

Japan begins research on vitals measurement headset

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A prototype in development can allow healthcare providers to check patient biometrics



Kyocera Corporation and Tokyo Medical and Dental University (TMDU) announced a joint research project to develop a wireless headset that can remotely monitor high accuracy patient biometrics, such as blood oxygen saturation (SpO₂). The Department of Cardiovascular Medicine of TMDU Medical Hospital began preparing for clinical research of the wearable headset system in May 2020.

A prototype in development can allow healthcare providers to check patient biometrics, such as blood oxygen saturation (SpO₂) during rehabilitation in real time while communicating over standard wireless phone networks. It also allows medical professionals a more thorough evaluation and shortening the time of medical care.

The new headset system incorporates bone-conduction audio technology instead of a traditional microphone and loudspeaker. This technology helps cancel unwanted ambient noise while letting patients move their limbs freely during exercise. Future development goals include miniaturizing the headset to allow convenient, real-time biometric monitoring of patients during at-home recuperation.

Kyocera Corporation and TMDU will continue the trial operation in Japan to verify the effectiveness of remote medical care and rehabilitation for patients and examine the system's potential for treating other ailments.