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Influence of "Antiaging+Antioxidant" product on the oxidative stress of third molar extraction

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Background. It was proven that some herbs have antioxidant effects, but less is known about the antioxidant effect of some plants combinations, in the third molar extraction.

Objectives: The objective of the study was to evaluate the influence of "Antiaging+Antioxidant " (PAA) product on oxidative stress of third molar extraction.

Methods: Selected subjects (N=24), with the indication of the third molar extraction, were randomly divided in three groups: control (C=8) without treatment; who received PAA 21 days (AA21=8); and who received PAA 42 days (AA42=8) before the third molar extraction. The analyzed indicators were glutathione peroxidase (GPO) and malondialdehyde (MDA).

Results: Following PAA therapy, GPO and MDA were significantly reduced compared to C: most intense after AA42 ($p = 0.03$ for GPO and $p = 0.01$ for MDA) than after AA21 ($p = 0.05$ for GPO and $p = 0.05$ for MDA). Difference between PAA21, respectively PAA42 influence on GPO and MDA was not significant. Differences between AA21 and AA42 were significantly reduced for GPO ($p = 0.05$) and MDA ($p = 0.05$).

Conclusions: 1) Under the influence of PAA, GPO and MDA were significantly reduced, more intensively for AA42 compared to AA21. 2) PAA action on GPO and MDA was similar. 3) The PAA influence on GPO and MDA was increased after surgery. 4) We consider that the use of PAA, especially that 42, might be useful in the extraction of third molar intervention, by modulating the oxidative stress effect.

Key words: oxidative stress, glutathione peroxidase, malondialdehyde, third molar extraction

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