skeeper

Why is a Skeeper needed?



Skeeper is an AI stethoscope that precisely measures and analyzes heart/lung (respiratory) function.

Heart and lung (respiratory) chronic diseases often have an **asymptomatic stage** in the early stages.

By regularly checking heart/lung (respiratory) function, you can detect chronic diseases early and prevent them.

Top 3 Causes of Death

1 Cancer

2 Heart

3 Lung

Increased mortality rate due to asymptomatic heart/lung chronic diseases

2x
Cardiopulmonary **Prevalence**

14x
Cardiopulmonary **Mortality rate**

55%
Hospitalized Patients **Prevalence**

Stability and Reliability

SNUH 서울대학교병원 · 고려대학교안암병원 · 중앙대학교병원 · 강북삼성병원 · KAIST · 세종병원 · 서울아산병원

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Skeeper Process



Measurement with the AI-powered stethoscope Skeeper

Measures heart and lung function
with precision and transmits data to medical professionals

Health monitoring via a healthcare app

Analyzes, quantifies, and manages measured physiological signals
Continuous health status monitoring via a healthcare app

AI Health Screening

By applying an AI screening model,
screen for major heart and lung-related conditions
(Heart: heart murmurs/heart valve ; Breathing: wheezing/crackle)



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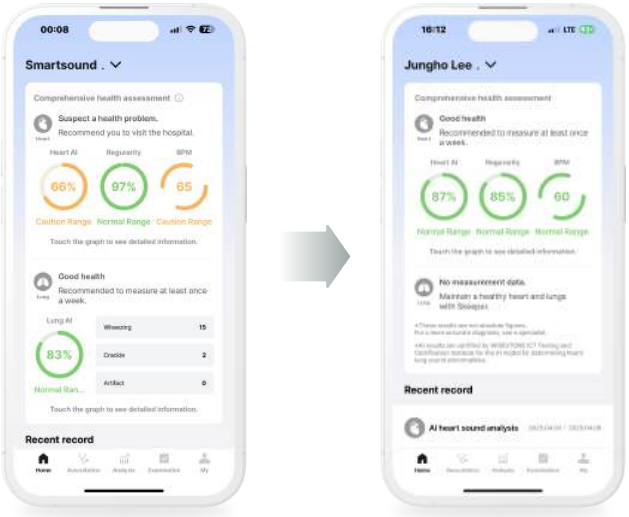
Skeeper's 'Green Health Culture'



The first step toward a healthy life in the era of 100-year lifespans!

Check your heart and lung (respiratory) health regularly and monitor your body's signals with AI analysis.
Join us on a journey to build vibrant health like the sprouts of spring.
Start now for a healthy future!

Healthier Heart/Lungs (Respiratory)



Don't worry !
If your health status shows a yellow or red light.

Get regular checkups, consult with a Skeeper specialist if abnormalities are detected, and visit a hospital promptly for treatment. Health management starts with quick action.

If you consistently see a yellow or red light, contact the Skeeper specialist call center for an explanation of your health status and assistance with scheduling an appointment at a nearby hospital.

Early detection and prompt consultation with a specialist are key to maintaining a healthy heart and lungs (respiratory system)!

Health Analysis Indication



Heart AI

Abnormal heart sounds such as heart murmurs or valve issues may result in a lower score.

Heart Rate Rhythm

Calculates the overall interval between heartbeats to determine how regularly the heart is beating.
(Irregular heartbeat may indicate arrhythmia or heart failure.)

Heart Rate (BPM)

Heart rate is indicated within a range of ±20 BPM from the standard heart rate criteria for gender and age.



Lung AI

Representative respiratory diseases include “crackle” and “wheezing.” If these abnormal sounds are detected, a low score will be displayed.

Wheezing

This sound is found in asthma, COPD etc.
A whistling sound occurs during inhalation and exhalation.

Crackle

These sounds are found in conditions such as pneumonia, COPD, and bronchiectasis.
They sound like water droplets bursting.



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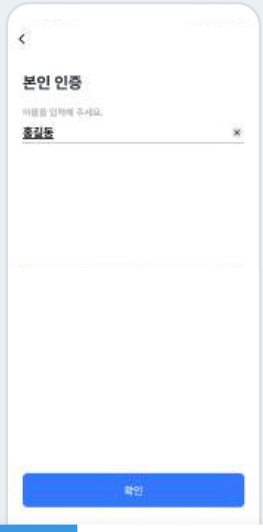
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01

Enter your name.



02

Enter your email address.



03

Click the “Request Email Verification” button.



04

A 6-digit verification code will be sent to the email address you entered.



05

Enter the 6-digit verification code you received via email.



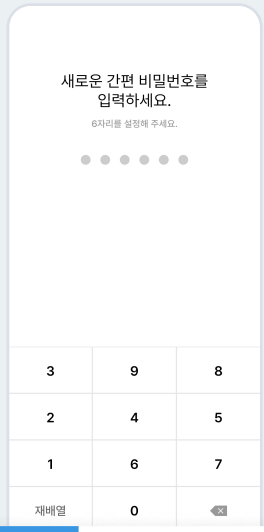
06

Select all privacy agreements and click the “Complete” button.



07

Enter a password of 8 to 20 characters using letters, numbers, and special characters.



08

Enter a 6-digit easy password for convenient login.



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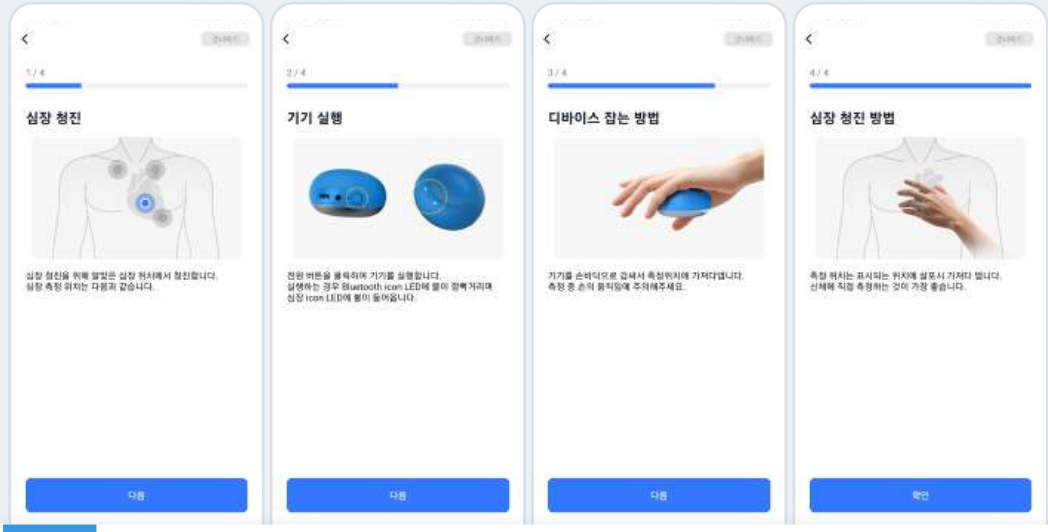
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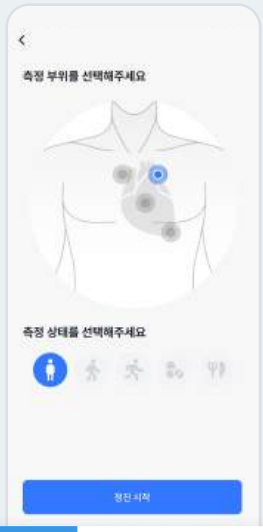
01

In the “Auscultation” tab, click the “Heart Sound Measurement” button.



02

For the first cardiac auscultation, fix the device at the H3 point.
Ensure the entire bottom surface of the stethoscope is in contact with the body.
(H3 point: 3–5 cm above and to the left of the sternum)



03

Select the measurement site and condition.



04

If only heartbeat sounds are heard without any noise, press the Start Auscultation button to begin recording.



05

Once measurement begins, you can hear and view the heart sounds in real time.



06

Recorded data can be reviewed using AI results to confirm normal or abnormal conditions.

(Recommended: Measure at least once a day for a minimum of 5 days)



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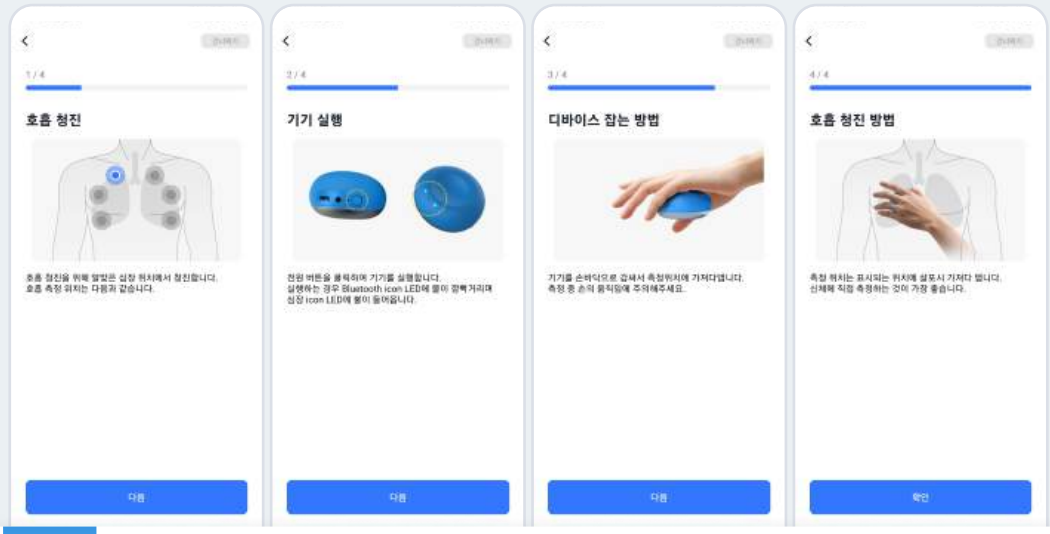
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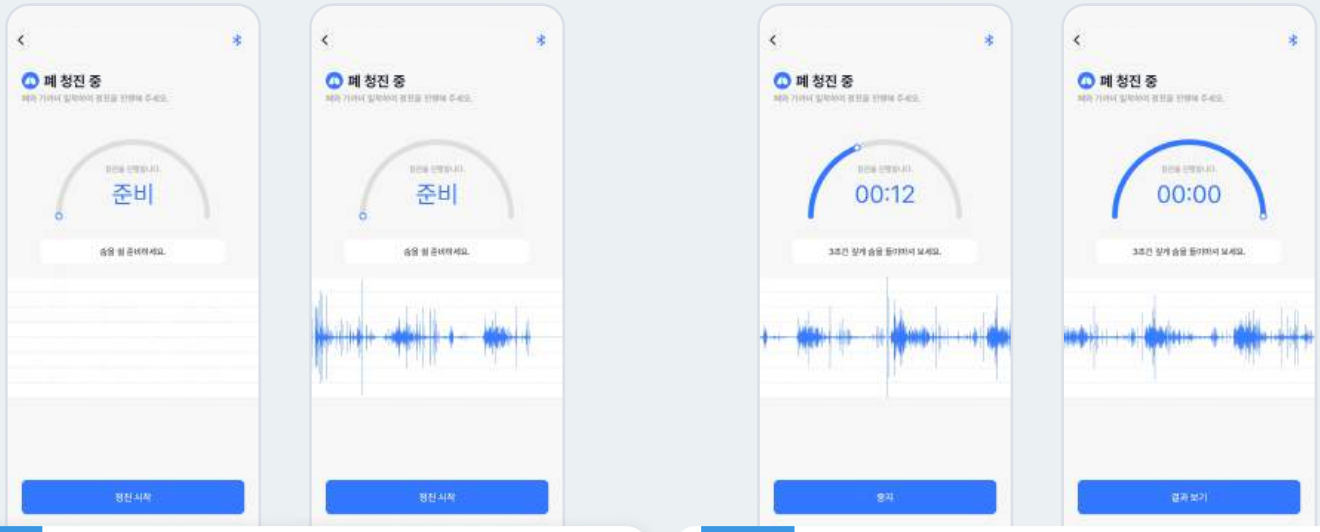
01

In the “Auscultation” tab, click the “Lung Sound Measurement” button.



02

When performing lung (breathing) auscultation for the first time, secure the device at the R1 point. Ensure the entire bottom surface of the stethoscope is in contact with the body.
(We recommend securing it directly on the skin.)
(R1 point: the indented area below the right collarbone)



03

Avoid moving your hands and body excessively, and breathe deeply and slowly, similar to diaphragmatic breathing performed in a hospital.
Inhale for 3 seconds / Exhale for 2 seconds

04

The breathing sound graph should be drawn in a diamond shape as shown below, with no gaps in the graph.

Lung Graph Reference



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skeeper AI results

Heart AI



Heart AI Results

If low scores persist, suspect an issue with heart health.

(Heart murmurs, heart valve issues, etc.)

Lung AI



Lung AI Results

If low scores persist, suspect an issue with lung (breathing) health.

Wheezing

High-pitched whistling sound caused by airway narrowing

(Asthma, COPD, bronchitis, etc.)

Crackle

Sounds of fluid bursting or crackling

(Pneumonia, Pulmonary Edema, ILD, etc.)

Important Note

- ☑ Skeeper AI is not intended for diagnostic purposes. It is a home healthcare AI that detects abnormal sounds.
- ☑ It recommends listening and analyzing once a day.
- ☑ If the AI result is 30% or lower for five consecutive days based on the once-daily auscultation standard, we recommend consulting a nearby hospital.
- ☑ If external noise accounts for 30% or more of the analysis, we recommend remeasuring.
- ☑ The more measurements you take, the more accurate the AI auscultation becomes.
- ☑ Auscultation data can be shared with a medical professional during a future hospital visit by playing it through headphones.



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