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**Title:** Prescription, subjective and objective compliances in patients with obstructive sleep apnea syndrome using positive airway pressure

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**Body:** Gold treatment for obstructive sleep apnea syndrome(OSAS) is continuous positive airway pressure(CPAP).We aimed to assess prospectively prescription,subjective and objective compliances in OSAS patients recommended PAP treatment,factors effecting compliance.648 patients (69.6% men,30.4%women)recommended to use PAP in January 2005-June 2011,were included.Patients using PAP were questioned for adverse effects and assessed with ESS(Epworth Sleepiness Scale)at follow-ups.Prescription,objective and subjective compliances were assessed.Relationship between compliance and demographic data,PSG(polysomnography) findings,ESS scores,adverse effects were analyzed.The mean age was  $51.29\pm 9.97$  and mean BMI(body mass index) was  $33.52\pm 6.56$ .In the first night PSG;mean AHI(apnea-hypopnea index) was  $54.16\pm 26.41$  and AI(apnea index)was  $31.46\pm 26.95$ .248(38.3%)cases attended follow-ups,246 (37.9%) were followed by phone visits and 154(23.8%)couldn't be reached.Patients usingPAP for at least 4 hours per night for at least 70% of the days monitored were regarded as compliant and who didn't meet this criteria were considered as noncompliant.In whole population 63.9%obtained PAP machine(prescription).In 248 cases attending follow-ups,subjective compliance was 85.1%;objective compliance was 64.5%.Higher ODI(oxygen desaturation index) and lower SpO2(oxygen saturation) observed in first night PSG were found to positively affect prescription ( $p<0.05$ ).Improvement in ESS score and satisfactory sleep were significantly correlated with objective compliance( $p<0.05$ ).Chest discomfort,difficulty falling asleep and sleep disturbances were significantly higher in noncompliant group ( $p<0.05$ ).