## • "Low-Cost Health Monitoring System: A Smart Technological Device for Elderly People"

Shaown, T., & Mollah, M. S. (2021). In Proceedings of Sixth International Congress on Information and Communication Technology (pp. 851–860). Springer.

This paper introduces an IoT-based system designed to monitor the health of elderly people. The authors focus on creating a **low-cost and scalable** solution that helps monitor heart rate, temperature, and other vital signs in real-time. This system can reduce the need for frequent doctor visits and provide instant feedback in emergencies, which is a great step toward improving healthcare for aging populations.

## • "Design, Development and Performance Analysis of a Low-Cost Health-Care Monitoring System"

Sundararajan, V., & Suresh, S. (2019). IEEE Access, 7, 8745598.

This research focuses on creating an affordable, portable health monitoring device that tracks various metrics, including heart rate. The goal is to offer a **cost-effective** solution for continuous monitoring, especially for chronic disease patients. The system is designed to empower users to monitor their health regularly without the financial burden of traditional medical devices.

- "IoT-Enabled Low-Cost Fog Computing System with Online Machine Learning for Accurate and Low-Latency Heart Monitoring in Rural Healthcare Settings"
- \*Maneshti, H., Dadashi, M., & Rostami, K. (2023). arXiv preprint arXiv:2302.14131. This paper discusses the use of **IoT** and **fog computing** to create a heart rate monitoring system for rural healthcare settings. It highlights how **machine learning** can be used to process heart rate data locally, making the system more **accurate** and **responsive** while reducing reliance on internet connectivity. This approach could be especially useful in areas where connectivity and access to healthcare professionals are limited.
- "Towards Remote Healthcare Monitoring Using Accessible IoT Technology"

  Sundararajan, V., & Suresh, S. (2020). Biomedical Engineering Online, 19(1), 1-15.

  The authors look at how IoT technology can be leveraged for remote healthcare monitoring. They emphasize the importance of creating low-cost solutions for real-time health data collection, especially in underdeveloped and rural regions. The paper proposes using passive sensors to measure environmental factors that affect health, such as air quality and temperature, in addition to direct health metrics.

## • "Healthcare Monitoring Using Low-Cost Sensors to Supplement and Enhance Traditional Healthcare Systems"

Sundararajan, V., & Suresh, S. (2023). Sensors, 23(4), 2139.

This review focuses on the use of **low-cost sensors** for continuous health monitoring, discussing the challenges and breakthroughs in making healthcare more **affordable** and **accessible**. The authors emphasize how these sensors can enhance traditional healthcare systems by offering real-time insights, improving patient outcomes, and reducing the need for costly medical interventions.