Tele-auscultation made mobile
Introducing a powerful tool for telemedicine

As an integral part of the physical exam, auscultation can now be conducted remotely using Eko’s wireless and mobile-connected digital stethoscope. Notes and annotations can be shared with the entire care team via Eko’s HIPAA-compliant Mobile App, Eko for Telemedicine dashboard, and EHR integrations.

“How it Works

Eko Core
The Eko Core is a digital attachment to the analog stethoscope. It is the first to enable seamless transitioning between analog and digital modes and the only stethoscope on the market to wirelessly connect to a mobile device.

Eko Mobile App
Bluetooth wirelessly connects the Eko Core to the Eko Mobile App. The user-friendly and HIPAA-compliant app enables heart sound visualization, sharing, saving, and electronic medical record integration anytime, anywhere.

Eko for Telemedicine
The Eko for Telemedicine custom platform allows specialists to hear and annotate patient heart sounds and phonocardiograms recorded remotely by a clinician.

“The Eko Core digital stethoscope and telemedicine platform will enable clinicians to more effectively monitor their patients’ heart health across communities, regions, and borders. With the Eko core platform, our physicians get the best of both worlds. A traditional device they are comfortable with and use every day, enabled with the ability to use it for telemedicine, remote-auscultation, collaboration, and education.”

Kyle Hall, Telehealth Coordinator, Nebraska Medical Center
Eko Core & Mobile App

**Mobile Stethoscope**

Eko Core is the first digital stethoscope attachment on the market to securely transfer heart sounds directly to a clinician’s smart phone or tablet.

**Wireless Connection**

Bluetooth Streaming provides real-time connection of Eko Core to the Eko Smartphone App without the unwieldy cords.

**Live Phonocardiogram**

The Eko for Telemedicine platform allows specialists to visualize heart sound waveforms as they are recorded by a remote clinician. Phonocardiograms can be used to identify relevant heart sound characteristics and are easily annotated for future reference.
The Central Dashboard

An Optimized Platform

Eko for Telemedicine is a cloud-based platform that allows patient heart sounds and phonocardiograms to be reviewed remotely by clinicians and specialists. Synchronous remote (real-time) auscultation is coming soon.

PDF Reports

Conveniently generate PDF auscultation reports that can be shared with referring GP’s or consulting specialists. The reports will hyperlink back to the associated recordings in the central dashboard.

EHR Integration

Integrate patient heart sounds and annotations with existing EHR, telemedicine, and care coordination systems so that patient data is accessible to the entire authorized care team.
Use Cases

Remote Clinical Consultations

Patients wait between 5 weeks and 3 months for an appointment with a pediatric subspecialist, according to the American Academy of Pediatrics. With Eko, excessive wait times for diagnoses, second opinions, and treatment plans are eliminated. Specialists can access patient heart sounds, waveforms, and medical records using the Eko Mobile Application in real-time or at their earliest convenience. Notes and annotations can be shared between referring physicians and specialists and saved via secure, cloud-based EMR and EHR integration.

Source: American Academy of Pediatrics

Reaching the Medically Underserved

Government estimates report 35 million Americans living in medically underserved areas. Patients in rural communities must travel an average of 56 miles to see a specialist. Eko aims to reduce costly and unnecessary trips to the cardiologist by permitting consultations and diagnoses to take place at a distance, allowing quality medical services to reach areas where they are not consistently available. Parents can be confident that their children are receiving an expert opinion without having to skip work, travel long distances, and pay for an echocardiogram.


Continuity of Care

The Journal of the American Medical Association found that the average PCP must coordinate care with 99 other physicians working across 53 practices. Using Eko, clinicians can embed the patient heart sound, waveform, interpretation, and referral rationale into the patient’s electronic medical record. Proper documentation improves the feedback loop across the care team and ultimately will have a large positive impact on care quality. An ER doc or PCP will have the ability to re-listen to heart sounds from many years prior.

Source: JAMA Internal Medicine 2011

Continuing Medical Education

Students and practicing clinicians can refine their auscultation skills anytime, anywhere by saving patient heart sounds and annotations for future reference. Eko’s cloud-based platform allows for convenient access to a library of heart sounds that can be played back and interpreted at your convenience. Annotations are easily generated into PDF reports to be shared via email for instructor review.

Source: Journal of General Internal Medicine 2008

By the Numbers

- Patients must wait between 5 weeks and 3 months for an appointment with a pediatric subspecialist
- Patients in rural communities travel 56 miles on average to see a specialist
- An average PCP coordinates care with 99 other physicians working across 53 practices
- 45% improvement in average accuracy of heart murmur detection due to repetitive learning

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