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**TITLE:** Do Personality Traits In Obstructive Sleep Apnea Syndrome (Osas) Patients Affect Their Purchase Motivation Of Continuous Positive Airway Pressure (Cpap) Machine?

**INTRODUCTION:** The use of continuous positive airway pressure (CPAP) has been shown to be clinically beneficial for most patients with obstructive sleep apnea syndrome (OSAS). This study sought to determine the factors that may contribute to the decision of purchasing mechanical ventilation including personality.

**MATERIALS AND METHODS:** Patients with moderate-to-severe OSAS who attended diagnostic polysomnography (PSG and CPAP titration were included in this study. After personality types were determined using a questionnaire, 101 OSAS patients with Type-D personality were selected and matched at a ratio of 1:1 to OSAS patients with Non type-D personality. The factors that might affect the decision of purchasing CPAP were analyzed using a conditional logistic regression model .

**RESULTS:** Characteristic differences were only observed in income and sleep habit with or without a partner between the patients with Type-D and non Type-D personalities. Type-D personality was not significantly associated with the motivation of purchasing a CPAP machine, and ESS scores was the only predicting variable in this study.

**CONCLUSION:** CPAP adherence was associated with Type-D personality. More studies using population-based and longitudinal designs with randomly selected OSAS patients are needed to correct the potential bias of participant inclusion and to assess the long term impacts of Type-D personality on health status among OSAS patients.