

**Proceedings of the 11th Interdisciplinary
International Symposium on**

**Energy, Environment, Health and Visual
Communication
(INFOFEST 2021)**

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International Symposium on
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Communication
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Organised by

**Sree Ayyappa College (TDB)
Eramallikkara**



in association with

**Institution of Electronics and Telecommunication Engineers
(IETE)**



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A Review Of Wearable Antennas For Biomedical Application

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Abstract—Biomedical telemetry has garnered a lot of attention as the healthcare business has progressed. This technology currently allows for remote monitoring of a patient's physiological signs, which eliminates the need for traditional hospital appointments or follow-up routine check-ups. Wearable medical devices are crucial for patient monitoring via wireless telemetry. Most wearable electronics applications use various types of antennas to sense, retrieve, and exchange data wirelessly to and from a host device or an IoT gateway these days. So the antenna is the most important component of a WBAN since it facilitates wireless communication, which includes in-body, on-body, and off body communication. A WBAN establishes a wireless communication channel by connecting sensors, actuators, and IoT nodes on the human body, on clothing, or beneath the skin. Wearable antennas can be used to monitor vital signs, cardiac pacemaker, oxygen levels, cochlear implants and stress levels in persons of various ages, athletes, and patients. Antennas are designed to meet the needs of the wearable device in terms of bandwidth, efficiency, electrical performance, Polarization effects, size, and application. Micro-strip antennas, printed dipole, monopole, printed loops, slot antennas, and planar inverted-Fs (PIFAs) antennas are only a few of the most often used antenna technologies. Antenna design, too, is a complicated process that necessitates high-end simulation software and skilled RF antenna designers. The purpose of this review article is to provide an overview of current wearable antenna design in the medical profession.