通訊作者:陳弘晉;單位:林口長庚耳鼻喉部,睡眠中心;

職稱:醫師

電話:(03)3281200-3968; 手機:09753-53288

Email: b9602052@cgmh.org.tw; 身分證字號: D122266435

住址:桃園市龜山區復興街5號林口長庚紀念醫院耳鼻喉科辦公室

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

發表方式: ■ 口頭宣讀 🗌 壁報研討會 🗌 隨大會安排

是否申請論文獎:■ 是 □ 否

Parapharyngeal Fat Pad Area at The Subglosso-Supraglottic Level is Associated with Corresponding Lateral Wall Collapse and Apnea-Hypopnea Index in Patients with Obstructive Sleep Apnea: A Pilot Study

Hung-Chin Chen*, MD¹, Li-Ang Lee, MD, FICS¹, Hsueh-Yu Li, MD, FACS, FICS¹, Chao-Jan Wang, MD², Yu-Lun Lo, MD³

Department of Otolaryngology-Head and Neck Surgery, Sleep Center, Linkou-Chang Gung Memorial Hospital, Chang Gung University, Taoyuan, Taiwan¹ Department of Medical Imaging and Intervention, Sleep Center, Linkou-Chang Gung Memorial Hospital, Chang Gung University, Taoyuan, Taiwan²

Department of Thoracic Medicine, Sleep Center, Linkou-Chang Gung Memorial Hospital, Chang Gung University, Taoyuan, Taiwan³

Objective: To assess associations between fat pad areas at various anatomic levels and the sites of lateral wall collapse and disease severity in adult patients with obstructive sleep apnea (OSA).

Methods: Forty-one adult patients (39 males and 2 females) with OSA who prospectively underwent a drug-induced sleep CT scan were included. Areas of parapharyngeal fat pads and degrees of lateral wall collapse at three representative anatomic levels (nasopharynx, oropharynx, and subglosso-supraglottis), and apnea-hypopnea index (AHI) were measured.

Results: The median AHI and body mass index were 50.2 events/h and 26.5 kg/m², respectively. In the subglosso-supraglottic region, the parapharyngeal fat pad area in 17 (41%) patients with complete lateral wall collapse was significantly larger than that in 24 (59%) patients without complete collapse (median, 236.0 mm² vs 153.0 mm²; P = 0.02). The parapharyngeal fat pad areas at the subglosso-supraglottic (r = 0.63; P < 0.001) and nasopharyngeal (r = 0.35; P = 0.02) levels were significantly associated with AHI. In multivariate regression analysis, the parapharyngeal fat pad area at the subglosso-supraglottic level ($\beta = 0.02$; P = 0.01) and body mass index ($\beta = 3.24$; P = 0.01) were independently associated with AHI.

Conclusion: In this preliminary study, the parapharyngeal fat pad area at the subglosso-supraglottic level was associated with complete corresponding lateral wall collapse and AHI. Further studies are warranted to investigate the effect of parapharyngeal fat pad areas on the treatment of OSA.

中文題目:阻塞性睡眠呼吸中止症病人舌下聲門上區域(subglosso-supraglottic level)側咽脂肪墊的面積和睡眠呼吸中止指數(apnea-hypopnea index)以及側咽壁的塌陷有正相關性:初探性研究

作者:陳弘晉醫師^{1*},李立昂醫師¹,李學禹醫師¹,王超然醫師²,羅友倫醫師 3

服務單位:林口長庚紀念醫院 長庚大學 耳鼻喉科、睡眠中心¹ 林口長庚紀念醫院 長庚大學 影像診療科、睡眠中心² 林口長庚紀念醫院 長庚大學 胸腔內科、睡眠中心³