



05-2011

## ES Complex clinical investigation

**V. G. Alexeev and Dr. L. V. Kuzneko**, Bioimpedance application in Selective serotonin reuptake inhibitors (SSRIs) treatment monitoring. Botkin Hospital 2006

### Method:

Fifty four subjects (Age  $54 \pm 16$  and 38 women) diagnosed with major depression disorder by psychiatrist of the Botkin Hospital according to the DSM-IV were recorded with the EIS System before undergoing anti depressant SSRI treatment.

Then, the SSRI treatment follow-up was undertaken on one hand with the bioimpedance measurements and on the other hand by the symptoms / responses each 15 days during 60 days.

### Results:

The findings indicate that there were a significant positive correlations between the electrical conductivity measurement of the pathway between the 2 forehead electrodes and the treatment Response at D+30 ( $\rho = 0.484$ ,  $p < 0.001$ ) and D+45 /+ 60 ( $\rho = 0.557$ ,  $p < 0.001$ ).

The findings indicate that there were a significant positive correlations between the electrical dispersion of the pathway between the 2 forehead electrodes and the treatment Response at D+45 ( $\rho = 0.709$ ,  $p < 0.001$ ) and D+60 ( $\rho = 0.804$ ,  $p < 0.001$ ).

