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## Some biochemical parameters and their relation with elevation of ovary tumor marker – our experience

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**Introduction:** Along with the conventional methods for diagnostics and treatment, holistic-personalized medicine consolidates all scientifically validated alternative methods of treatments and healing. Holistic approach uses natural products for healing.

**Aim:** The aim of the paper is to present the relation that we found between ovary tumor marker CA-125 and some biochemical parameters.

**Materials & Methods:** 130 females were included in the study, with the minimum age being 24 years and maximum 79 years. Mean age was 45.42±13.12yrs. Laboratory analysis of female patients was statistically analyzed. Patients were divided into two groups: group with level of CA-125 within normal range (NR value: 0–35 U/mL), and patients having elevated levels of CA-125 (EV value: over 35 U/mL). None of the patients were diagnosed with ovarian tumor. All of patients were recruited from the Center for Integrative Procedures and Supplements “Dr Dunjić”, Belgrade. Holistic-personalized approach in patients healing was performed in the center and statistical analysis was done by using the Statistical Package for the Social Sciences (SPSS).

**Results:** Numerous biochemical parameters have shown statistically significant difference between two groups examined—NR vs. EV of CA-125. Prolactin was 390.19±20.36 vs. 718.0±18.37; p=0.045; df=17. Cortisol level was 485.95±16.7 vs. 1.100,3±91.8; p=0.001; df=32. Liver enzyme Aspartate Aminotransferase (AST) level was 22.8±12.6 vs. 40.0±16.1; p=0.047; df=23. Liver enzyme gama-GT was 19.11±3.48 vs. 55.5±6.16; p=0.025; df=17. Tumor marker alpha fetoprotein was 3.8±2.2 vs. 8.65±1.34; p=0.013; df=13. Level of oxidative damage marker 8-hydroxy-2'-deoxyguanosine (8-OHdG) was 17.64±5.8 vs. 20.25±6.8; p=0.007; df=6. Vitamin D was higher in NR group, but did not show statistical significant difference between two groups examined—53.42±22.5 vs. 41.9±11.0; p=0.173; df=77.

**Conclusion:** These finding also point that imbalance in the human body, which is represented with CA-125 elevation, can be accompanied with numerous biochemical changes. That is true for hormones (i.e. prolactin, cortisol), AST, gama-GT, alpha fetoprotein and 8-OHdG. However, the clinical importance of these findings requires further research.

### Biography

Slobodan Dunjić is Medical Doctor with a Master's of Science in the field of Rheumatology. He is Founder of the Center for Integrative Procedures and Supplements Dunjić, based in Belgrade, Serbia, which is primarily oriented towards integrative and personal-holistic approach in healing the patients suffering from various diseases. He has published more than 25 papers in various national and international journals. He strongly believes that we need to treat a person suffering from diseases rather than the disease itself.

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