withapet

Why is WithaPet Necessary?



WithaPet is an AI stethoscope that precisely measures and analyzes heart and lung (respiratory) functions.

Preventive Care: Heart disease is a major cause of death in pets, often starting with no symptoms.
Periodic checks of heart and respiratory rates allow for the early detection of chronic diseases and prevention.

Dog Health Management

Asymptomatic Heart Disease:
-In the pre-heart failure stage, there are no visible symptoms, but heart deformation begins.
-Heart murmurs can be heard through auscultation to confirm the presence of heart disease.
-Depending on the progression, consultation followed by ECG, X-ray, or ultrasound may be necessary.
-Heart disease is the 2nd leading cause of death in dogs, with MMVD (Myxomatous Mitral Valve Disease) accounting for 70% of these cases.
-Over 85% of small senior dogs suffer from this disease.

WITHaPET Service
- We provide a remote monitoring service by linking with veterinary clinics to automatically transmit heart auscultation sounds (Heart Rate, AI, MMVD Stage) and respiratory rate change data.
- Veterinary clinics can remotely manage data measured via mobile through the Portal.

Cat Health Management

The Silent Killer:
-HCM (Hypertrophic Cardiomyopathy), often called "cat heart disease," is a condition where the left ventricular muscle thickens.
-Depending on progression, consultation followed by auscultation, X-ray, or ultrasound is needed.
-HCM is common in domestic cats, with a prevalence of 15%.
-Cats diagnosed with HCM are prescribed "Atenolol" & "Diltiazem.

The Owner's Role:
- After prescription, heart rate monitoring is required, but it is difficult to do at a hospital (due to stress-induced heart rate spikes in cats). Owners should measure heart and respiratory rates at home and share the data with the hospital.

WITHaPET Process



Measurement with WITHaPET AI Pet Stethoscope

A medical stethoscope capable of transmitting data to medical staff after precise measurement of the heart and lungs.

Health Monitoring via Healthcare App

Continuously monitor health conditions through the healthcare app by analyzing, indexing, and managing the history of measured vital signals.

Artificial Intelligence (AI) Screening

Screens for major heart and lung-related diseases by applying an AI diagnostic model (Heart: Heart Murmurs / Valvular Disease).

안정성 및 신뢰도




WithaPet AI Accuracy: 90%+



Best Exhibition Presentation Awards at FAVA 2024.



Published papers in BMC Veterinary Research on Deep Learning-based detection of MMVD.



App Download

Android

iPhone

Vet Interview

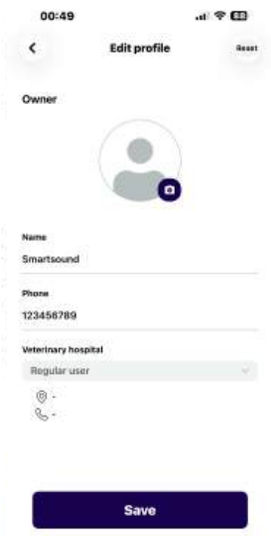
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withapet User Manual (Pet Owner)



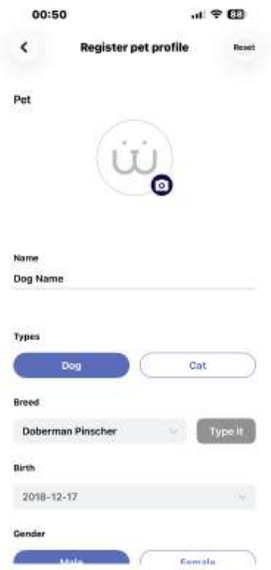
01

Download WITHAPET for Vet, agree to the privacy policy, and start.



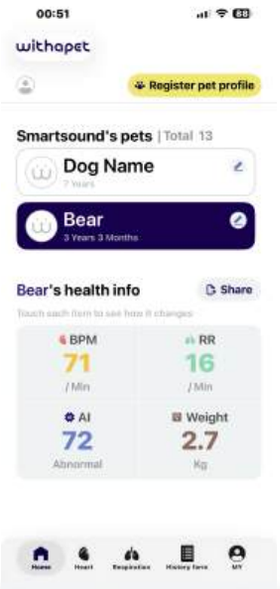
02

Enter the guardian's name and contact information, then select your veterinary clinic.
(Note: The app cannot be used if a veterinary clinic is not selected.)



03

Enter your pet's information.



04

On the main screen, you can view a list of all saved pets and access detailed data for each profile.



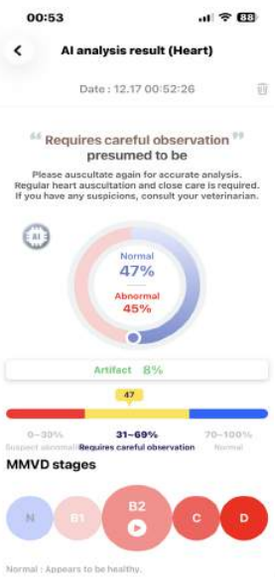
05

With the product enclosed in your palm, lightly press it against the pet's heart area (where the heartbeat feels strongest).



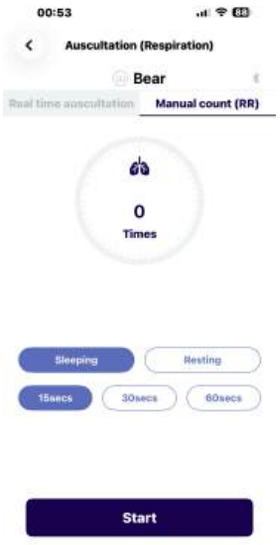
06

When the heart sound and graph are clear without noise, press the record button.



07

After measurement, touch "AI Analysis." If ideal (normal) results appear consistently, keep monitoring. If abnormal results persist for more than 5 days (measuring once a day), visiting a hospital is recommended.



08

One breath is counted each time the abdomen moves up and down while the pet is resting or sleeping. Touch the screen for each breath. Respiratory rate is an essential indicator for understanding your pet's health.



App Download

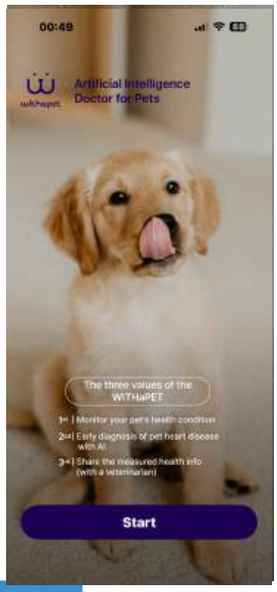
Android

iPhone

Vet Interview

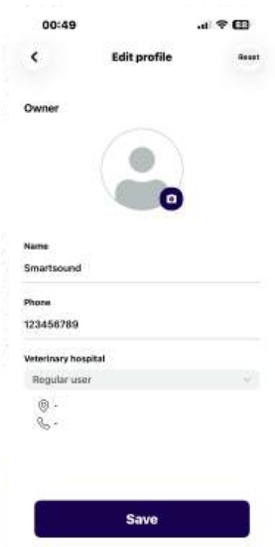
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withapet User Manual (Vet Clinic)



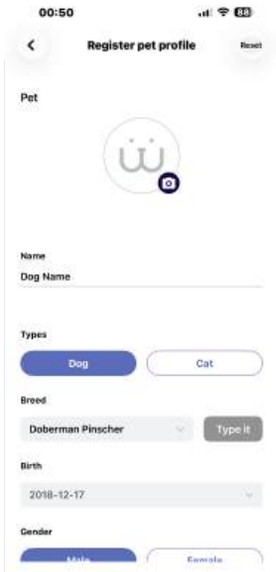
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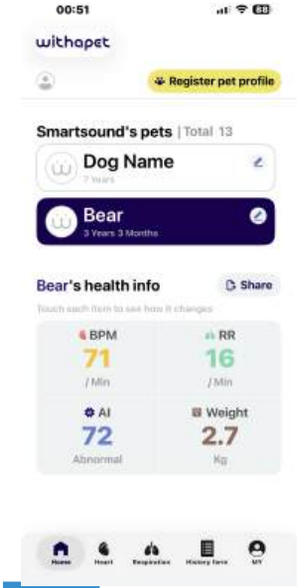
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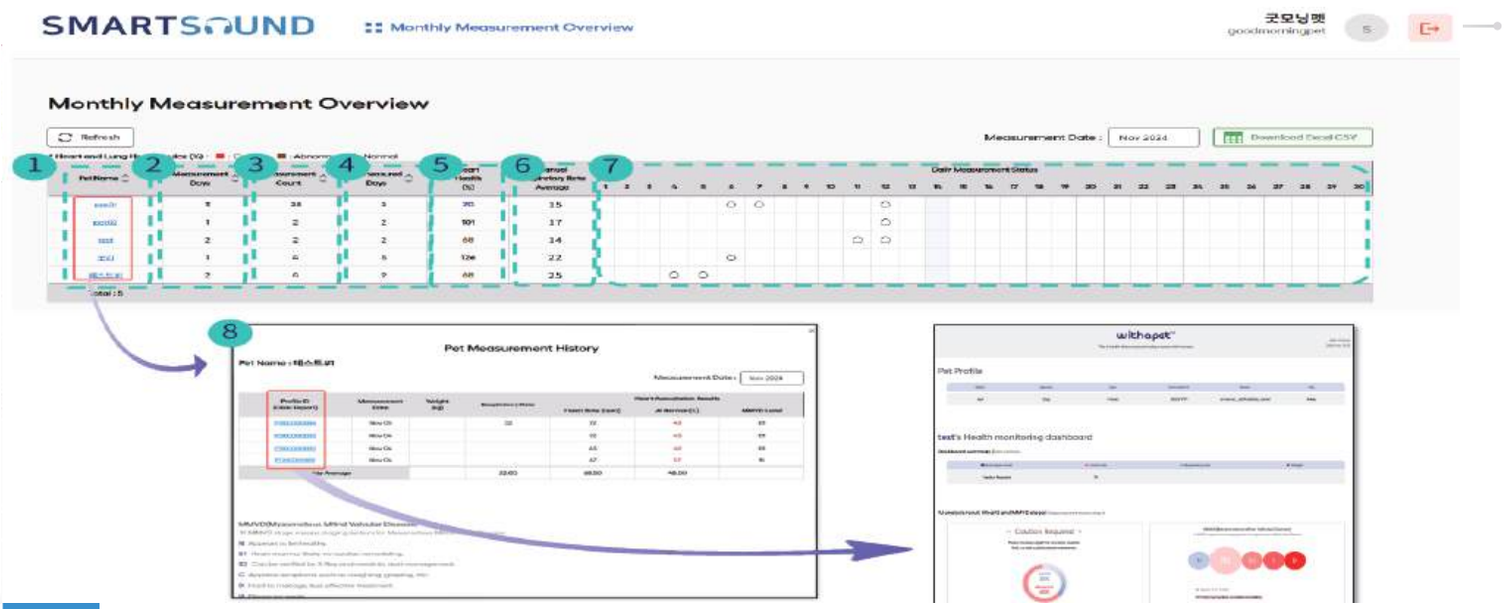
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05

Log in to the Portal to check measured data.
Data measured in the mobile app is automatically saved to the Portal when the user presses the save/AI button.
You can view all data for each pet. Clicking on specific data brings up an AI report.

AI Report: Allows you to play back auscultation sounds, check data trends, and print the page to provide to the guardian.

Dashboard Features: 1. Pet Name, 2. Days Measured, 3. Frequency, 4. Missed Days, 5. Heart Rate, 6. AI Average, 7. Respiratory Average, 8. Full Data Log, 9. AI Report.



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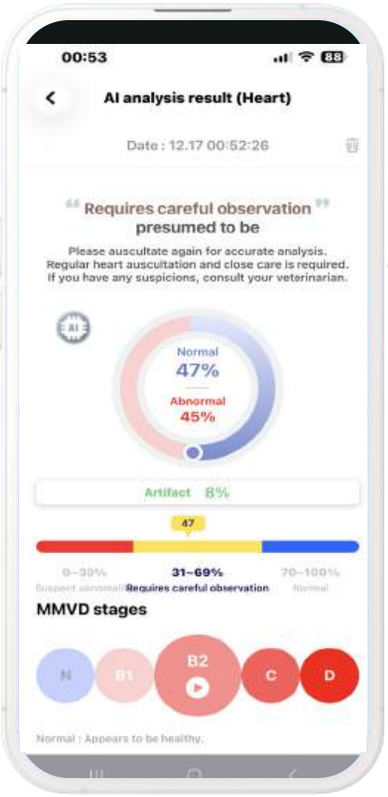
Vet Interview

How to Use Web Portal

Interview

withapet AI Analysis & Guide

Heart AI Result (Mobile App)



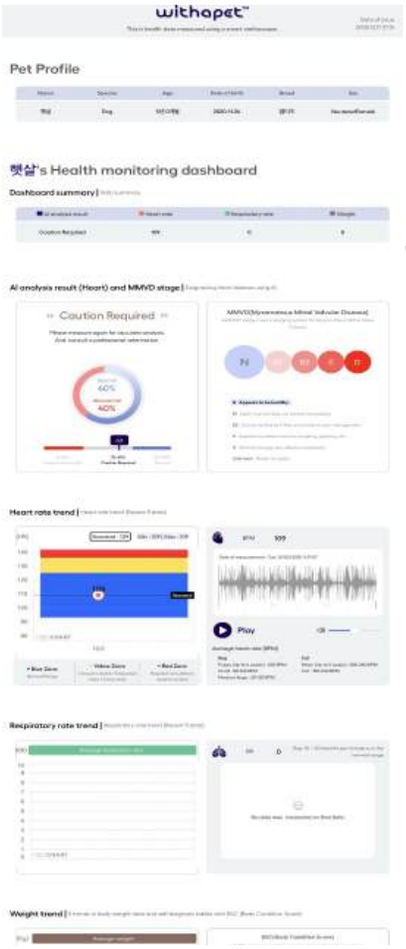
Normal
A high score indicates a high probability of normal heart sounds.

Abnormal
A high score indicates a high probability of heart murmurs.

Artifact
This refers to non-heart s ounds (friction, barking, etc.). If external noise exceeds 30%, re-measurement is recommended.

MMVD Stage
If MMVD valve disease sounds are detected, the circles for each stage will enlarge.

AI Health Report (Web Portal)



Profile
Pet Information
(Name, Age, Breed, etc.)

AI Heart Results
-AI Heart Analysis Results
-Auscultation Sound Playback Function
-Heart Rate Trends

Lungs(Respiratory)
-Respiratory Rate Trend Analysis
*Measuring your pet's respiratory rate at home is very important. One breath consists of the abdomen rising and falling while the pet is sleeping or resting. Visually observe this for 15 seconds, 30 seconds, or 1 minute, and calculate automatically by tapping the mobile screen.

Weight & Exam
Weight changes and basic health inquiry information are also recorded and managed.

All data measured at home is transmitted to the veterinary clinic selected in the mobile app.

Important Notice

- WITHaPET AI is a home healthcare AI for detecting abnormal sounds, not for medical diagnosis.
- **We recommend auscultation and analysis once a day.**
- **If "Abnormal" results (with AI confidence >30%) are detected for 5 consecutive days, consultation with a vet is recommended.**
- **If artifact sounds (external noise) is analyzed to be 30% or higher, re-measurement is recommended.**
- The more you measure, the more the AI accuracy improves.
- **You can play the recorded data to a medical specialist via earphones during future hospital visits.**



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