · RED CROSS · NGOS · DISASTER RESPONSE

How to know who someone is where there are no papers and no power.



Tens of thousands of refugees with no ID or medical record, an earthquake zone with no communication. One wrist band carries a name, blood type, vaccinations and chronic conditions, readable on any relief organisation's phone.

Locate

The blue cross on the body

Tap

Back of a smartphone, 1 second

Read

Blood type · allergies · medication · contacts

SCAN THE PATCH. SAVE A LIFE.

RadPatch™ · Personal Emergency Information System Patch

No battery · No internet · 1 second
26 languages · Waterproof



01 · WHAT RADPATCH IS

A patch the size of a fingernail speaks for you.

RadPatch™ is a personal emergency information system patch no bigger than a fingernail. Inside it you keep your blood type, allergies, current medication, diabetes emergency information and emergency contacts. When an accident or sudden illness leaves you unable to speak, anyone nearby holds a smartphone to the patch for one second and the information appears on the screen. No battery, no internet, no login. The information is encrypted inside the patch, not on a hospital server, and only you can change it with your PIN.

Three moves and it is done

01

Locate

Find the RadPatch on the helmet, watch strap, collar, bag or phone case. The blue cross is designed to be seen.

02

Tap

Hold the back of a smartphone (Android 8.0 or newer, or a recent iPhone) to the patch for one second. With WaveMed, or the responders' vWaveMed app, the screen opens by itself.

03

Read

Blood type, allergies, medication, diabetes emergency information and contacts appear in the reader's own language. 26 languages switch automatically, so it works abroad.

What goes inside the patch



- Name · date of birth · sex
- Blood type
- Allergies (drugs, food, insect stings)
- Current medication and doses
- Diabetes emergency information
- Emergency contacts (family, carer)
- Doctor · insurance (optional)

You choose what goes in. Only the information you want is stored.

Why a patch, not paper or an app alone

Needs no power

A passive, battery-free design. Nothing to charge, and what you store stays there until you erase it.

Survives water, sweat and the washing machine

A silicone body with a sealed chip: two layers of waterproofing. Pools, sea water, showers and the washing machine are all fine.

Readable without internet

In a mountain with no signal, a building in a blackout or a disaster zone, one smartphone is enough. If every server is down, the information is still on your body.

Your information stays yours

Stored encrypted, changed only with your four-digit PIN. Readers can only read, and other apps cannot open it.

WHY IT MATTERS · FOR REFUGEE CAMPS AND DISASTER RELIEF ORGANISATIONS

There are no papers in refugee camps and disaster zones. Names are asked in languages nobody shares, vaccination records are gone, power and communication are down. Every organisation makes its own list and the same person is registered three times. The RadPatch wrist band reads without battery or internet, shows in 26 languages, and any organisation's phone sees the same information. The Desktop Writer registers hundreds a day.

02 · IN MOMENTS LIKE THESE

48 hours after the earthquake, a field clinic

Day 1	No communication in the disaster zone. A relief team issues wrist bands to 300 displaced people with the Desktop Writer: name, blood type, chronic conditions, family number.
Day 3	Another organisation's medical team arrives. Reading a patient's band shows diabetes, insulin needed and the treatment already given. Duplicate registration disappears.
Two weeks	The receiving hospital reads the same band. When communication returns, the app's location sharing reunites scattered families.

How it is used

Camp registration

Name, date of birth, blood type, vaccinations and chronic conditions on the wrist band. No duplicate registration between organisations.

Vaccination campaigns

Dates and vaccines on the band. They remain when the paper card is wet or lost.

Child protection

An unaccompanied child's name and the camp officer's number, read in 26 languages.

Mass-casualty triage

Triage results and treatment given are added to the band; the next team takes over.

Separated families

Family numbers and the app's location sharing. Connected as soon as communication returns.

No power, no network

Passive, no internet. No generator and no server needed.

Where it goes



Refugee camp



Disaster response



Earthquake zone



Emergency relief

Iron-on, hair-straightener or sticker: three ways to attach it. Watch straps, collars, helmets, bags, shoes, phone cases, even a pet collar. Attach it once and it can be read anywhere.

Two apps, both free

WaveMed — for the owner and carer

Enter your information, write it to the patch and update it with your PIN. Includes health logs, a document folder and nearby hospital search.

vWaveMed — for paramedics, emergency responders and fire crews

Used by paramedics, emergency staff, fire crews, hospitals, and also family and neighbours. Tap to read only; nothing can be changed. Shown in the reader's language.

Even in a disaster like the Nepal earthquake

When cell towers fall and the power goes out, hospital servers and the cloud are unreachable. RadPatch is read with a single rescuer's phone. A foreign rescue team sees your blood type and allergies in their own language. Where there is no communication, the information on your body is the only information there is.

03 · NO PATCH NEEDED. THE APP ALONE

When the papers are gone, the record is on the phone.

The free WaveMed app, used by the people relief teams serve, keeps surviving papers and vaccination records as photos, no patch needed. Emergency details in 26 languages and location sharing connect scattered families and unfamiliar countries.

KEYWORDS FOR THIS AUDIENCE

Surviving papers kept as photos

Vaccines & certificates kept

Baby vaccines · family members

mg/dL and mmol/L together

Medicine Finder in 26 languages

Location sharing on weak signal

Emergency info in 26 languages

01 When there are no papers

“ID and records lost on the way: is there anywhere left to write down your blood type and medication?”

MY HEALTH INFO · DOCUMENTS

Blood type, allergies, medications, diabetes emergency information and emergency contacts, written down once. Scans and reports go in as photos or PDFs, ready to show the moment somebody asks.

“The few papers you managed to carry out: have you photographed them before they get wet or lost?”

DOCUMENTS · IMPORT

Anything handed to you is yours the moment you photograph it. A PDF from the hospital imports as it is. Certified originals still come from the hospital, but you never queue again for paper you already held once.

“The paper vaccination card is gone. Do you remember when you were vaccinated, and against what?”

VACCINATION RECORD

Record each vaccine and its date, and keep the certificate you were issued alongside it. The day a border or an employer asks for proof, you are not phoning a clinic again.

“A baby born in the camp: will you be able to say which vaccine they had, and when?”

FAMILY · IMMUNISATION

Each family member gets their own record. Keep the vaccination history together with the certificates themselves, and print a report in your child's name when the school asks for one.

02 Before the medicine runs out

“When the days blur together in a camp, can you be sure you took this morning's pills?”

MEDICATION SCHEDULE · COMPLETED

Name, dose, time and times per day become a dated schedule. Each dose is marked Completed as it is taken, so a missed one stands out, with reminders and calendar sync.

“Cross a border and blood sugar is measured differently. Can you show your numbers their way?”

BLOOD SUGAR LOG

Enter it once and both units appear together: 120 mg/dL (6.7 mmol/L). Nothing to convert. Calendar, 30-day trend and PDF work the same either way.

“In a country whose language you do not speak, how would you explain your medicine to a pharmacist?”

MEDICINE FINDER

A thousand of the world's most-used medicines, carried in 26 languages. Switch the language inside the screen and the same medicine appears in theirs. When words fail, hand over the phone.

03 · NO PATCH NEEDED. THE APP ALONE · 2

03 Scattered families

“Your children's and parents' records too: can the one phone you still have keep them apart?”

MY FAMILY · SELECT MEMBER

Add and select members on the Healthcare Management home screen, and each person keeps their own blood sugar, blood pressure, medication and vaccination records.

“Where no address or sign is left standing, how do you tell scattered family where you are?”

MAP · SATELLITE · SHARE

Switch to satellite and the buildings and terrain are simply there. GPS holds without a signal, a map you have already looked at is kept, and coordinates and a link still send on a weak connection.

“Newly arrived in a city, can you tell how many metres away an open pharmacy or emergency room is?”

MAP · FIND CARE

A 300 m radius is drawn around where you stand, and hospitals, clinics and pharmacies are found out to 2.5 km and listed nearest first, with routes and travel time.

04 When you cannot speak

“If you collapsed where nobody shares your language, could your emergency details be read in theirs?”

EMERGENCY INFO · REPORT LANGUAGE

Change the app's language and the emergency screen and the report follow, in 26 languages. Anything chosen from a list comes out translated; notes you typed yourself stay as you wrote them.

“Exhausted, hurt and unable to speak: who tells them your blood type and your allergies?”

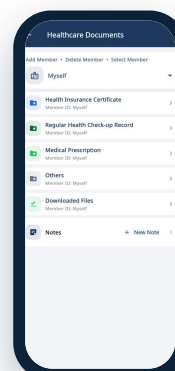
EMERGENCY INFO

The emergency screen opens without a lock: blood type, allergies, medications, diabetes emergency information and next of kin on one page. This is the point where a patch starts to matter.

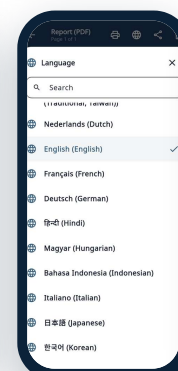
NEXT — OPTIONAL

The patch is for the moment you cannot speak for yourself.

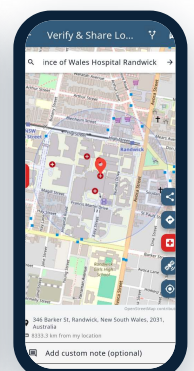
Use the app for a while and one problem is left over: who opens your record when you are unconscious, or when your phone is not with you. RadPatch solves that one thing. Whatever you put in the app today carries straight across the day you add a patch.



Healthcare documents



Emergency info



Map

04 · ECOSYSTEM · HOW IT IS MADE

Everything connects around one patch.

RadPatch is never used alone. The owner's app, the responders' app, the desktop that organisations use for bulk registration, the ride call that gets you to hospital, the wallet-sized RadCard and the cloud all form one system around a single patch. There are 120 scenarios, and one solution.



120 scenarios, one solution — WaveMed Magazine Special Issue 03, "The Technology Solution"

WaveMed — for the general population

Enter your own and your family's emergency information, write it to the patch, and keep health logs and documents.

Emergency Ride Call

Uber, Kakao T, Bolt, Grab and the other ride services of that country, straight to the nearest hospital.

vWaveMed — for paramedics and emergency responders

One-second read at the scene. Read-only, nothing can be changed, shown in the reader's language.

RadPatch · RadCard

A patch worn on the body and a card carried in the wallet. Same data format, so the same apps read either.

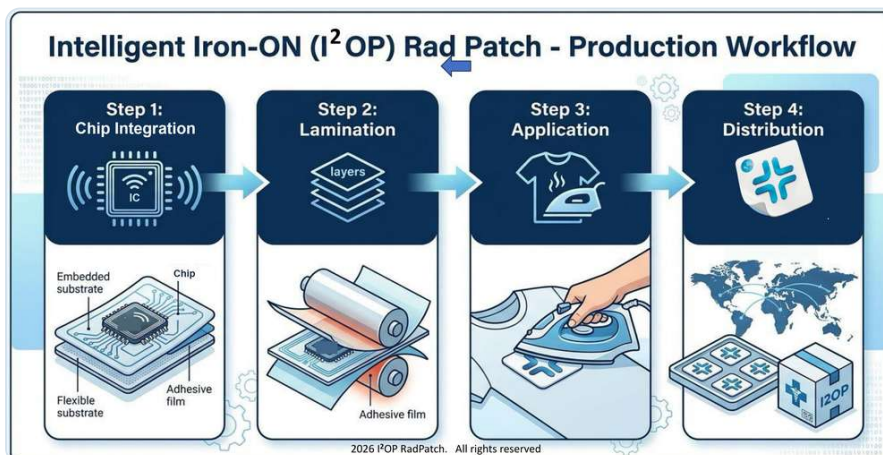
WaveMed Desktop Intelligent Manager

Hospitals, organisations and groups register hundreds of people in list order with a reader. The centre of the hospital supply model.

Path A · Path B

Two supply paths — Path A: individuals register with the app · Path B: organisations issue in bulk with the desktop

Intelligent Iron-ON (I²OP) production workflow



1 · Chip integration

The chip and antenna are embedded in a flexible substrate and covered with adhesive film.

2 · Lamination

Several layers are pressed with heat into one thin patch.

3 · Application

Iron, hair straightener or sticker attaches it to clothing, gear and bags.

4 · Distribution

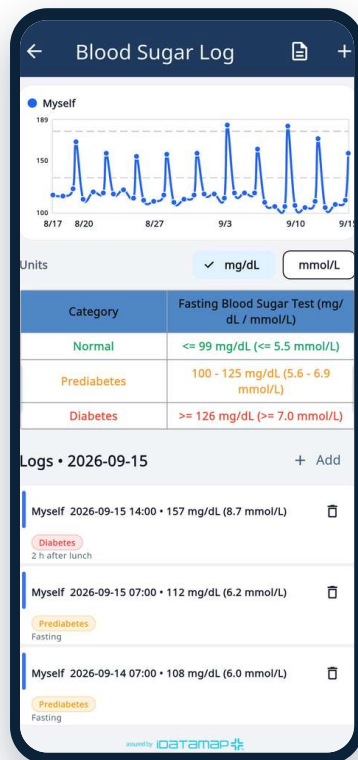
Only genuine, certified patches can be written by the apps. Supplied to partners worldwide.

05 · HEALTH MANAGEMENT IN THE APP



Numbers kept as records. Trends shown as graphs.

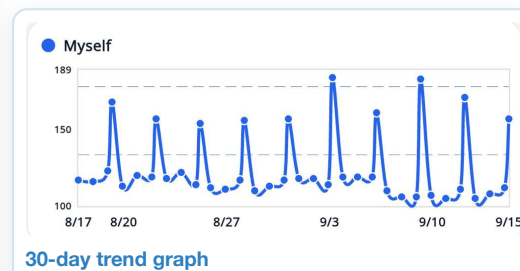
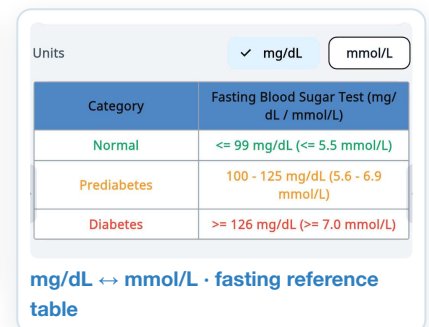
Blood sugar, blood pressure, medication, supplements and vaccinations. Log them by date and the app builds the calendar and a 30-day trend graph, ready to export as a PDF. No patch and no account needed to start today.



01

Blood sugar: a 30-day trend in both units

Each fasting or after-meal reading lands straight on the 30-day trend graph. Enter it once and mg/dL and mmol/L appear together, with the fasting reference table (normal, prediabetes, diabetes) on the same screen.



mg/dL ↔ mmol/L together

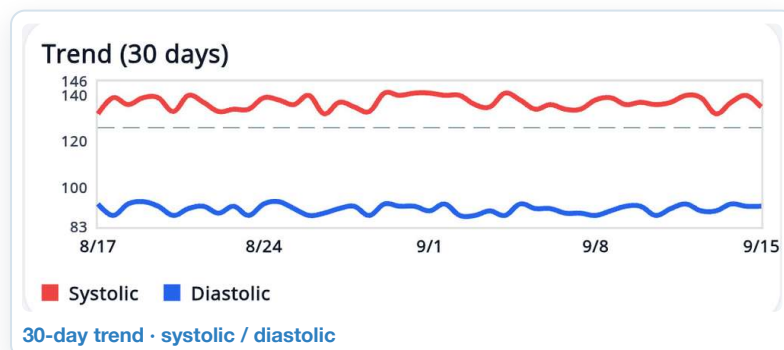
Fasting · 2 h after a meal

Calendar · PDF export

02

Blood pressure and heart rate at a glance

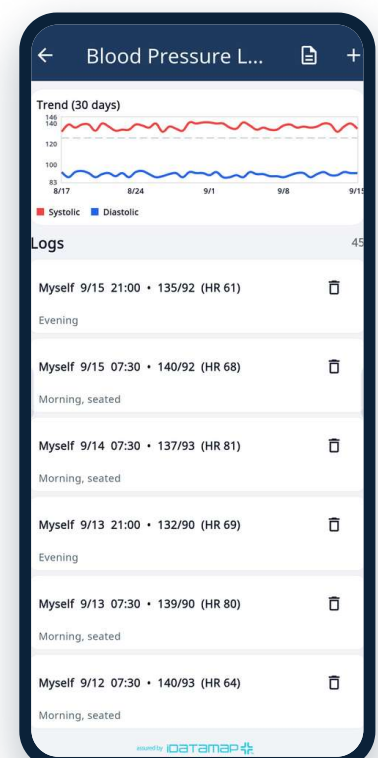
Systolic and diastolic pressure draw side by side as a 30-day trend. Every entry keeps the heart rate (HR) and a note such as "morning, seated" or "evening", so you know how each reading was taken.



Systolic · diastolic 30-day trend

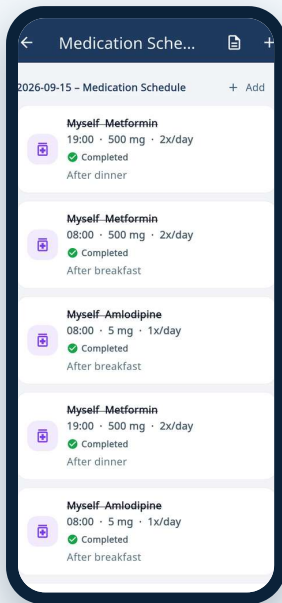
Heart rate on every entry

Notes on how it was measured



05 · HEALTH MANAGEMENT IN THE APP · 2

Medication, supplements, vaccines, and one dashboard.



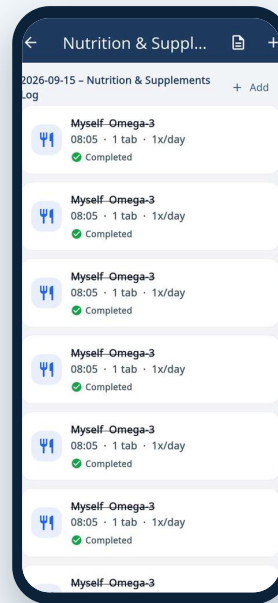
03

**Medication schedule:
taken, and recorded**

Name, dose, time and times per day become a dated schedule. Each dose is marked Completed as it is taken, so a missed one stands out, with reminders and calendar sync.

Completed marks

Reminders · calendar



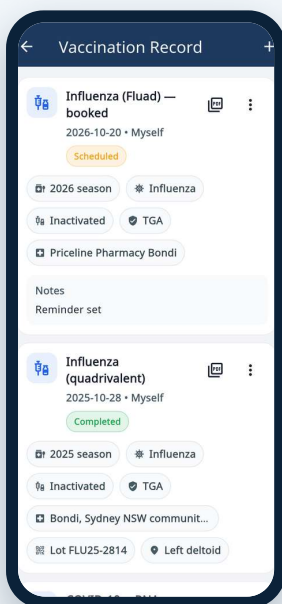
04

**Nutrition &
supplements: what,
and how much**

Product, dose, time of day and times per day, logged by date, with a 30-day trend and a PDF. Supplements and prescriptions can be seen as one list.

Logged by date

30-day trend · PDF



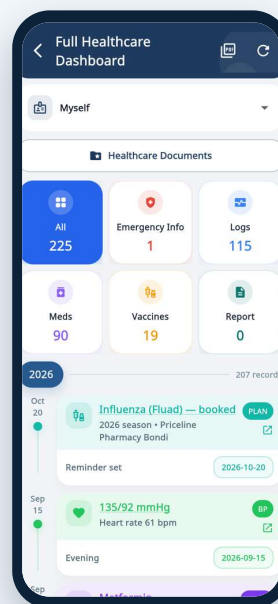
05

**Vaccination record, for
the day proof is
needed**

Vaccine, date, dose, type, where it was given, lot number and injection site are kept as one card, and each record exports as a PDF.

Lot number · site

PDF per record



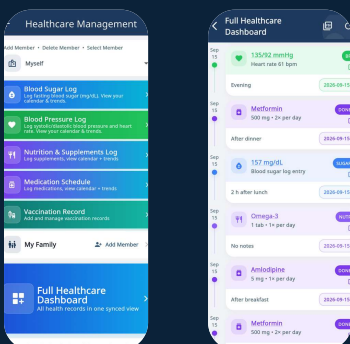
06

**Full Healthcare
Dashboard**

Blood sugar, blood pressure, medication, supplements, vaccines and emergency info join one dated timeline. Counts by type sit up front, Healthcare Documents is one tap away, and the view exports as a PDF.

One timeline

Healthcare Documents · PDF



WAVEMED

One family member at a time

On the Healthcare Management home screen, select yourself or a family member and keep each person's records apart.

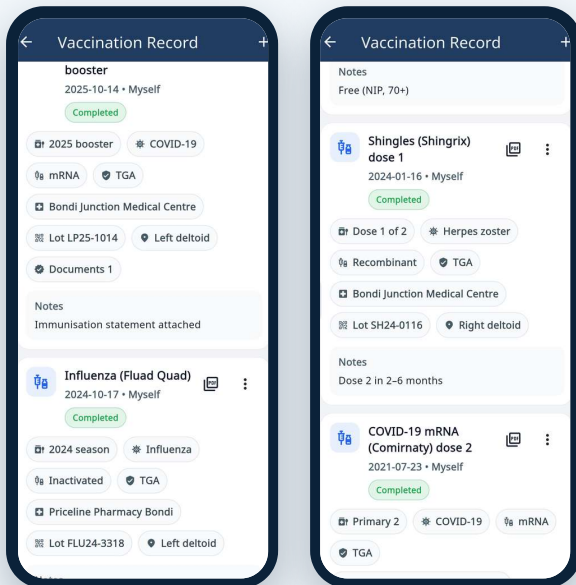
05 · VACCINATION CERTIFICATES AND DOCUMENTS

Certificates attached to the record.

Papers filed by folder.

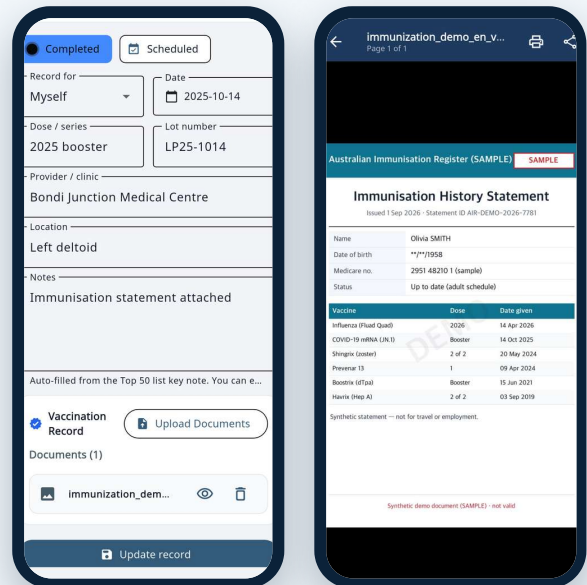
Vaccination history, travel vaccines included

Influenza, shingles, COVID-19, Tdap, hepatitis A and travel vaccines such as typhoid build up as dated cards, each with dose, vaccine type, where it was given, lot number, injection site and a note.



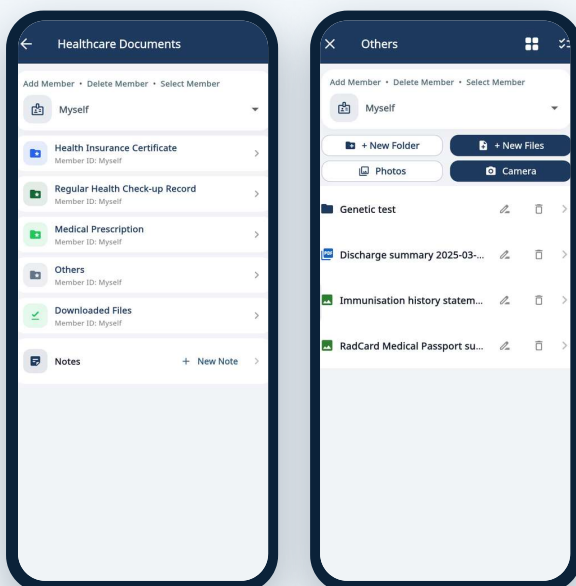
Attach the certificate to the record

Upload the vaccination certificate as a document on each record. Choose the vaccine and the disease, vaccine type and authority fill in; the attached certificate opens inside the app, ready to print.



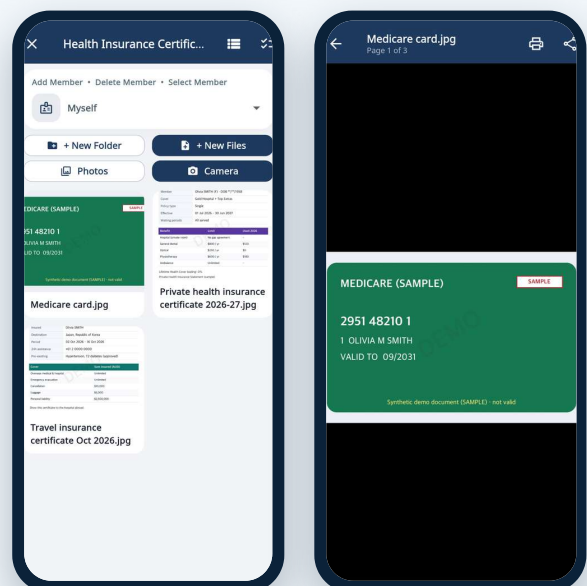
Healthcare documents, filed by folder

Insurance certificates, check-up records, prescription lists, other papers and downloaded files each have a folder, for every family member. Add a new folder or file, a photo, or use the camera.



Insurance certificates, open when needed

Health insurance eligibility statements and private medical or travel insurance certificates show as thumbnails, and open full-screen to show or print.



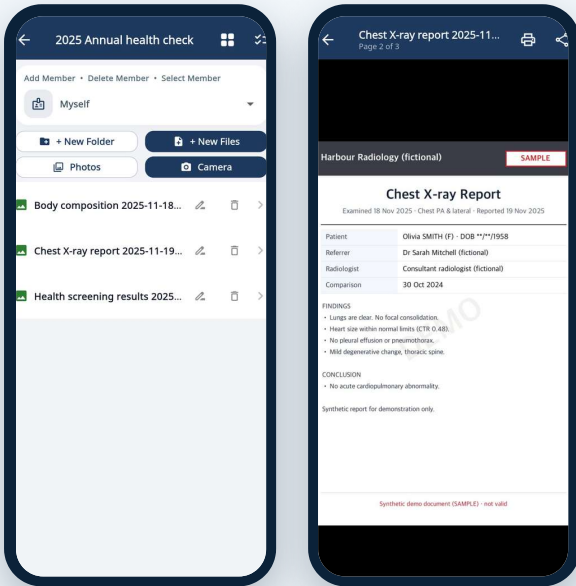
05 · CHECK-UPS, PRESCRIPTIONS AND LANGUAGES

Paper kept as photos.

Emergency info and medicines in their language.

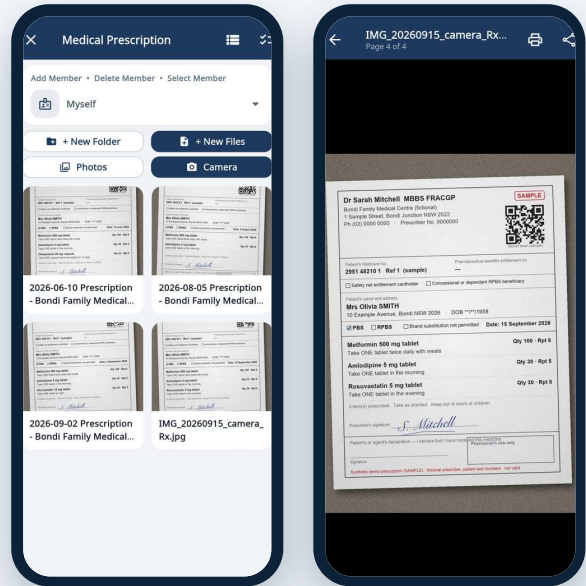
Check-up records, one folder a year

Make a folder for each year's national health screening and keep the results letter, chest X-ray report and blood test results inside. Browse them as thumbnails and open any one to read.



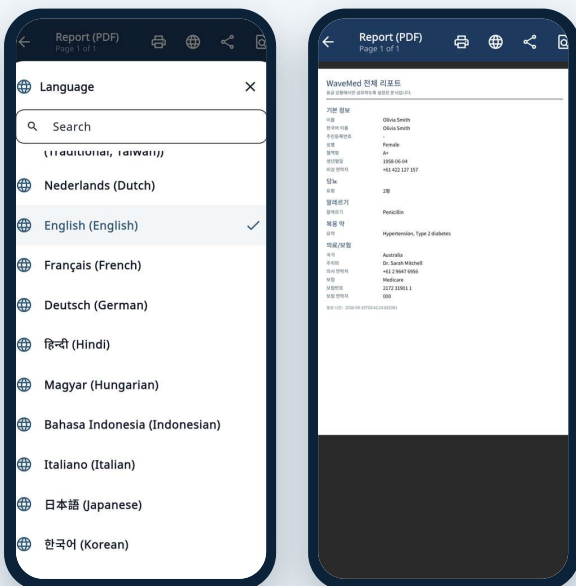
Upload a prescription with the camera

Tap Camera in the prescription list and photograph the paper prescription; it goes straight into that person's folder as a dated file. No more loose papers from every pharmacy.



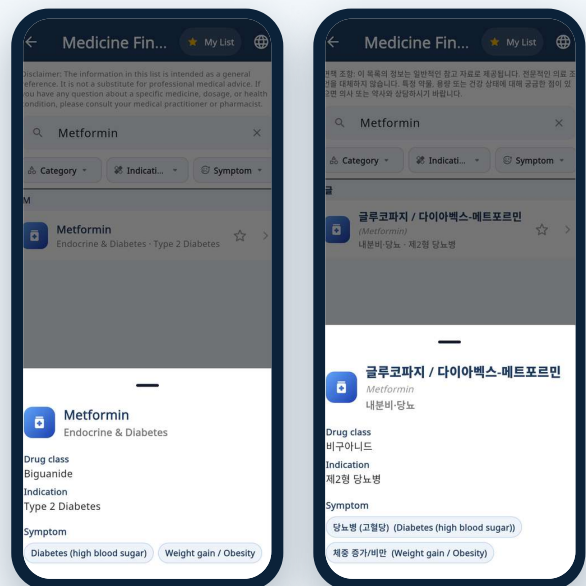
Emergency report: pick a language, on the spot

Choose a language on the report screen and the same emergency information is rebuilt in it, in 26 languages. Headings and items chosen from a list change to that language; notes you typed stay as you wrote them.



Medicine Finder: your medicine in the local language

Search by name and the brand names appear with the English INN, drug class and indication. Switch the language on the screen and the same medicine changes to that language: 1,000 medicines, 26 languages.

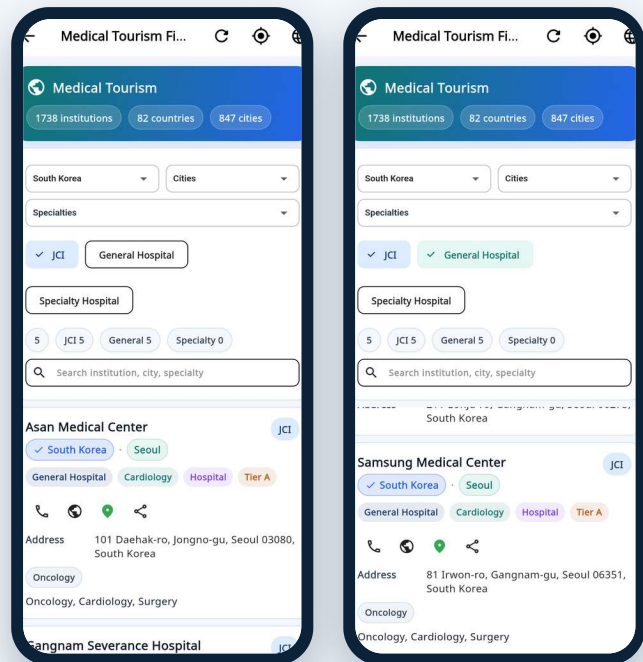
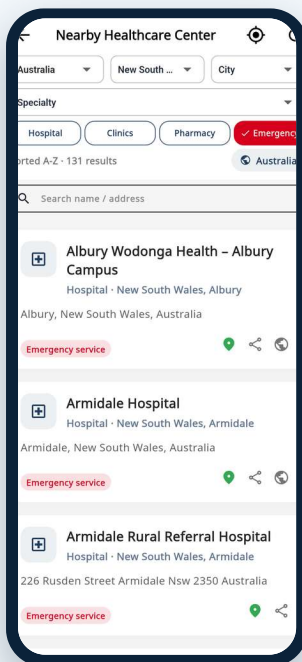


05 · ABROAD, AND WHEN IT IS URGENT

Hospitals and the way there, even somewhere new.

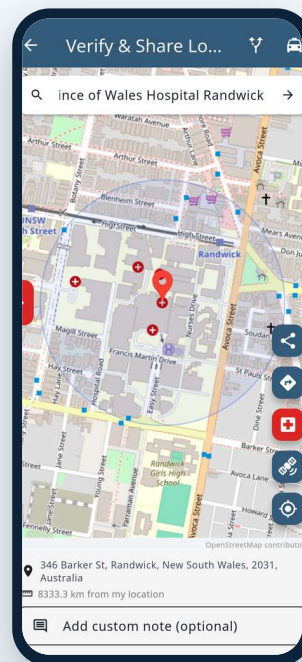
Medical tourism: 1,738 facilities in 82 countries

Search hospitals abroad by country, city and specialty, and narrow the list to JCI-accredited, general or specialist hospitals. Each one shows its address, phone, website and map location.



Nearby medical centres: find an emergency room

Choose country, city and specialty, filter by hospital, clinic, pharmacy or emergency centre, and hospitals that run an emergency room are marked. Search by name or address and open the map location in one tap.



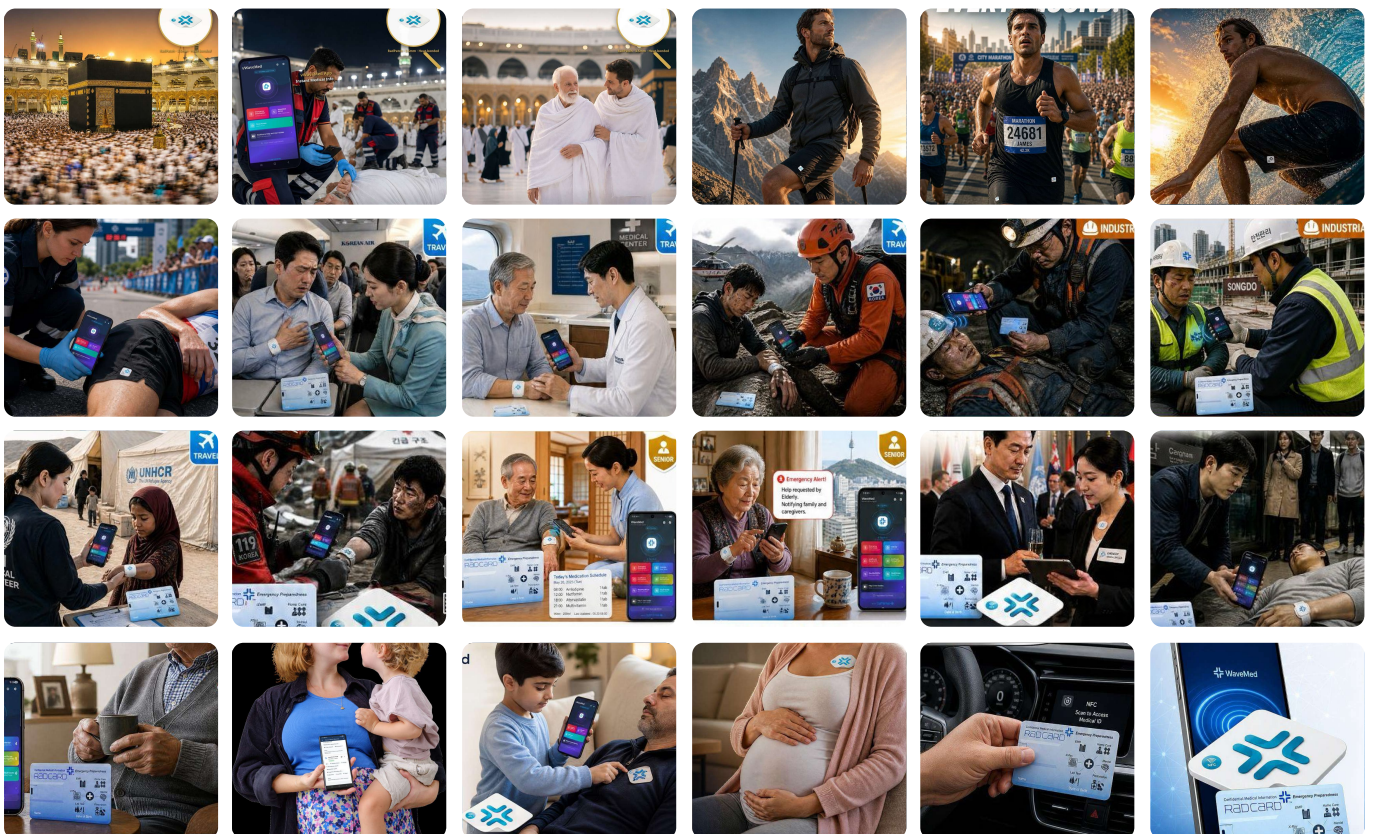
Verify & share location, on one map

Search a place and the map shows the pin and the hospitals around it, with the address and the distance from where you are. Share, directions and ride buttons sit on the map, and you can add a note before sending.

Watch straps, collars, bags, helmets, shoes, phone cases, pet collars. Attach it once and the same information is read anywhere.



Pilgrimage, mountains, aircraft, hospitals, industrial sites, disaster zones. Shown in the reader's language.



06 · GETTING STARTED

Five minutes today and you are ready.

1

Install the app

Scan the QR code and get WaveMed from Google Play / App Store. It is free and needs no account.

2

Enter your details and write the patch

Name, date of birth, blood type and an emergency contact; add allergies and medication as needed. Hold the phone to the patch to save. A four-digit PIN appears. Write it down.

3

Attach it and forget it

Put it where you always carry it. When your medication changes, read the patch, enter the PIN and update. Nothing else to do.

Get WaveMed on Google Play / App Store · Free



WaveMed
Google Play



WaveMed
App Store



vWaveMed
Google Play



vWaveMed
App Store

Frequently asked questions

Q. How much staff and equipment does registration need?

One laptop, one reader and one staff member register hundreds a day with the Desktop Writer. The app alone also registers.

Q. Which phones can read it?

Any current smartphone. Most Android phones on 8.0 or newer, and recent iPhones.

Q. Can strangers read my private information?

The patch holds only what you chose to show in an emergency. Changing or erasing it needs the PIN, and apps other than the WaveMed family cannot open it.

At a glance

Size	Fingernail-sized (from 3.5 × 3.5 mm), thin and flexible
Material	Silicone · machine washable
Waterproof	Double sealed (silicone body + sealed chip)
Power	None (passive)
Reading	Any smartphone, 1 second · no internet needed
Security	Encrypted · 4-digit PIN · only genuine patches can be written
Languages	26, shown automatically
Apps	WaveMed (owner) · vWaveMed (paramedics, responders, fire crews) · free

WORKING TOGETHER

Working with relief organisations

1. Pilot in one camp or response team: bands, the Desktop Writer, a reader, thirty minutes of training.
2. A shared reader-app agreement between organisations.
3. Registration and transfer cases become a standard procedure.

Even without a patch, the app alone gives you

Your health log

Blood pressure, blood sugar, medication and supplements by date, with a 30-day trend.

Document folder

Check-up results, prescriptions and vaccination certificates as photos or PDFs, ready when asked.

Family records

Separate records for your children and parents, printed as a one-page report.

Fastest nearby hospital and pharmacy search

Every hospital and pharmacy around you, nearest first, with the country's emergency number.

Local transport in every country

Uber, Kakao T, Bolt, Grab and the other ride services of that country, one tap to the hospital.

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radcard.com · idatamap.com

RadPatch and WaveMed store and display emergency information you entered yourself. They do not replace medical care or first aid. In an emergency, call your local emergency number first.





When you cannot speak, the patch speaks for you.

RadPatch is the smallest way to carry the emergency information you chose, on your body. No battery, no internet, no account.

Get WaveMed on Google Play / App Store



WaveMed
Google Play



WaveMed
App Store



vWaveMed
Google Play



vWaveMed
App Store

SCAN THE PATCH. SAVE A LIFE.

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