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## NEUROMETABOLIC EVIDENCES FOR DIABETES AND INTERMITTENT EXPLOSIVE DISORDER: A CASE REPORT

**Ahmet Mithat Tavli**

Istanbul University, Turkey

**Background:** Despite studies suggesting that increased insulin resistance and higher fasting glucose levels may secondary lead to glucose hypo metabolism in specific brain regions which may contribute to the development of cognitive disturbances during diabetes I-II, the underlying mechanism of diabetes associated impulse control disorders is still unclear. Interestingly, a very recent study has demonstrated that impulse control disorders (especially intermittent explosive disorder) were significantly associated with the diabetes diagnosis. Thus, studies have reported that intermittent explosive disorder and borderline personality are associated with an increase of glucose metabolism in the limbic system and a decrease in prefrontal regions supporting the role of dynamically interacting cortico-subcortical networks. Besides their key role as a pacemaker for cortical centres via purely motoric coordination, lentiform nucleus and pons have been also shown to play a significant role in emotional process in also involving reflexive emotional reactions. This is in line with previous evidences showing that gray matter volume reductions in neocortical regions may be specific to psychiatric disorders. These findings together suggest that a disturbance in connectivity between different brain regions, rather than abnormalities within the separate regions themselves may be responsible for the clinical symptoms of intermittent explosive disorder.

**Case:** Here author describe a 36 year old man, experience the aggressive outburst symptoms one year after he was diagnosed as type II DM.

## BIOGRAPHY

Ahmet Mithat Tavli completed his PhD in Selçuk University, Turkey. He is the Director of Neurology Department of Milas Government Hospital, Turkey. He studied for two years in Florence Nightingale Hospital and studied for two years in Medipol Experimental Laboratory in Istanbul. He has over 20 publications in various journals.

[mithattavli@yahoo.com](mailto:mithattavli@yahoo.com)



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