**Personal Sensors for Remote Patient Monitoring**

Maja Nose Mijanović, Anton Jošt, Janja Blatnik, Matej Breznar, Jure Polak, Lucija Retuznik Pikl, Radko Komadina

College of Nursing, Celje

**Astract**

During the COVID-19 epidemic, hospitals, already the weakest link in patient management in terms of capacity and staff, were forced to deal with an unexpected increase in the number of patients.

Monitoring peripheral oxygen saturation with pulse oxymetry enabled an approximate distinction between patients that could be managed at home and those that required hospital treatment.

By using pulse oxymeters, connected to the patient's smartphone, we reduced the hospitalization rate of COVID-19 patients by approximately 10%. Tech-savvy patients at risk for respiratory deterioration were equipped with these devices, enabling remote monitoring by hospital-based physicians.