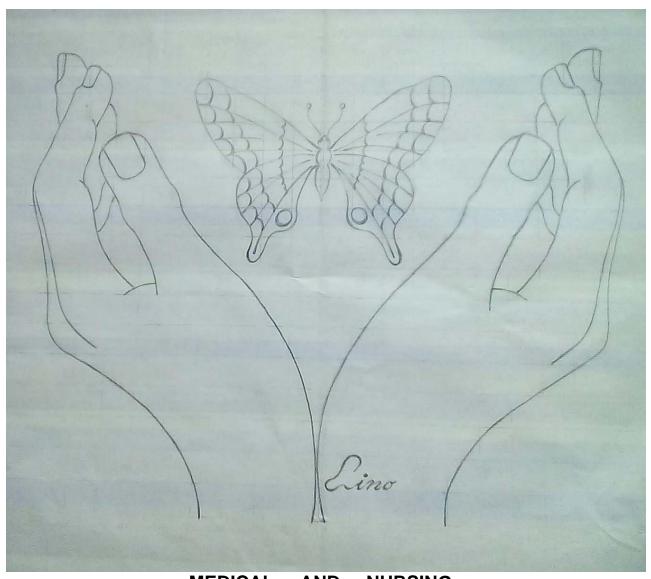
INTERNATIONAL JOURNAL OF MEDICAL AND NURSING APPROACH (IJMNA)

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INDICE GENERALE

| Role of Oral Anticoagulant Treatments in patients with Systemic Lupus | |
|---|--------|
| Eritematosus and Anti-Phospholipid Antibody Syndrome. | pg 04 |
| Cardiovascular risk evaluation during tretment with Flebuxostat. | pg. 08 |
| A rare case of Atrial fibrillation in young subject due to overtraining. | pg. 15 |
| Effects of Sars-Cov-19 treatments in patients with Hypertension: A pilot study. | pg. 19 |
| A strange case of Electrocution | pg. 23 |
| Nutraceutical treatments for Hypercholesterolemia in dialysed patients. | pg. 29 |
| New device for the remote control in elderly patients. | pg. 33 |
| OMNIACARE PROJECTS. Telemedicine in the care of the elderly patients. | |
| Automatic HRV Analysis in telemedicine. | pg. 39 |

Cardiovascular risk evaluation during tretment with Flebuxostat.

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ABSTRACT

Background: Numerous clinical and epidemiological studies have shown an association between the levels of uricaemia and cardiovascular diseases. These studies confirmed that hyperuricaemia has a pathophysiological responsibility in cardiovascular risk. "Febuxostat" represents the optimal therapeutic treatment to reach target uric acid values 6 mg / dL. The Italian Medicines Agency does not recommend the use of Febuxostat in patients with previous cardiovascular diseases, because, according to preliminary studies, it could increase the incidence of cardiovascular events. Through a systematic review of the literature, it was proven that the benefits of the drug outweigh its risks. The inhibition of xanthine oxidase favoured by the drug allows to contain the pro-oxidant and pro-atherogenic activity of uric acid, reducing the risk of cardio- and nephro-metabolic damage. Aim: This study aims to evaluate, through the HRV analysis, the ability of the autonomic nervous system to modulate the cardiovascular system during uricemic treatment with the drug febuxostat and to identify the main needs of nursing care in the prevention of hyperuricemia, the patient care and health education. Materials and Methods: In the Department of Surgery of the Alfredo Fiorini Hospital we have enrolled 12 patients (6 F and 6 M) with mean age 68.8 ± 4.7 years old. All the enrolled patients were affected by hyperuricaemia and laboratory exams underlined uricaemia > 7 mg/dl. All patients where admitted for cardiac risck evaluation before surgical treatment. **Protocol**: After 10 rest minutes we recorded a digital EKG (cardiolab xai-medica) for 5 minutes. We have repeated the digital EKG recorded afther a week of Flebuxostat treatments. All data were analyzed with a specific software for HRV linear analysis in the time and frequency domain. Statistical analysis was performed with SigmaStat 3.5 software for Windows. Paired T-test for quantitative variables were used to compare basal conditions vs effect of the treatment in the same patients. Statistical significance was fixed at P < 0.05. Results: Results: We observed no significant differences in R-R interval, in Tpeak-to Tend index and Qtc in the treated group. The absence of any statisticcaly signignificat variations confirm the safety of Flebuxostat in old patients. The results are expresses as mean \pm SD. **Discussion and Conclusions**: Analysis of the data allows us to highlight that treatment with Febuxostat does not cause a statistically significant change in the main arrhythmic indices. In relation to the autonomic tone, treatment with Febuxostat determines a reduction of the orthosympathetic tone and a simultaneous hyperactivity of the parasympathetic tone with a cardioprotective effect. Despite the limited sample size, it is possible to assert that there is no correlation between cardiovascular risk and hypouricemic treatment with febuxostat.

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