Changes in emotional and behavior problems, and brain morphometry following mild traumatic brain injury in early adolescence: A pre-post study design

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**INTRODUCTION**

Mild traumatic brain injury (mTBI)
- highly prevalent in children
- emotional & behavioral difficulties [1]

Interaction btw injury physiopathology & brain maturation may underpin long-term difficulties following mTBI [2]

Very few neuroimaging studies - conflicting results [2]
- ↓ gray matter volumes and cortical thickness following pediatric mTBI
- no changes

Unsolved question: differences already existed before the injury?
- Adolescent Brain Cognitive Development (ABCD) [3] - rare opportunity to explore it

**OBJECTIVE**

To examine longitudinal changes in emotional and behavior problems, and brain morphometry in young adolescents with and without mTBI using a pre-post study design

**CONCLUSION**

As compared to non-injured peers, children with mTBI show no different profiles in emotional and behavior problems, but greater global brain volume and cortical thickness at baseline. Further exploration is needed to fully understand these findings.

**REFERENCES**