# Current status and future plans for

# “My healthway”

Korea Health Information Service
PHR Dept.

## I Overview

1. Background
2. Medical MyData
3. My healthway
4. Business overview

## II Current status

1. Definition and standardization of linked data
2. Personal health record (PHR) app

## III Future plans

1. Functional improvement and advancement
2. Expansion of affiliated medical institutions
3. Expected effect

# I Overview

1. Background
2. Medical MyData
3. My healthway
4. Business Overview

# 01. Background

| Past-Present | Change in medical paradigm | Future |
| --- | --- | --- |
| Focus on treatment | | Focus on prevention and health management |
| Provider-oriented | | Consumer (patient)-oriented |
| Pay attention to medical input | | Pay attention to medical outcomes |
| Provision of health care in segments | | Mutually cooperative medical linkage |
| Automation through ICT-based work | | Providing customized services using AI and big data |

# 01. Background

## National task number 25 of the Yoon Seok-yeol administration
### (Bio health, innovation in digital healthcare)

### 25-3. Creating an innovative ecosystem for digital healthcare

Establishment and customization of a
'My healthway' system

that allows each citizen to easily access and use their own medical health information

### Government initiatives on digital platforms

1. Developing a government innovation ecosystem through digital platforms such as MyData
2. Reorganizing legal interpretations and practices that impede openness and joint use
3. Legislation of the right to request transmission of personal information and introduction of corporate my data

# 02. Medical MyData

## Target information

- Medical informaiton and health insurance
- General health information (life log, etc.)
- Public information (epidemic diseases, etc.)
- All other information related to personal health

## Type of service

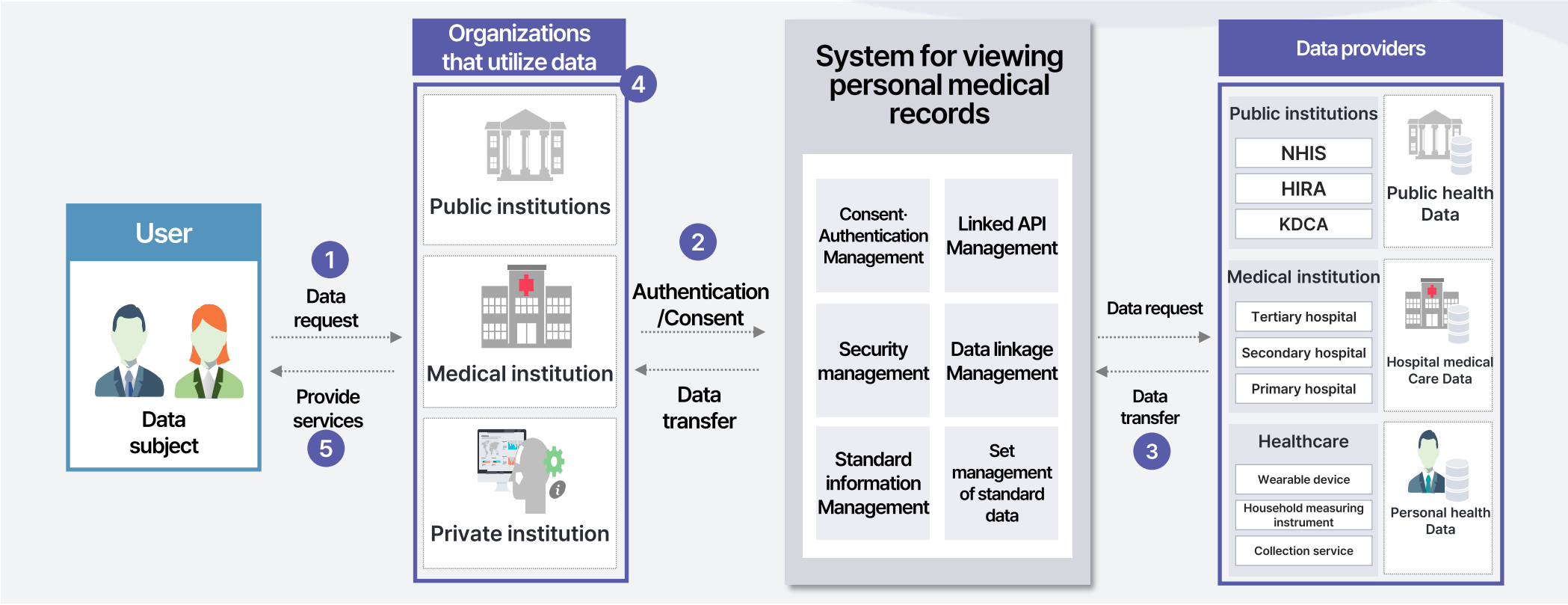
| | |
|---|---|
| Integration of medical data | View and manage **personal health information** by integrating it in **one place** |
| Hospital treatment Support | **Supports medical staff's decision-making** by providing integrated personal health information |
| Healthcare Support | Self-care assistance, such as exercise, nutrition, And medication management |

## Patient-centered healthcare

## Improving the quality of medical care

## Reduce medical costs

# 03. My healthway




**1 Data request** — The user requests data inquiry from the provider via the application

*Organizations that use data may link to the platform if their reliability has been verified through prior screening

**2 Authentication ·Consent** — Deliver authentication results and request details to the person who requested the inquiry

**3 Data transfer** — The user's requested data is delivered via the personal medical record viewing support system

**4 Use of data** — Users can check and share inquiry data through the app

**5 Provide services** — Providing PHR-based services (ex. customized health care, etc.)

# 04. Business overview

## Project

### ❶ Project Name

"My healthway"

### ❷ Project period

2021.8.11~2023.9.27

1st year: '21.8.11~'22.7.29

2nd year: '22.7.30 ~ '23.9.27

### ❸ Department in charge

Ministry of Health and Welfare

### ❹ Ordering organization

Korea Health Information Service

## Major tasks

| | | |
|---|---|---|
| medical data collection system | Task 01 | Define collection data items |
| | Task 02 | Standardization data |
| | Task 03 | Providing incentives for data provider organizations to participate |
| + Developing a platform "Myhealthway" | Task 01 | Creating a platform infrastructure |
| | Task 02 | Implementation of authentication and consent system |
| | Task 03 | Establishment of data linkage network |
| + Individually directed medical data Utilization support | Task 01 | Development of an PHR app |
| | Task 02 | Preparation of plans for connecting to and managing utilized services |
| | Task 03 | Support for service development through R&D |
| Laying the groundwork f | Task 01 | Improvement of laws and systems |
| | Task 02 | Establishment of governance for public-private collaboration |
| | Task 03 | Developing strategies for public communication |

## medical institutions

| | Tertiary general hospital | General hospital | Hospital | Clinic | Total |
|---|---|---|---|---|---|
| 1st year | 2 | 9 | 4 | 230 | 245 |
| 2nd year | 7 | 4 | 4 | 600 | 615 |
| Total | 9 | 13 | 8 | 830 | 860 |

# II Current status

1. Definition and standardization of linked data
2. Personal health record (PHR) app

# 01. Definition and standardization of linked data

## Medical institution and public institution data

### Standard linked items in medical data

| | | | |
|---|---|---|---|
| 1 | Patient | 7 | Imaging Report |
| 2 | Organization | 8 | Diagnostic Report |
| 3 | Practitioner | 9 | Other Report |
| 4 | Condition | 10 | Procedure |
| 5 | Medication Request | 11 | Allergy Intolerance |
| 6 | Observation | 12 | Document Reference |

### Standard linked items in public data

| | |
|---|---|
| 1 | Corporation's examination results (NHIS) |
| 2 | Medical treatment history (NHIS) |
| 3 | Vaccination details (KDCA) |
| 4 | Drug prescription details (HIRA) |

## Planned to connect

### Standard linked items in PGHD

| | |
|---|---|
| 1 | Activity information |
| 2 | Blood pressure information |
| 3 | Blood sugar information |
| 4 | Sleep information |
| 5 | Physical information |

# 01. Definition and standardization of linked data

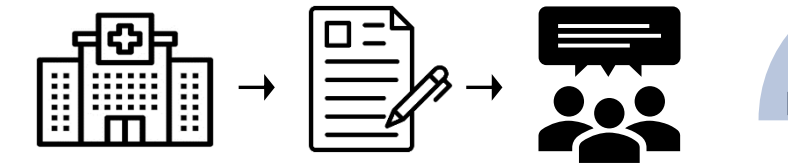
R : Required to provide R2 : Required when storing data O : Optionally provided

## Standard linked items in medical data

| No. | Items | Essential | No. | Items | Essential | No. | Items | Essential |
|---|---|---|---|---|---|---|---|---|
| 1 | Patient | R | 5 | Medication Request | R2 | 9 | Other Report | R2 |
| 2 | Organization | R | 6 | Observation | R2 | 10 | Procedure | R2 |
| 3 | Practitioner | R | 7 | Imaging Request | R2 | 11 | Allergy Intolerance | R2 |
| 4 | Condition | R | 8 | Diagnostic Report | R2 | 12 | Document Reference | O |

## Medical institution

### Selection and collection of medic




## “My healthway” System

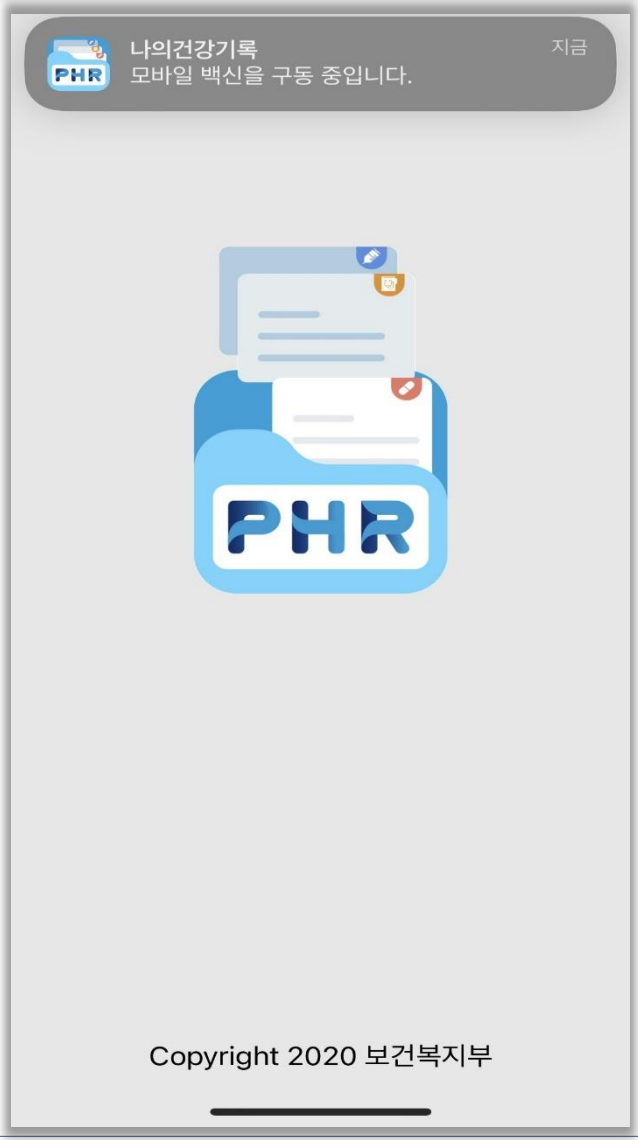
### Use of medical data



# 02. Personal health record (PHR) app




## Main Screen



# 02. Personal health record (PHR) app

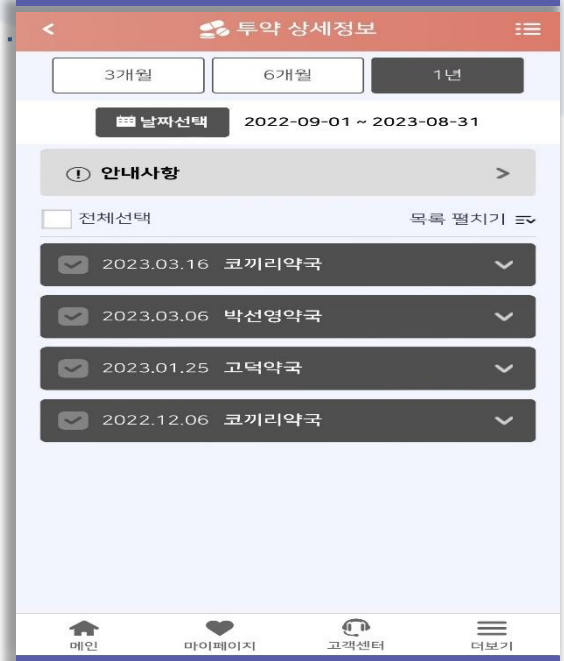
## 1 Search for public data

### Public institutions

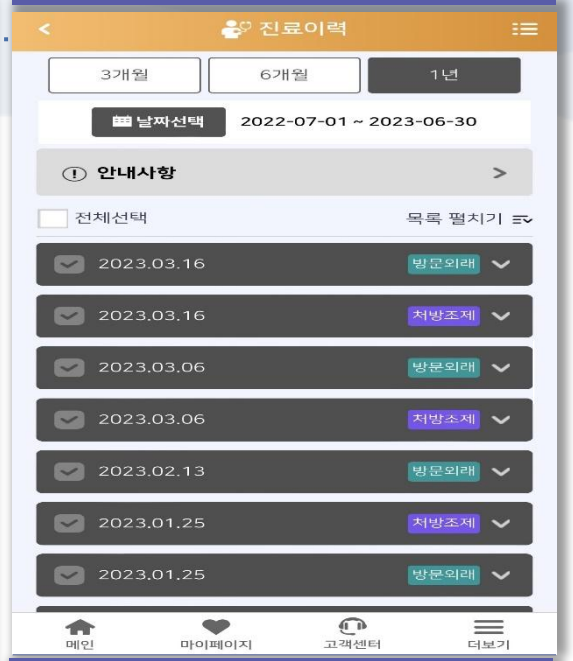



Search item

### 1. Medication information




### 2. Medical history




### 3. Examination results




### 4. Vaccination history



# 02. Personal health record (PHR) app

## 2 Search for public data

### Medical institution

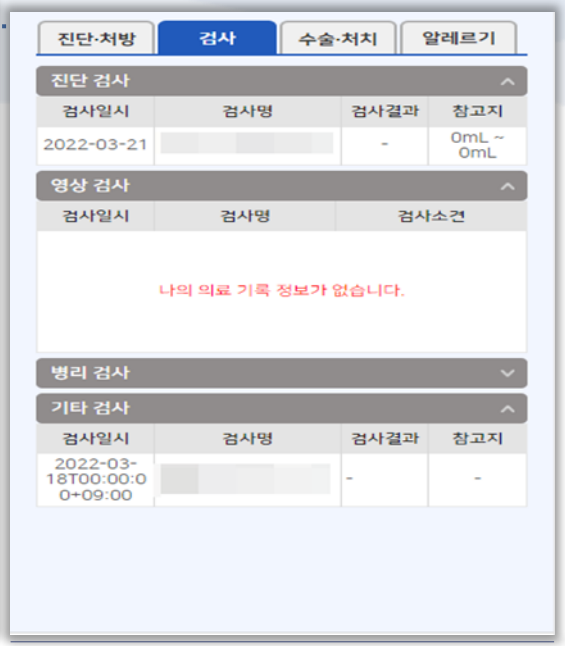



Search item

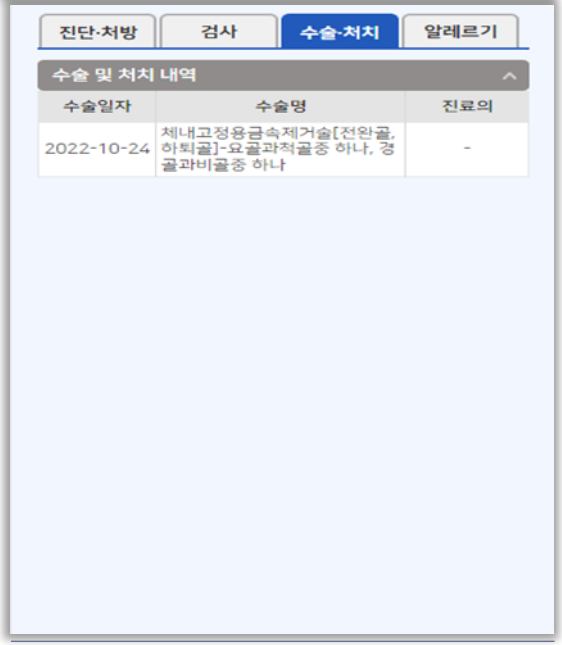
### 1. Diagnosis·Prescription



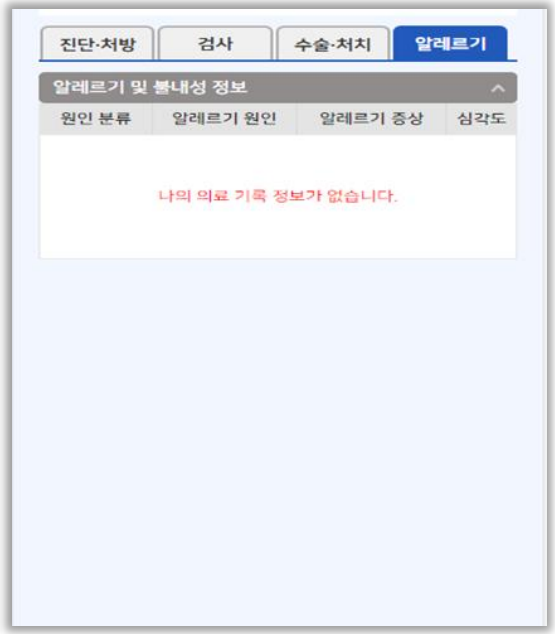

### 2. Examination




### 3. Surgery·Treatment

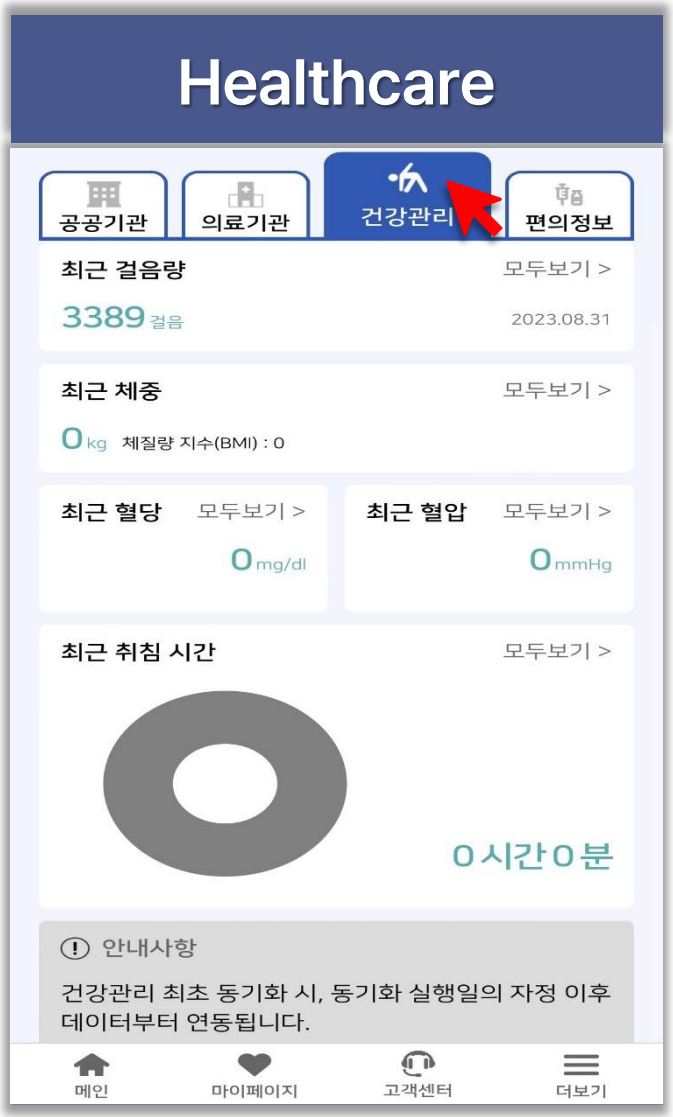



### 4. Allergy



# 02. Personal health record (PHR) app

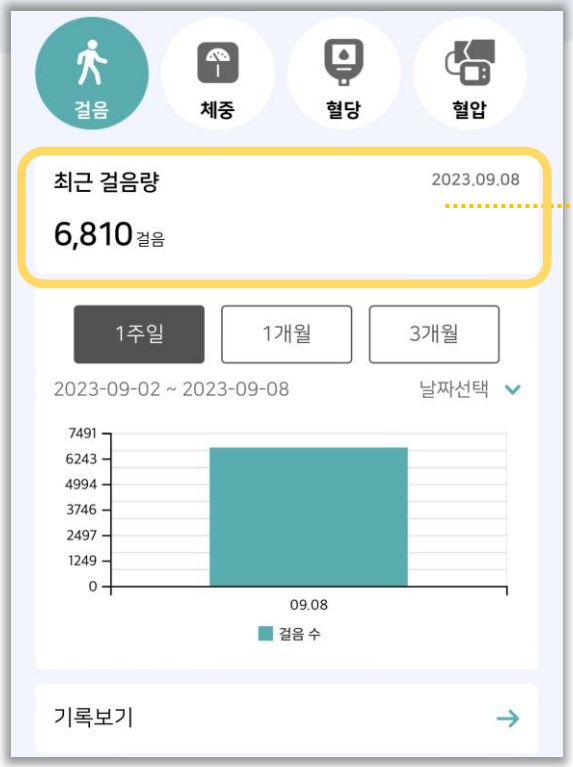
## 3 Health care



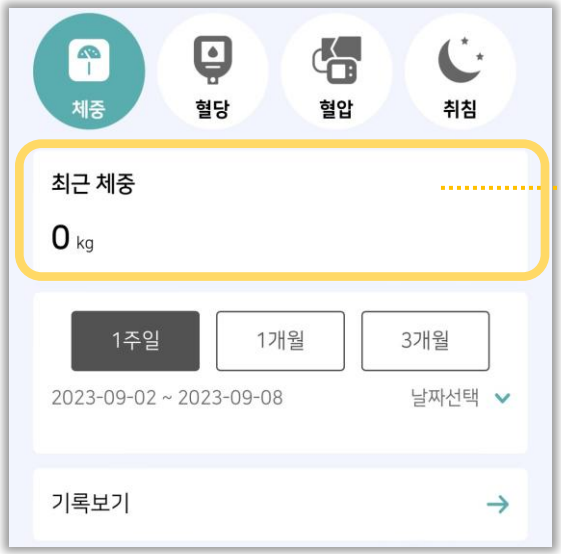



**PGHD**

* Linked with Samsung's health and Apple's 'Health' apps



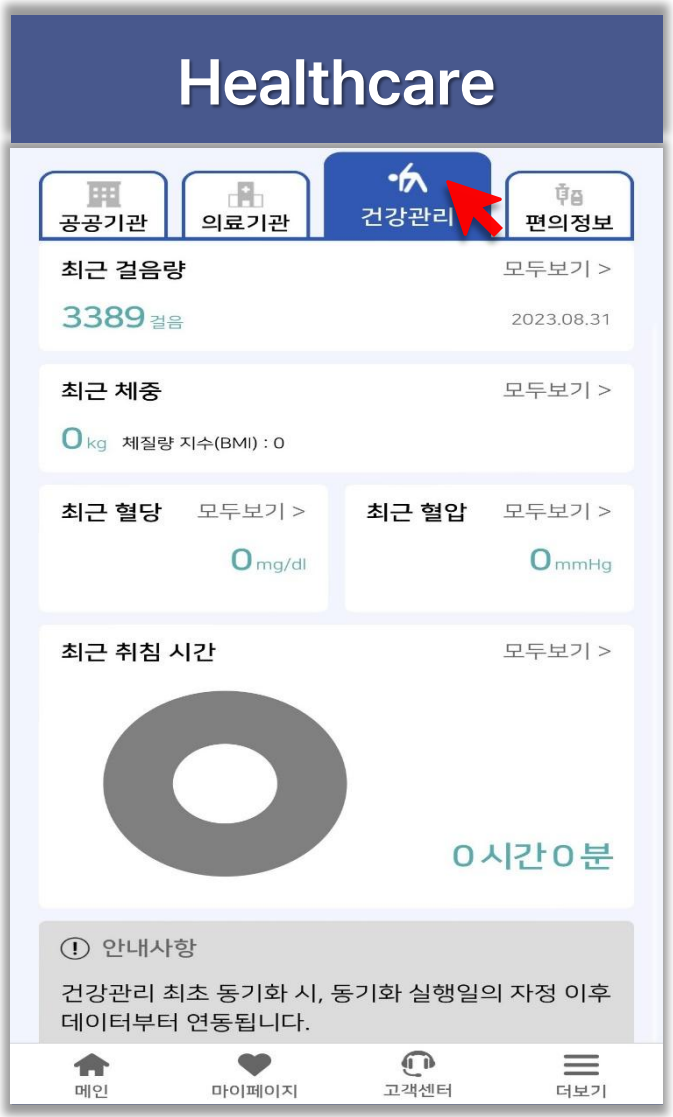

Checking the amount of steps




Check the weight

# 02. Personal health record (PHR) app

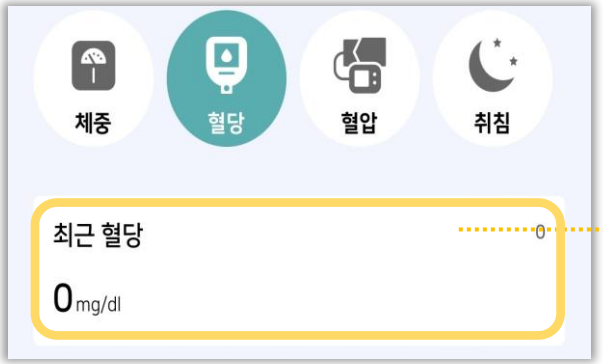
## 3 Health care



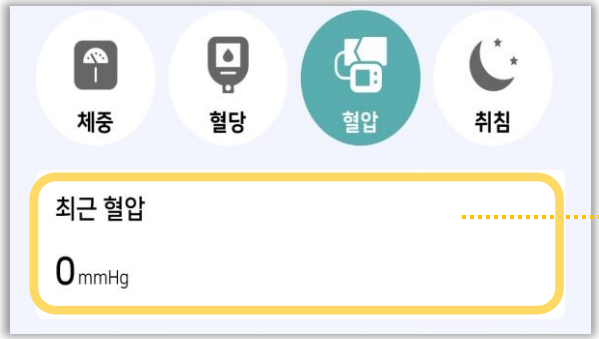



**PGHD**

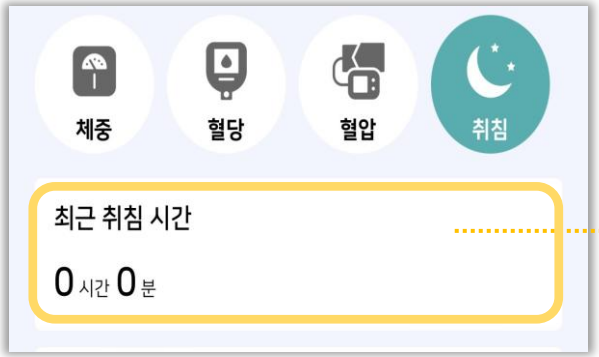
* Linked with Samsung's health and Apple's 'Health' apps




Check recent blood sugar level



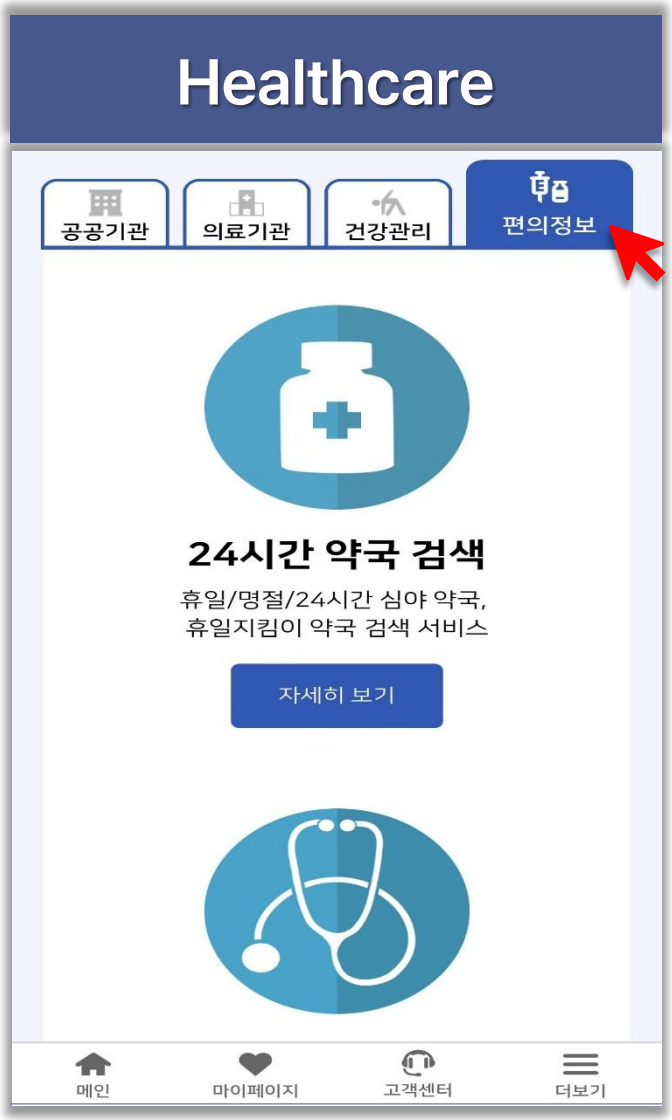

Check recent blood pressure

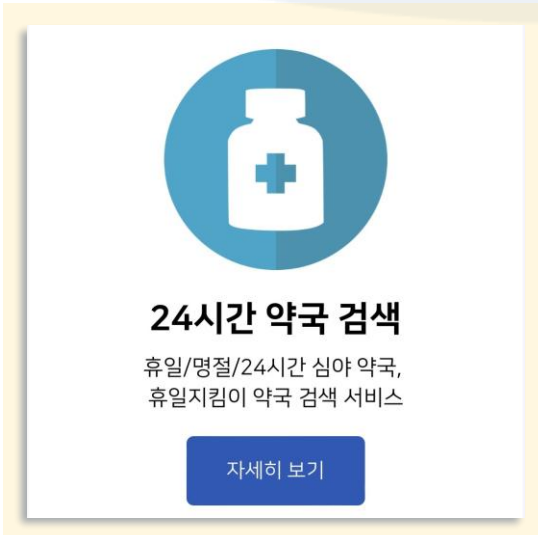



Check the bedtime

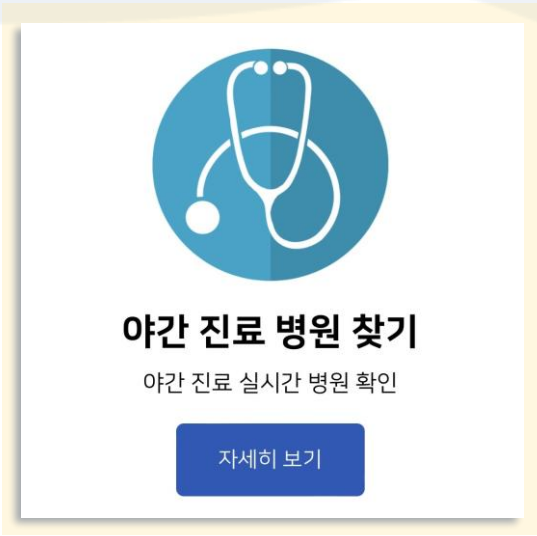
# 02. Personal health record (PHR) app

## 4 Convenience information

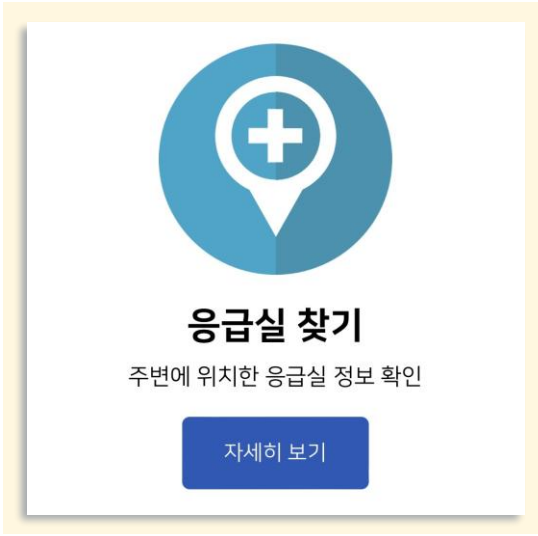


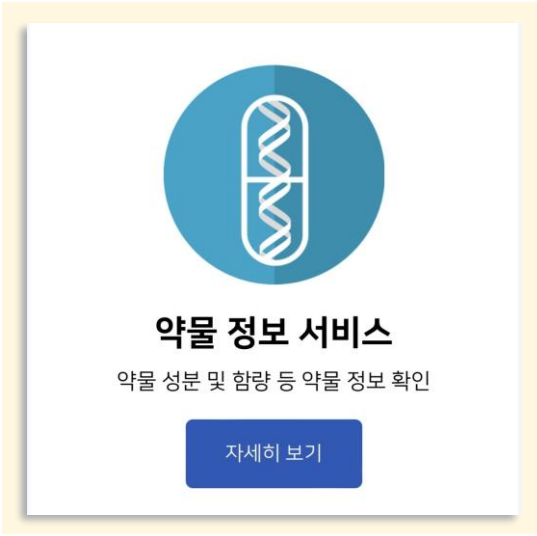

24-hour pharmacy search service




Real-time check of night care hospital




Check information on emergency rooms located nearby




Check information such as drug ingredients and content

# III Future plans

1. Functional improvement and advancement
2. Expansion of affiliated medical institutions
3. Expected effect

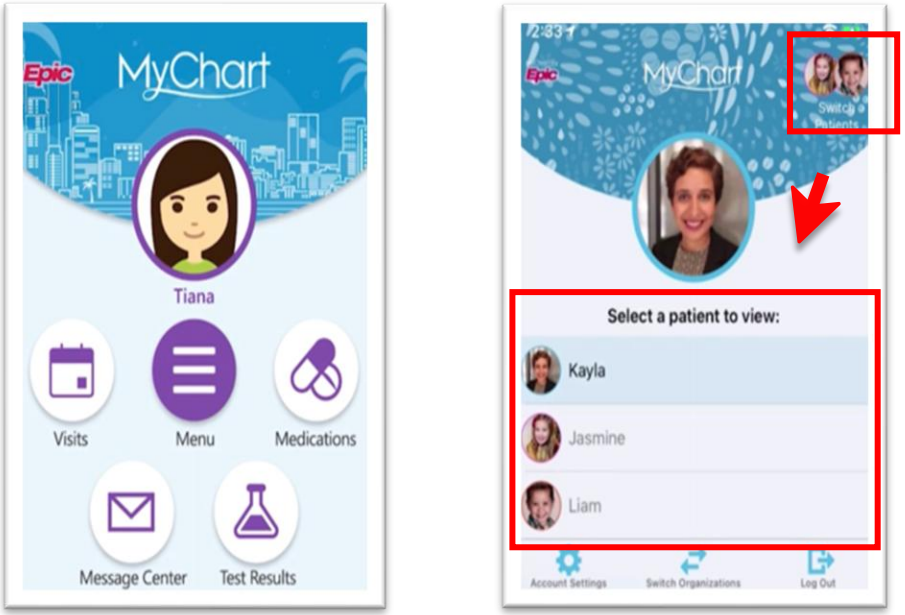
# 01. Functional improvement and advancement

## Promote user convenience and enhance functions of “My healthway”

### Increase user convenience

▶ Create user-friendly app screens
by visualizing the information provided

▶ **Lifelog connection through healthcare devices**




**<(Example) U.S. Mychart>**

### Advancement of sharing functions

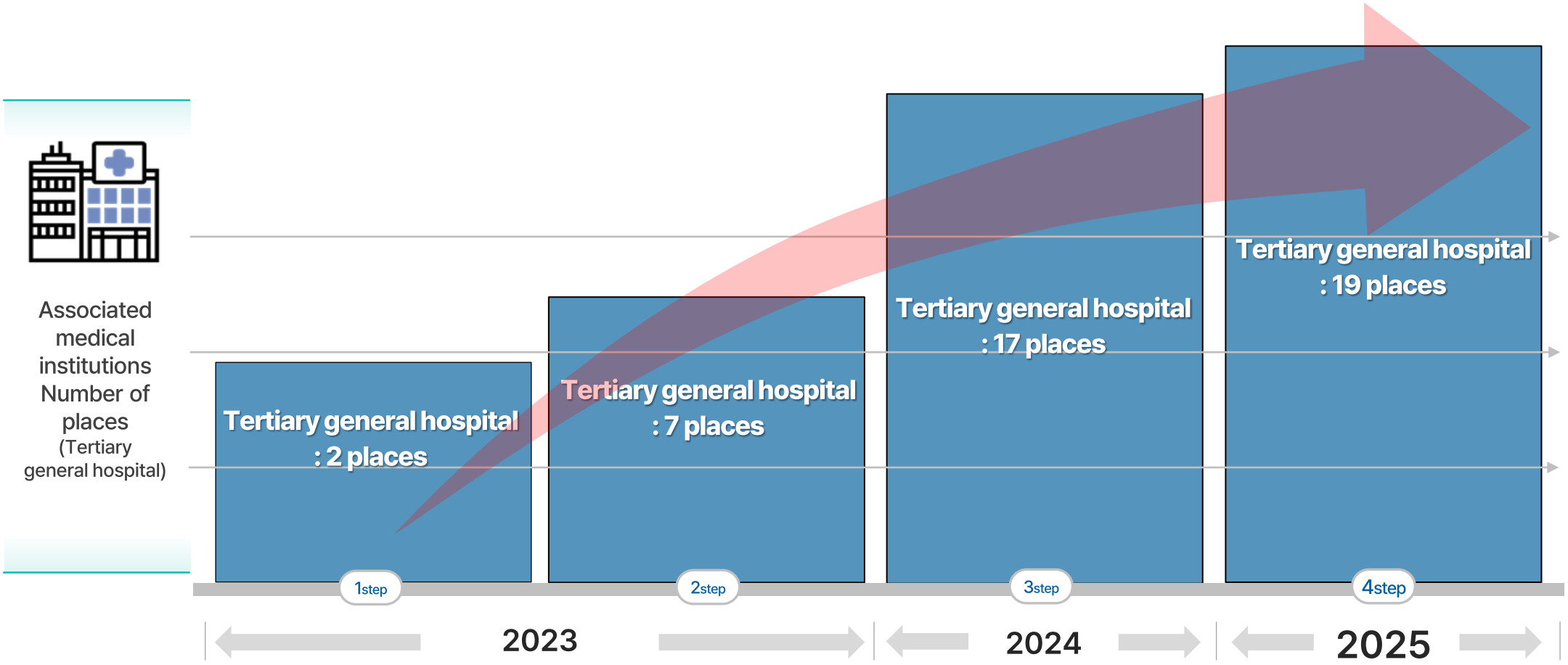
▶ **Medical information shared by patients can be viewed and** stored in the medical institution’s EMR system
(Deep link, API, etc.)

### Linkage with utilizing organizations

▶ **Linkage support through API development for utilizing organizations**
(After enactment of the law)

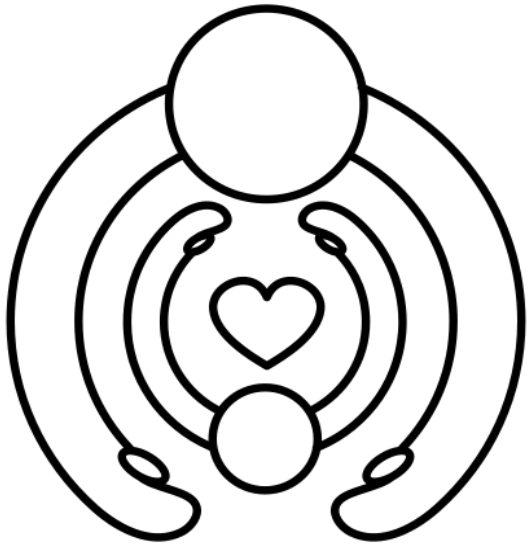
# 02. Expansion of affiliated medical institutions

## Promote expansion of participating medical institutions

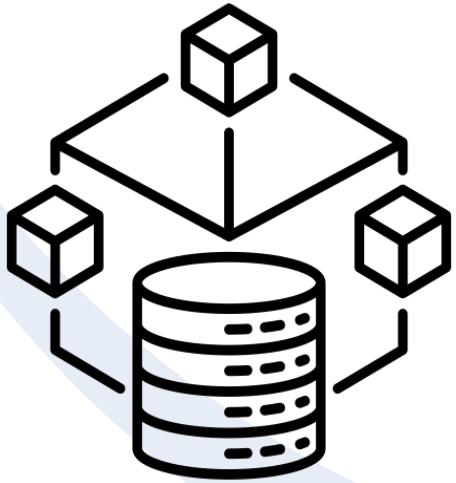


# 03. Expected effect

**Through "My healthway,"**
**take the first step toward becoming a global leader in digital health**



**Improving the health of all citizens**



**Creating a digital healthcare environment**

# Thank you