## Polysomnographic survey of sleep architecture in patients with Methamphetamine dependency in early full remission phase

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**Introduction:** Nowadays, the association of stimulants and sleep disorders is more interested. Given the few number of studies in the current scientic cliterature regarding assessment of the structure of sleep in patients with dependence on amphetamines, especially a er long periods of abstinence, present study is designed for the assessment.

**Method:** is study was conducted in 2013-2014 in Mashhad and the subjects were selected through the convenience sampling method from medium-term residential treatment centers. ey were assessed through psychiatric interview whether or not meet the inclusion/exclusion criteria. e case group consisted of 12 patients whom were diagnosed as in early full remission according to DSM-IV TR criteria, were explained about how polysomnography worked and sent to sleep lab. e collected data was analyzed by SPSS. On the basis of Kolmogorov-Smirnov results, the quantitative data with normal distribution were then analyzed with t-test and the qualitative data with Chi-square test.

**Result:** However the mean Total Sleep Period (TSP) and Total Sleep Time (TST) were in the normal range  $(403.0\pm52.9)$  and  $333.6\pm79.1$  minutes, respectively), there was a signic ant dierence between these two variables (p=0.001). ere was a slight increase in Sleep Onset Latency (SOL) that was not signic ant (p=0.47). e participants generally, suered poor quality of sleep, subsequent to signic ant decrease of Sleep E ciency (SE) (p=0.047) and slight rise in WASO (Waking A er Sleep Onset)  $(69.53\pm3.4, p=0.08)$ . Besides, results indicated changes in sleep stages including signic ant rise in stages 1 and 3 of non-REM sleep with a trivial fall in NREM stage 2, though the total amount of NREM sleep was not signic cantly changed. Evaluation of REM phase, in turn showed an increase in latency and percent of it signic cant. Although REM pressure which was calculated by the number of REM episodes, slightly increased.

**Conclusion:** Current ndings shown sleep disturbances due to stimulants, within prolonged period of abstinence, could resect the preliminary mechanisms causing neuropsychiatric disorders, although it needs further studies which consider and resolve our limitation.

## **Biography**

Zahra Amjadi Goojgi has completed her Doctorate degree in Medicine from Islamic Azad University of Iran and Specialty degree of Psychiatry from Mashhad University of Medical Sciences.

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