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## Chapter GSM Enabled Patient Monitoring System Using Arduino Application for Cardiac Support

## GSM Enabled Patient Monitoring System Using Arduino Application for Cardiac Support

July 2023

DOI: [10.1007/978-3-031-35078-8\\_24](https://doi.org/10.1007/978-3-031-35078-8_24)

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This paper focuses on designing a system to provide the patients with supplemental oxygen to prevent hypoxia for and covid patient. The decrease of oxygen in the tissues in patients with heart diseases, lung related-diseases and elderly people result in hypoxia. During this covid-pandemic, number of the patient died due to poormonitor system and mainly due to insufficient of the oxygen. The main goal of this article is to develop a system to deliver oxygen supplement automatically to patients when required. This system is portable, does not prevent the patients from their life style and gives freedom of mobility for patient.

This paper has been published in hospital and also in houses for patients with not so critical condition to be monitored. The system is designed to read the heart rate in the body using a heartbeat sensor. As the heart-rate decreases eventually the SpO<sub>2</sub> levels in the organs start diminishing thus leading to hypoxia.

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Join for free [gs already have an account](#) This system also uses GSM to communicate with others in case of emergency. The system is provided with a buzzer to intimate the patient in case of emergency. Keywordshypoxiasupplement oxygenheart rate sensorSpO<sub>2</sub>levelGSM

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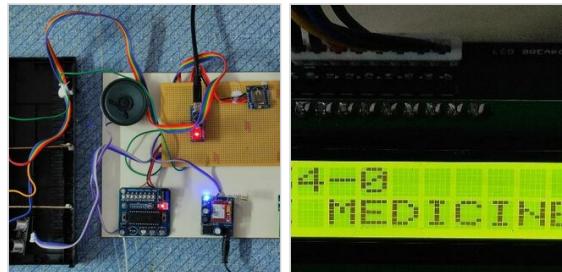
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As in our day-to-day life, every one of us are affecting with some Infectious Disease. Human body temperature is of great interest in medical practice and diagnosis. The normal human body temperature range is usually between 36.5 °C and 37.5 °C (97.7 °F-99.5 °F). A person's body temperature depends o...

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