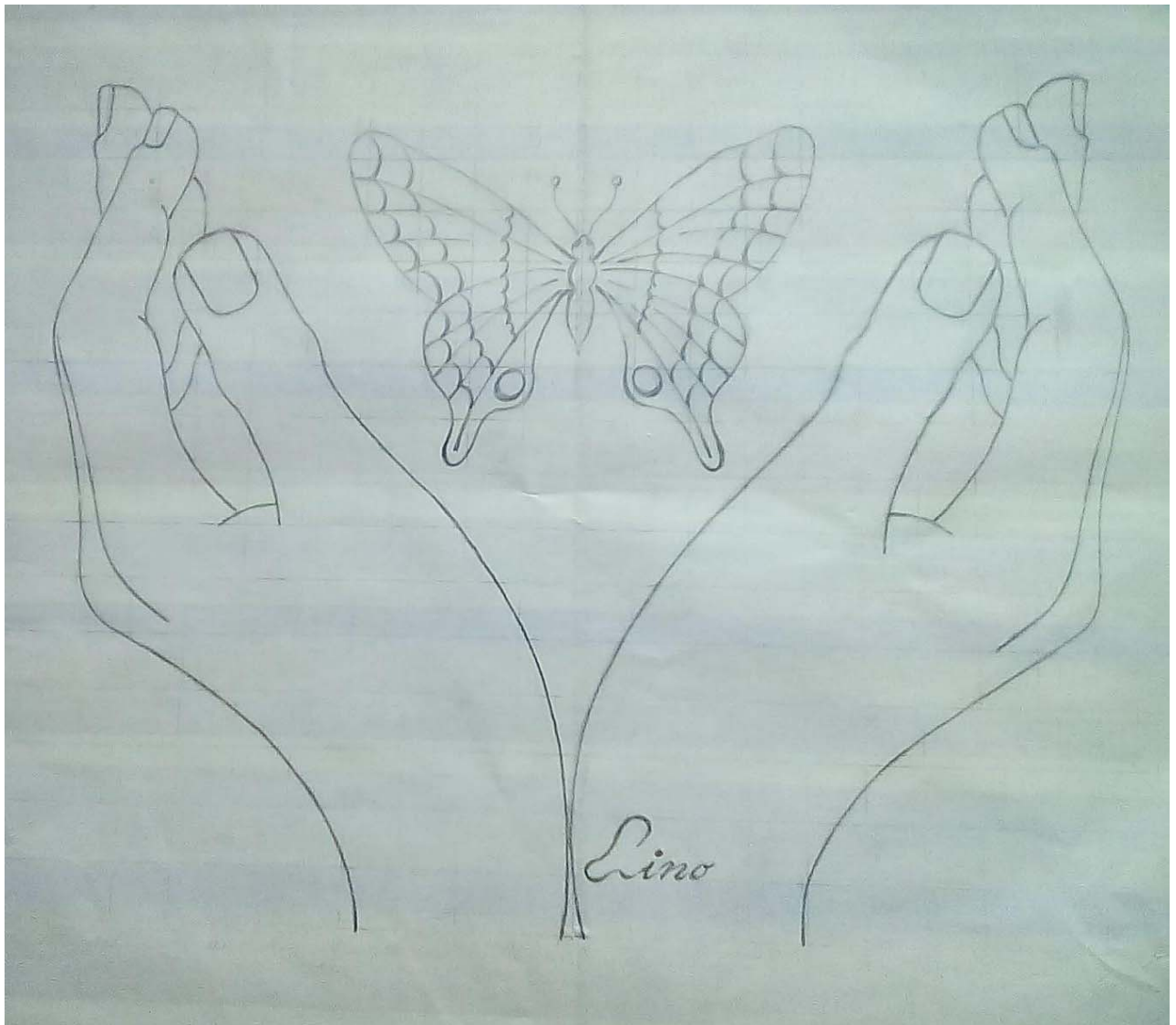


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EFFECT ON GLYCEMIC VALUES OF TREATMENT WITH POLIMAG IN PATIENTS WITH NEUROPATHY: MEDICAL AND NURSING ASPECTS.

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KEY-WORDS: neuropathy, polymag, SEMMES WEINSTEIN test.

ABSTRACT

AIM: the aim of the study is to evaluate the effectiveness of POLIMAG in the treatment of peripheral neurological complications of type II diabetes mellitus or diabetic neuropathy of the lower limbs compared with non-diabetic neuropathic subjects. **Materials and Methods:** 30 subjects were enrolled in our pilot study. In relation to age and difficulties to coming to the hospital or dedicated clinic, the pilot study was completed on 10 patients (5 women and 5 men) with an average age of 77 years (with a minimum age of 65 years and age maximum of 89 years) suffering from lesions resulting from neurological complications in the lower limbs for an history of type II diabetes mellitus. All enrolled subjects voluntarily undergo to evaluation with Semmes W. test during hospitalization and subsequent during the follow-up, before and after treatment with POLIMAG. Using a non-invasive method based on the measurement of skin sensitivity using a thin wire (Semmes W. test), the ability to discriminate the pressure performed with a 10 g thin wire before (T0) and after approximately 1 month of treatment (T1) was evaluated.) and the glyceimic variation induced by the treatment was also evaluated 1 hour after taking the drug and the main meal (glycemia evaluated in mg/dl). All patients provided informed consent to the processing of personal data. **Results:** the analysis of the data allows us to highlight an improvement in diabetic neuropathy after 1 month of treatment but the grade of the modification do not underline a statistical significance. **Discussion:** From the data in the table, a variation in skin sensitivity emerges assessed using the Semmes W. test but the grade of variation is not statistically significance. The

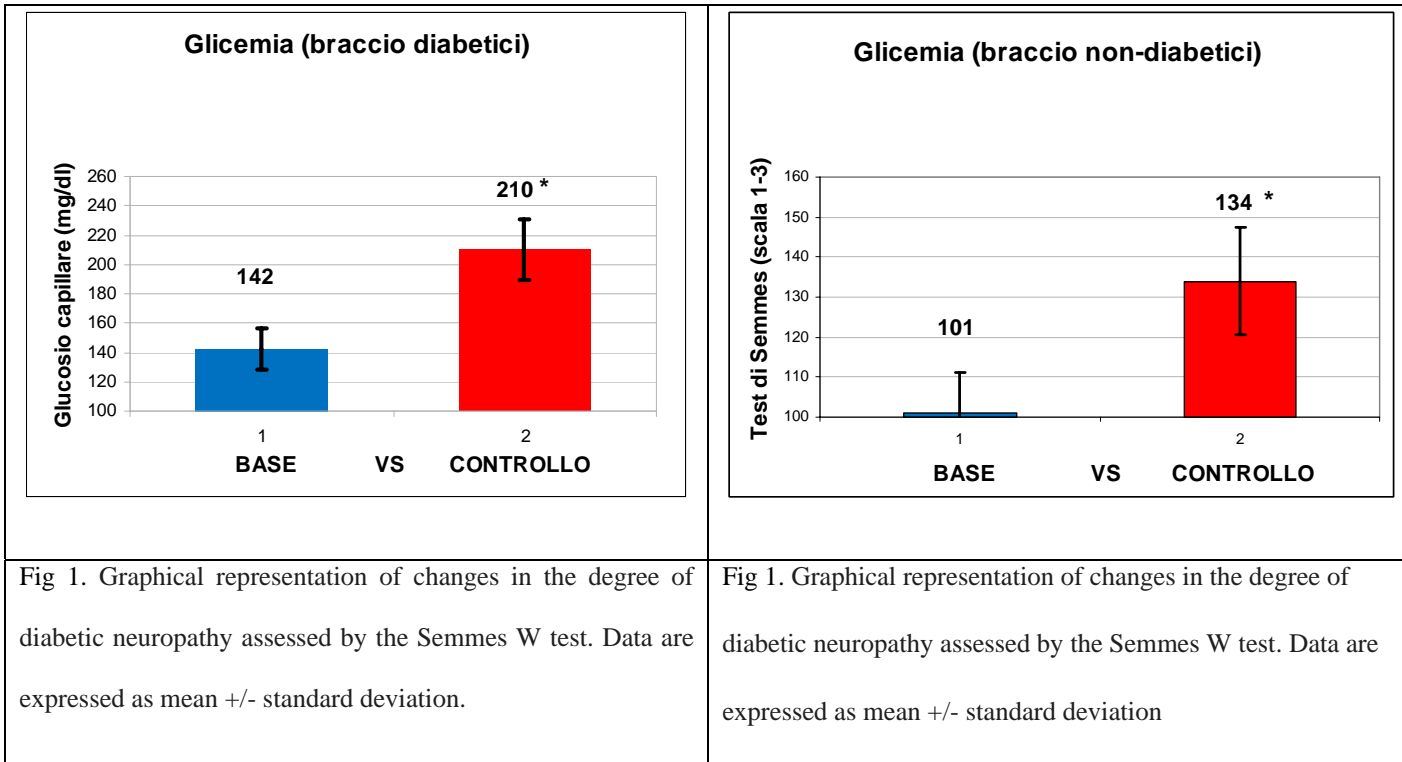
statistical analysis allowed us to highlight a non-statistically significant variation in the degree of diabetic neuropathy at 1 month. However, a glycemie variation was highlighted 1 hour after the main meal both in the group of diabetic patients and in the group of non-diabetic patients. This variation is presumably linked to the presence of sweeteners (sucralose). For the statistically significant variations in glycemie values, it is considered appropriate to recommend a re-evaluation of treated patients with nutraceuticals containing sweeteners (Sucralose) in order to exclude possible cases of pre-diabetes mellitus conditions or the evolution towards glycemie decompensation in diabetic patients in standard treatment . It is therefore advisable, on a prudential basis, to re-evaluate blood sugar values in the basal condition using a glycemie diary and after 2 hours from the treatment in order to re-evaluate the treatment and start a hypoglycemie therapy with glyphozines or optimize the insulin therapy increasing the dosages. **Conclusions:** The pilot study we carried out allowed us to highlight an improvement in the degree of diabetic neuropathy assessed by the Semmes w test. during treatment with polimag. The low compliance of patients with follow-up and treatment after only 1 month of therapy reduced the study sample compared to enrolled patients. Further studies are necessary to re-evaluate the hyperglycaemic effect undelined after 1 hour in association with the administration of POLIMAG presumably induced by the presence of sweeteners (sucralose).

TABLES

	Base + ds	Control + ds	Probability (P)
Semmes W. (10 gr)	2,800 + 0,422	2,500 + 0,527	P= 0,081
Diabetici (glicemia in mg/dl)	142,583 + 51,706	210,750 + 34,575	P = 0,005*
Non Diabetici (glicemia in mg/dl)	101,800 + 11,998	134,400 + 9,276	P < 0,001*

Tab. 1 Descriptive analysis of data relating to the treatment of diabetic neuropathy with POLIMAG. Data relating to Semmes W. test are expressed as mean value +/- Standard Deviation. The probability is considered significant only if P < 0.050.

FIGURES



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