

**VERTIGO & BALANCE DISORDERS** 



Introduction

- **508** participants **Spatial disorientation contributes to 5-10% of aviation** Mean Age 18.53 ± 0.61 years; 92% Males accidents, with 90% proving fatal Range of gains for 90% of population was 0.88 to 1.11 Hence, intact vestibular function is essential for aircrew Asymmetry value of 6.9% or lower was obtained by 95% Vestibular function can be assessed using the video Head Impulse Test (vHIT) Left LSCC Gain vHIT norms refer to the general population and may not be L-LATERAL GAIN 80ms 25 suitable for aircrew 20 15 N **Objectifs** 10 This study aimed to determine normative Lateral Semi-Circular 1.10 1.00 L-LATERAL GAIN 80ms Canal (LSCC) vHIT gains of young and healthy adults 13

Méthodes et Matériels

- Healthy candidates for military flight academy
- Underwent a vHIT of LSCC
- Main outputs: Nomograms of gains and asymmetry values

## Establishing vHIT Norms for Vestibular Screening of Young and Healthy Adults

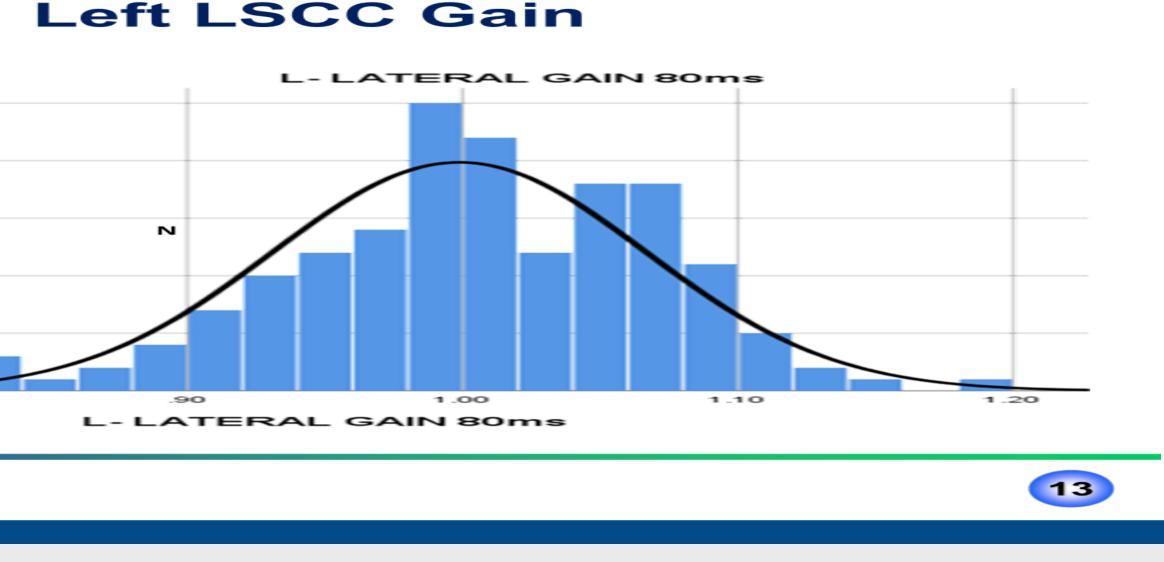
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**1. LSCC vHIT gains range for** young and healthy adults was found to be narrower (0.88-1.11) than that of the general population (0.8-1.2)



**Résultats** 



Conclusion

**2.** Vestibular screening is not prevalent, but it is both feasible and important in aviation



