

Ayusynk- Smart Stethoscope

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Ayusynk is a compact module which can amplify heart and lung sounds when attached to a conventional stethoscope. Healthcare being the fastest growing industry in India's start-up ecosystem, and a lot of innovators are coming up with innovations that make healthcare more accessible and affordable. One such innovation is "Smart Stethoscope" developed by Ayudevices Pvt. Ltd. which converts conventional stethoscopes into a digital stethoscope. The technology was supported by the Biotechnology Industry Research Assistance Council (BIRAC), Government of India.



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Smart stethoscope module can be attached to the conventional stethoscope to make it digital. Ayusynk's advantages are way more than a standard stethoscope. The device enables noise filtering, sound amplification, recording and playback, visual representation as well as analysis of heart and lung sounds. This device is a low-cost solution for early detection of heart and lung diseases. So far more than 600 units of Ayusynk have been sold across the country.

Conventional stethoscopes used by majority of doctors require considerable training and concentration in order to identify the relevant sound patterns. Proper diagnosis requires effective auscultation, which can further help in early detection of potential heart and lung diseases. A lot of people living in smaller towns and rural communities in India do not have access to the best medical experts. Ayusynk smart device bridges the gap between rural population and expert physicians.

The innovation can be used in primary healthcare centres to record abnormal sounds which can be further sent to expert physicians to evaluate the possibility of an illness. The detailed sound recordings are stored and shared through app and can further be verified. The recordings are

stored securely in cloud database and can be analysed by artificial intelligence (AI) for their accuracy. Compared to the other electronic stethoscopes available in the market is reasonable, this device is effective in detection of cardiac and pulmonary illnesses.

Healthcare innovations like Ayusynk helps in improving healthcare access in rural areas, and improve the overall efficiency of healthcare delivery systems.