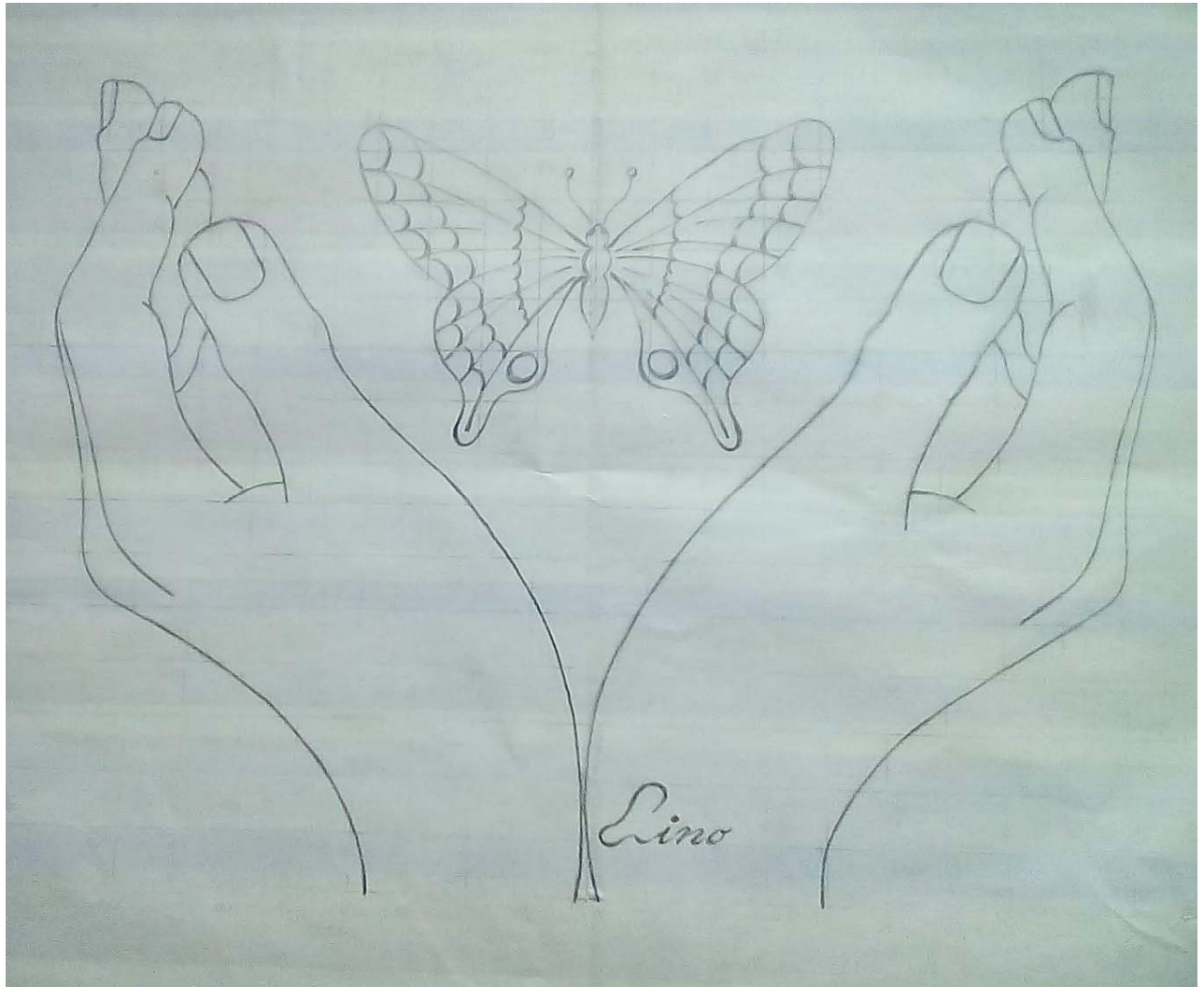


INTERNATIONAL JOURNAL OF MEDICAL AND NURSING APPROACH (IJMNA)

ISSN: 2704-9507

Volume 9 (issue 1)

June 2025



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International Journal of Medical and Nursing Approach (IJMNA)

ISSN: 2704-9507

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SAFETY AND EFFICACY OF NEUROTRIX^(R) IN PATIENTS WITH DEPRESSIVE SYNDROME: MEDICAL AND NURSING ASPECTS.

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KEYWORDS: GDS medical aspect, nursing aspect.

KEY-WORDS: depressive syndrome, HRV, aging.

ABSTRACT

Aim: The aim of our study is to evaluate the efficacy and cardiovascular safety of Neurotrix® for the treatment of secondary depressive syndrome. **Materials and Methods:** 13 subjects affected by secondary depressive syndrome were enrolled in our study. All subjects enrolled, aged over 65 years, voluntarily undergo to screening for depressive syndrome and follow-up with a non-invasive method based on the assessment of heart rate variability behind the non linear analysis, using digital electrocardiographic recording lasting about 250 beats. All patients consented to perform the screening for depressive syndrome and to process the personal data. After that the patients enrolled in the study underwent a digital electrocardiographic evaluation lasting 250 beats with a 5-lead medixai electrocardiograph. **Results:** Data analysis showed a statistically significant change in GDS value after 1 month of therapy with Neurotrix® associated with standard treatment, confirming the efficacy of the association therapy. No statistically significant changes were observed in the parameters related to the study using nonlinear dynamics of neurovegetative tone (SD1, SD2, alpha-1, alpha 2 and Entropy). **Discussion:** The data in the table show that therapy with Neurotrix® associated with standard treatment determines a statistically significant reduction in GDS values without any statistically significant change in the parameters related to neurovegetative activity. **Conclusions:** The pilot study we conducted allowed us to exclude the possibility of an increase in cardiovascular risk in patients undergoing treatment with Neurotrix® associated with standard treatment for depressive syndrome, for the absence of statistically significant

changes in the parameters related to neurovegetative function. Currently, the size of the sample under examination is not sufficient to make a reliable assessment that can be extended to the entire population.

Table

	BASE $\pm$ DS	CONTROL $\pm$ DS	Probability (P)
GDS	16,214 $\pm$ 2,133	7,857 $\pm$ 1,539	<0,001
SD1	10,785 + 4,419	20,323 + 5,999	0,340
SD2	22,477 + 15,379	27,792 + 22,364	0,401
ALFA1	0,969 + 0,355	0,994 + 0,252	0,826
ALFA2	0,456 + 0,137	0,499 + 0,118	0,403
ApEn	1,014 + 0,408	1,017 + 0,151	0,930
SampEn	1,633 + 0,408	1,708 + 0,517	0,614
ShanEn	3,069 + 0,377	2,938 + 0,696	0,454

Tab. 1 Descriptive analysis of data relating to the NONLINEAR ANALYSIS of neurovegetative tone and GDS values before and after treatment with Neurotrix® associated with standard treatment for depressive syndrome. The probability is considered significant only if $P < 0.050$.

Reference:

Abstract created from the synthesis of the experimental section of the thesis. **Triolo Tommaso** e-mail: triolo.1953786@studenti.uniroma1.it

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