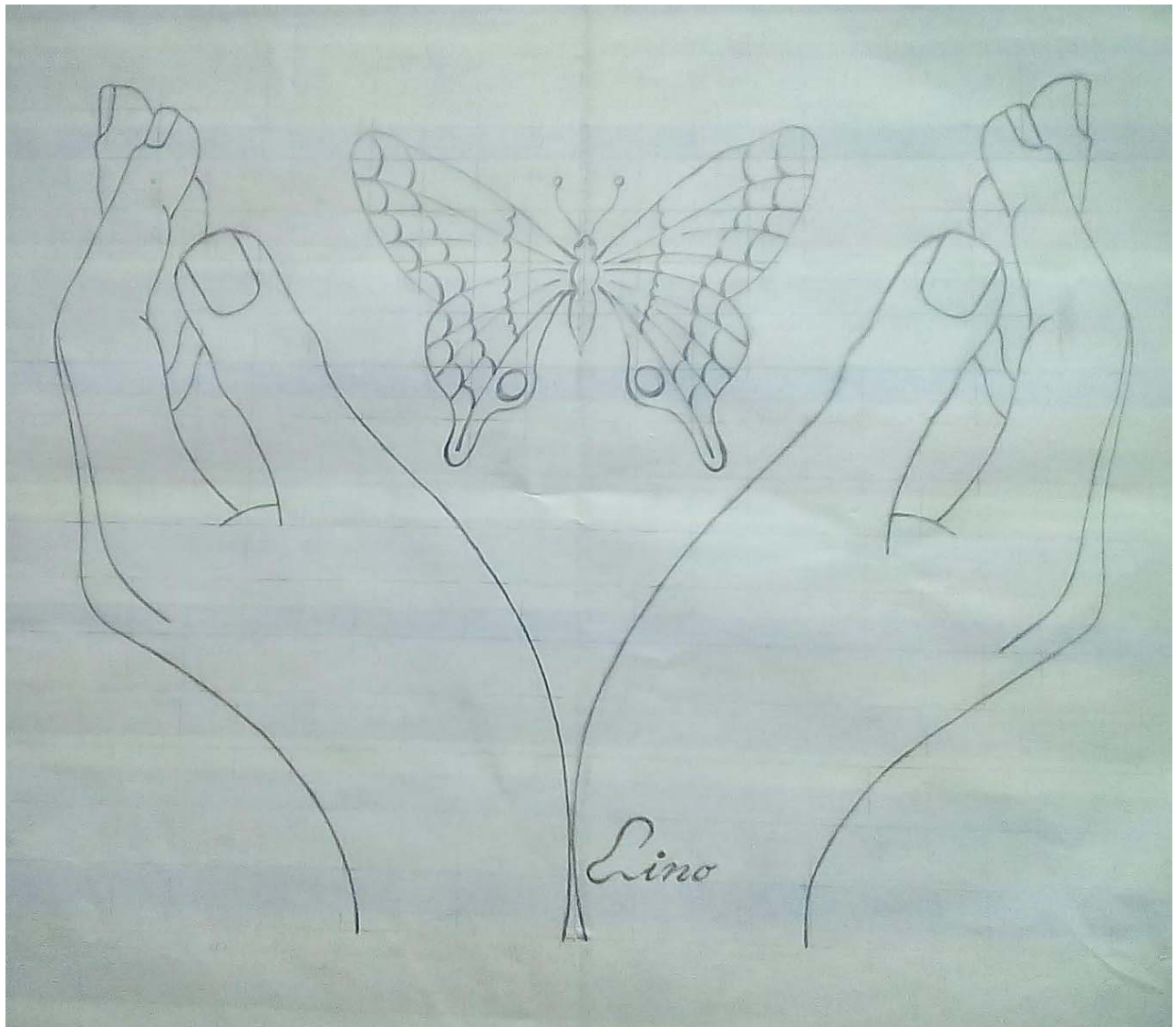


# INTERNATIONAL JOURNAL OF MEDICAL AND NURSING APPROACH (IJMNA)

Volume 2 (issue 2)

June 2021



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Editor: Centro Copie s.r.l.

Via Appia Lato Itri 37/41

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# **OMNIACARE PROJECTS.**

## **TELEMEDICINE IN THE CARE OF THE ELDERLY PATIENTS.**

### **AUTOMATIC HRV ANALYSIS IN TELEMEDICINE.**

**M. Pistoia<sup>1</sup>, P. Casacci<sup>1</sup>, I. Masci<sup>2</sup>, S. Taurisano<sup>3</sup>, N. Marchitto<sup>3</sup>, S. Andreadi<sup>2</sup>, L. Barsi<sup>2</sup>, A. Martynenko<sup>4</sup>,  
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**KEYWORDS: OMNIACARE, ELDERLY PATIENTS TELEMEDICINE, HRV, CV RISK.**

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#### **ABSTRACT**

New opportunities arise in Healthcare and Medicine field thanks to the increasing potential to measure physiological parameters through wearable devices and to the benefits provided by the cloud computing: large bulk of data can be continuously collected and processed in nearly real time. Such huge amount of information poses a new challenge for physicians, since the amount of data which is likely to be processed by an individual is small compared to the data flow which reaches the system. This limitation can be overcome by automatizing the data process: by means of ad-hoc algorithms, the anomalies can be easily detected, and the doctors can be promptly notified so that they are enabled to examine the data and produce a diagnosis.

In this work, the OMNIACARE platform has been utilized in order to develop an automatization of the analysis process.

A new software has been implemented in OMNIACARE by which the ECG data can be processed on the cloud in real time, the RR patients' slots can be provided for 24 hours, and the initial HRV analysis can be performed automatically. If anomalies are detected, the doctors can check manually the HRV slots, possibly modify some of the processing parameters and, based on their experience, ask for a further investigation.

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