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**Trunk rotation alters postural sway but not gait in female children and early adolescents:  
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**This manuscript is composed by 2998 words and it includes 4 tables and 1 figure.**

**The abstract is 254 words long**

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### **Highlights**

1. We assessed balance and gait in children and adolescents with  $ATR \geq 5^\circ$
2. Postural sway was found increased only in girls with  $ATR \geq 5^\circ$  but not boys
3. Spatio-temporal parameters of gait were not affected by trunk rotation

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