

Introduction

- Spatial disorientation contributes to 5-10% of aviation accidents, with 90% proving fatal
- Hence, intact vestibular function is essential for aircrew
- Vestibular function can be assessed using the video Head Impulse Test (vHIT)
- vHIT norms refer to the general population and may not be suitable for aircrew

Objectifs

This study aimed to determine normative Lateral Semi-Circular Canal (LSCC) vHIT gains of young and healthy adults

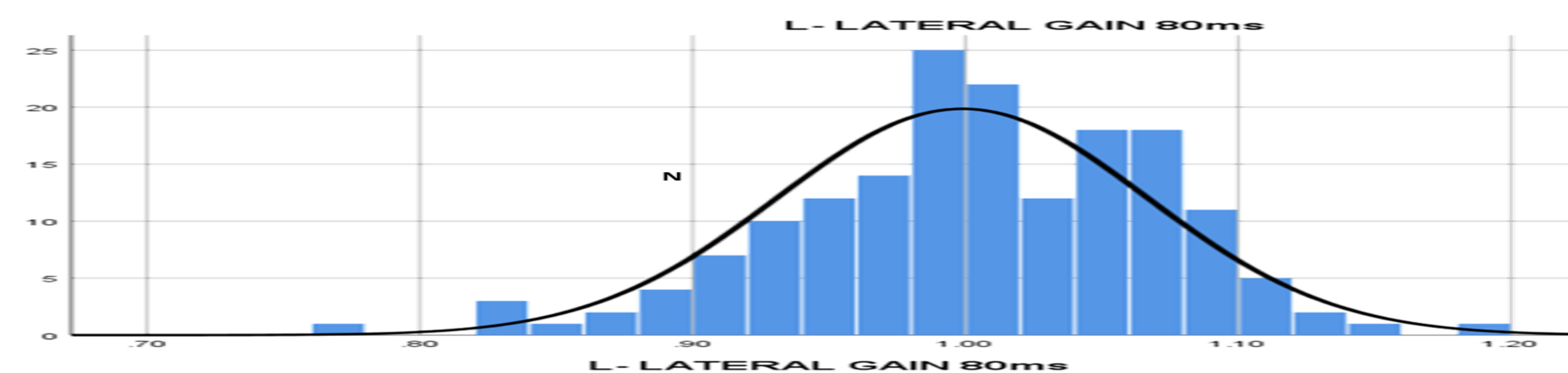
Méthodes et Matériels

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

Résultats

- 508 participants
- Mean Age 18.53 ± 0.61 years; 92% Males
- Range of gains for 90% of population was 0.88 to 1.11
- Asymmetry value of 6.9% or lower was obtained by 95%

Left LSCC Gain



Conclusion

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