

## Investigation of the levels of blood MDA, GSH and NO in Alzheimer

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The focus of this dissertation is the research of MDA, GSH and NO levels in the blood of Alzheimer patients. 15 healthy individuals and 15 Alzheimer patients living in Kars between the ages 65 to 79 were selected for the dissertation. Before taking blood samples from patients who were diagnosed with Alzheimer at Kafkas University Medicine School Neurology Center, they were applied Standardized Mini Mental State Examination (SMMSE) and Clinical Dementia Rating (Berg L 1984). In the next step, erythrocyte GSH and plasma MDA, NO levels were checked. The statistical difference between the healthy individual and Alzheimer

patient Group erythrocyte GSH ( $p < 0.01$ ) and plasma MDA ( $p < 0.01$ ), NO ( $P < 0.01$ ) levels were plausible. As a result, it was observed that Alzheimer disease caused lipid peroxidation and as a conclusion significantly increased the MDA, GSH and NO levels in the blood of Alzheimer patients. AH'da part of the study, NO level of the brain related to learning and memory can be increased by the nNOS and iNOS was concluded.

### Speaker Biography

Aysel Güven is a lecturer at Başkent Üniversitesi working in Pathology Laboratory Bağlıca Campus. She received her PhD in 2000 from Kafkas University, Turkey and masters from Firat University in the year 1993.

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