



# Serum Uric Acid Level, Alzheimer-type Dementia and Variation

## Serum Ürik Asit Düzeyi, Alzheimer Tipi Demans ve Varyasyon

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Dear Editor,

We read the publication entitled “Assessment of Serum Uric Acid (UA) Levels According to Sex and Stage for Patients with Alzheimer-type Dementia” with great interest (1). Yazar and Yazar (1) concluded that “Our study supports the hypothesis that the decrease detected in serum UA concentrations in parallel with the progression of disease stages is directly related to the pathogenesis of AD”. We agree that there might be some possible pathophysiologic mechanisms that might affect serum UA levels in AD. Nevertheless, there are many considerations regarding the variation of UA based on laboratory medicine principles. First, Yazar and Yazar (1) had the UA measurement in two different laboratories from two hospitals. A variation of UA determination can be seen. The differences of measured UA levels due to different laboratory technicians as well as different laboratories are well documented in the literature (2,3). In the present report, the inter-personal and inter-laboratory variations can be expected. In addition, there is also a seasonal variation of UA levels (4). These factors might affect the observation in the report by Yazar and Yazar (1).

### Authorship Contributions

Surgical and Medical Practices: BJ., VW., Concept: BJ., VW., Design: BJ., VW., Data Collection or Processing: BJ., VW.,

Analysis or Interpretation: BJ., VW., Literature Search: BJ., VW., Writing: BJ., VW.

### Ethics

**Informed Consent:** Not applicable.

**Peer-review:** Externally peer-reviewed.

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