

**012**

## **STUDY ON THE CORRELATION BETWEEN NASAL SEPTAL DEVIATION AND CHRONIC RHINOSINUSITIS IN PILOTS**

*French: ÉTUDE SUR LA CORRÉLATION ENTRE DÉVIATION SEPTALE NASALE ET RHINOSINUSITE CHRONIQUE CHEZ LES PILOTES*

**Y Bai**, FJ Ma, MS Hu, XY Yang  
Aviation Medical Examiner of CAAC, ENT, Beijing, China  
[baiyin301@163.com](mailto:baiyin301@163.com)

**Introduction:** There are few studies on the correlation between nasal septal deviation and chronic rhinosinusitis in pilots. The relationship between nasal septal deviation and chronic rhinosinusitis is necessarily investigated in pilots' health management. More attention should be paid and prevention research must be strengthened.

**Method:** Randomly selected 188 pilots who were diagnosed with chronic rhinosinusitis and examined with sinus coronal CT scan in Civil Aviation Aircrew Medical Assessment from 2015 to 2017. According to the set of conditions, 169 pilots were included. By analyzing the cases of chronic rhinosinusitis between the groups, with and without nasal septal deviation, the types of deviation, the cases of nasal septal deviation with chronic rhinosinusitis in wide side, narrow side or both sides and the involved sinuses, composed the statistical analysis.

**Results:** The incidences of chronic rhinosinusitis with and without nasal septal deviation were 62.72% and 37.28% respectively. The high deviation and non-high deviation were 64.15% and 35.85% respectively. The high deviation with chronic rhinosinusitis in wide side, narrow side and bilateral incidence were 17.65%, 29.41% and 52.94% respectively; while the non-high deviation with chronic rhinosinusitis in wide side, narrow side and bilateral incidence were 18.42%, 26.32% and 55.26%. There was no significant difference between the two groups ( $P > 0.05$ ). The involved sinuses with nasal septal deviation in wide side or narrow side were different. The difference between the two groups was statistically significant ( $P < 0.05$ ).

**Conclusion:** Nasal septal deviation is related to the formation of chronic rhinosinusitis, and different types of nasal septal deviation have different influences on the formation of chronic rhinosinusitis.