**投稿範例**

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**項目類別：**

□ Sleep Physiology,

□ Sleep Monitoring,

□ Circadian Rhythm Disorders,

□ Insomnia,

□ Sleep-disordered Breathing,

□ Sleep and Neurological Disorders,

□ Sleep and Psychiatric Disorders,

□ Others\_\_\_\_\_\_\_\_

**摘要類別：** □ 原著研究摘要 □ 個案報告

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**是否申請論文獎:** □ 是 □ 否

**Left atrial volume Index and circulation time in**

**Left atrial volume Index and circulation time in obstructive sleep apnea patients**

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**Objective:** To evaluate the association between the left atrial volume index (LAVi) and apnea-hypopnea index index (AHI) and the circulation time (Ct) in the obstructive sleep apnea (OSA) patients.

**Methods:**From January 2007 to January 2008, seventy-five patients referred from cardiologist for polysomnography were retrospectively reviewed. Totally, there were 56 patients enrolled in our series. Demographic characteristics, echocardiograms and polysomnograms were collected and analyzed. The left atrial volume were calculate by using area-length method and LAVi was calculated by the LA volume to body surface area ratio. The circulation time (Ct) was measure the time between the end of obstructive apnea event and peripheral detection of a desaturation pulse by finger oximetry.

**Results:**The Student’s test was used to assess the difference between the two groups which divided according to LAVi severity (LAVi > 32 ml/m2, and LAVi ≤ 32 ml/m2). On analysis, LAVi was stronger parameter associated with AHI (P value 0.001) than the left ventricular ejection fraction (P = 0.958). Nineteen patients were selected to compare Ct which also divided into two groups according to LAVi; the mean circulation time amounted to 24.82 and to 20.80 seconds, respectively.There was a good positive linear correlation between LAVi and Ct in severe group ( LAVi> 32 ml/m, *r*=0.9513, *P<* .0001).

**Conclusion:** LAVi is a significant echocardiographic parameter associated AHI in OSA patient; it also had strong correlation with Ct especially in severer group.

中文題目： 阻塞性睡眠呼吸中止症病患左心房容積指數及循環時間之關係

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