

P03-542

COMPUTER ANALYSIS OF NON VERBAL BEHAVIORAL PARAMETERS IN UNIPOLAR MAJOR DEPRESSION

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Background and aims: Beside the interpretation and processing of content of communication, an important part of psychiatric diagnosis is made on behavioral signs and symptoms. While the semantic assessment of the content of thinking through communication was enriched by the development of several psychopathological scales, schedule and structured or semi-structured interviews the assessment of non verbal parameters remains uncovered. Our aims was to analyses the non verbal parameters, by an automatic system conceived by Dr. Enatescu et colab., in patients with mood disorders.

Methods: The instrument we used are: original traductors, systems of calculation and programming belonging to the artificial intelligence which create new pattern of representation of the gait, gesture, sonorous background of the speech, the dynamic of the writing which can be represented or through a matrix or in a n-dimensional space on specific clusters or to some human typology or to some psychical disorders.

Results: The non verbal parameters processed by computer were sensible altered along with switching in the depressive states of subjects. The informatics data has had both diagnostic value and screening value for the course of unipolar depression.

Conclusions: We demonstrate that there is the chances for a new semiology which have objective paraclinic value for psychiatry field of automate analyses, nonverbal behavior parameters having the name "Extraverbale Analysis".