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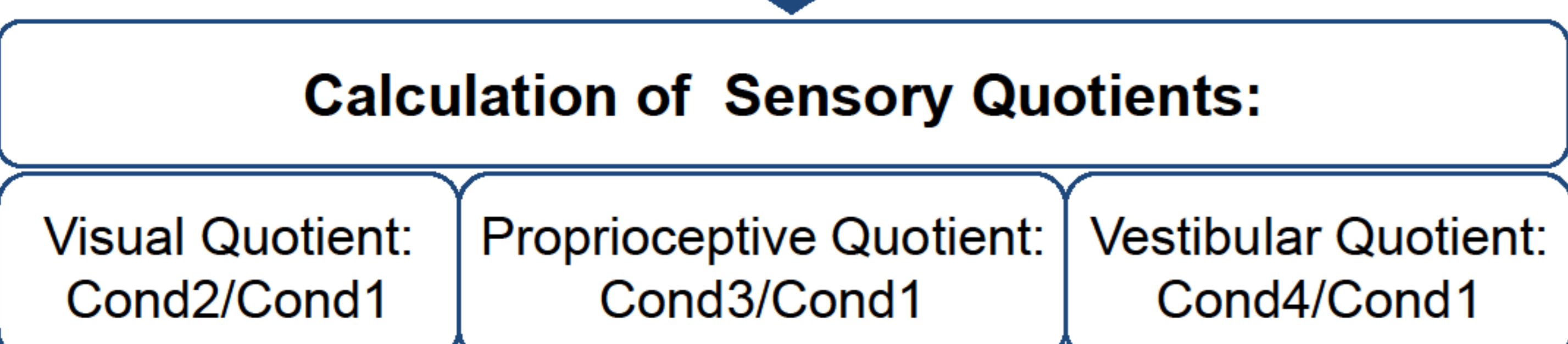
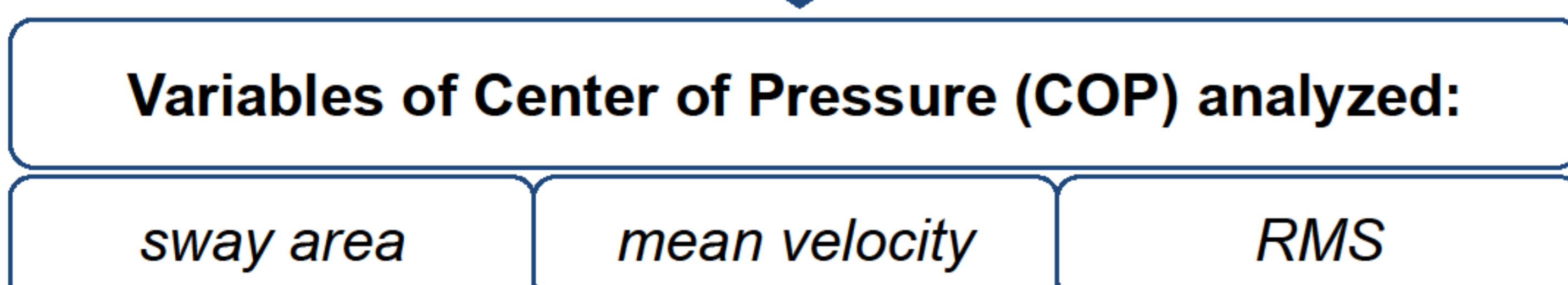
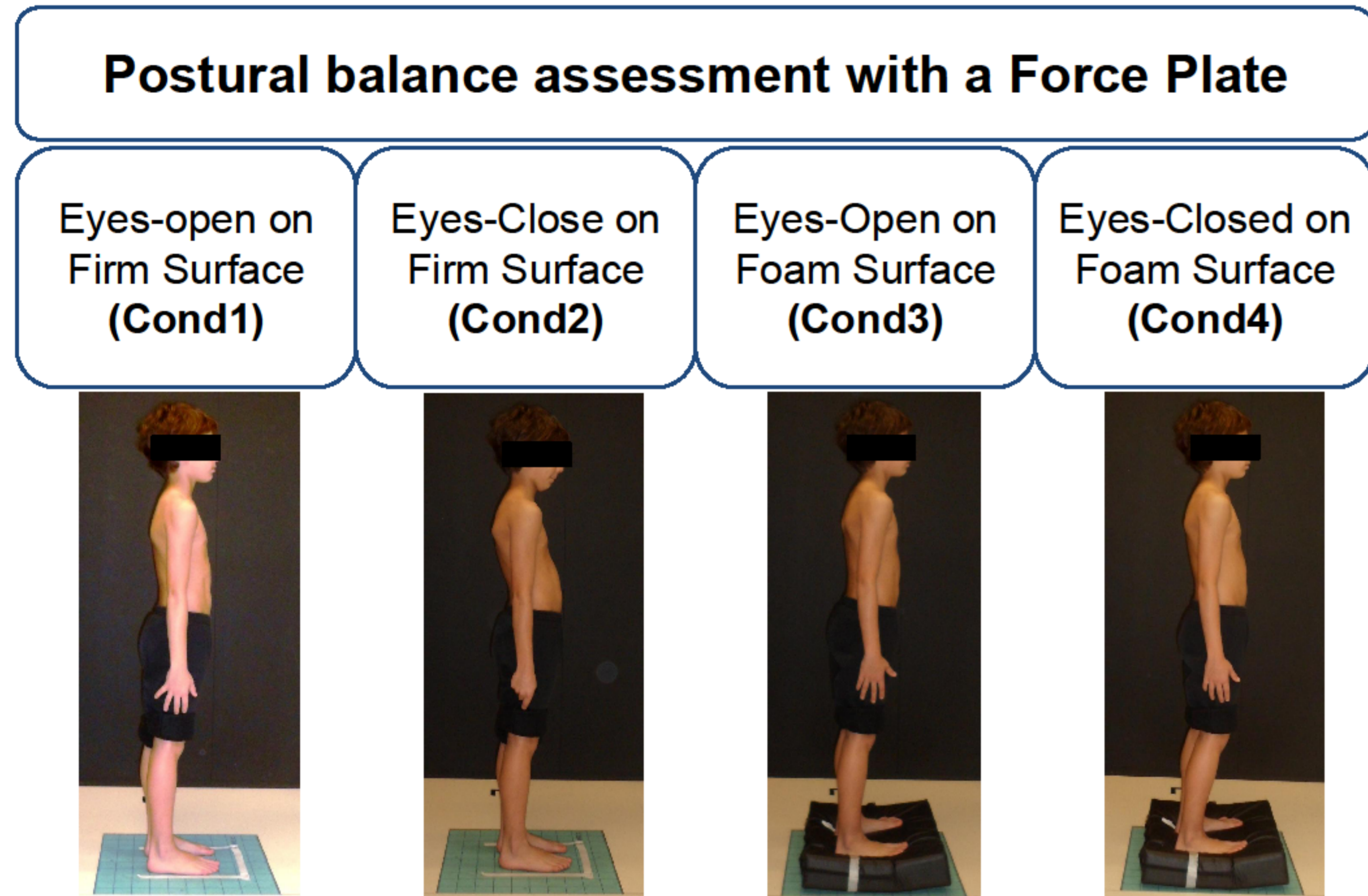
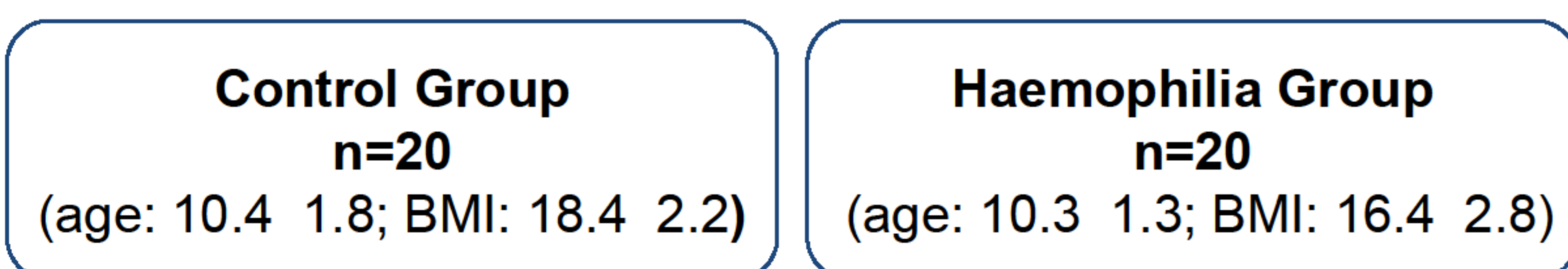
## INTRODUCTION

Sensory information from visual, vestibular and proprioceptive systems are necessary to control posture and balance. Impairment in proprioception due repetitive joints bleeding may lead to a deficit in postural balance which, in turn, lead to high joint stress and risk of bleeding recurrence. Despite the increase of attention in this field during the last years it is still scarce the data of how these bleeds can affect postural control of children with hemophilia (CWH) without arthropathy.

## OBJECTIVES

To evaluate postural balance under different sensory conditions in CWH.

## METHODS



## RESULTS

No differences were found in visual and vestibular quotients' variables (*sway area, mean velocity and RMS*) between groups. Significant higher value ( $p=0.042$ ) was found in proprioceptive quotient (*sway area*) in HG when compared with CG (Figure 1).

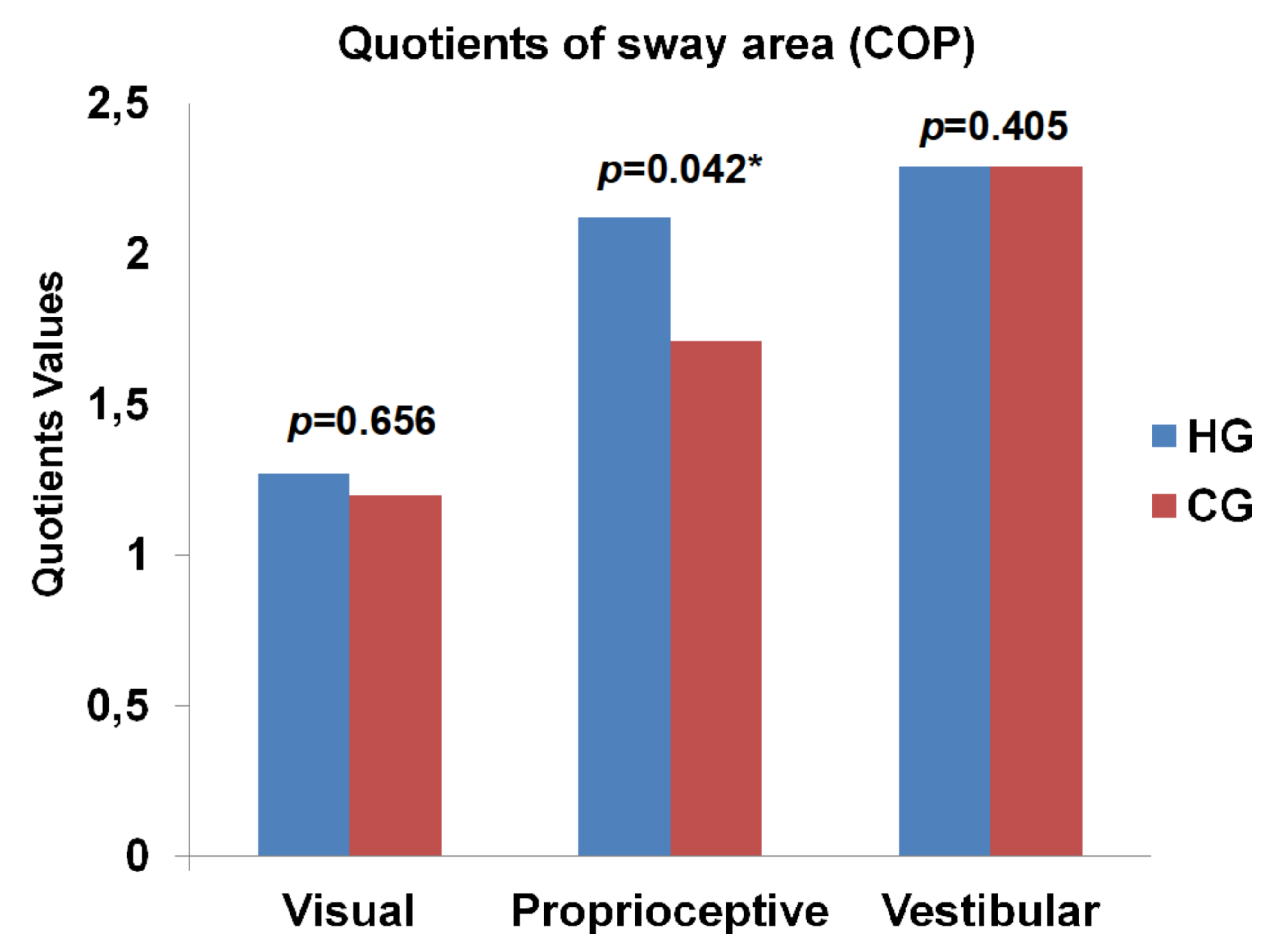


Figure 1: Graphic showing quotients values obtained with sway area variable in haemophilia group (blue bars) and control group (red bars).

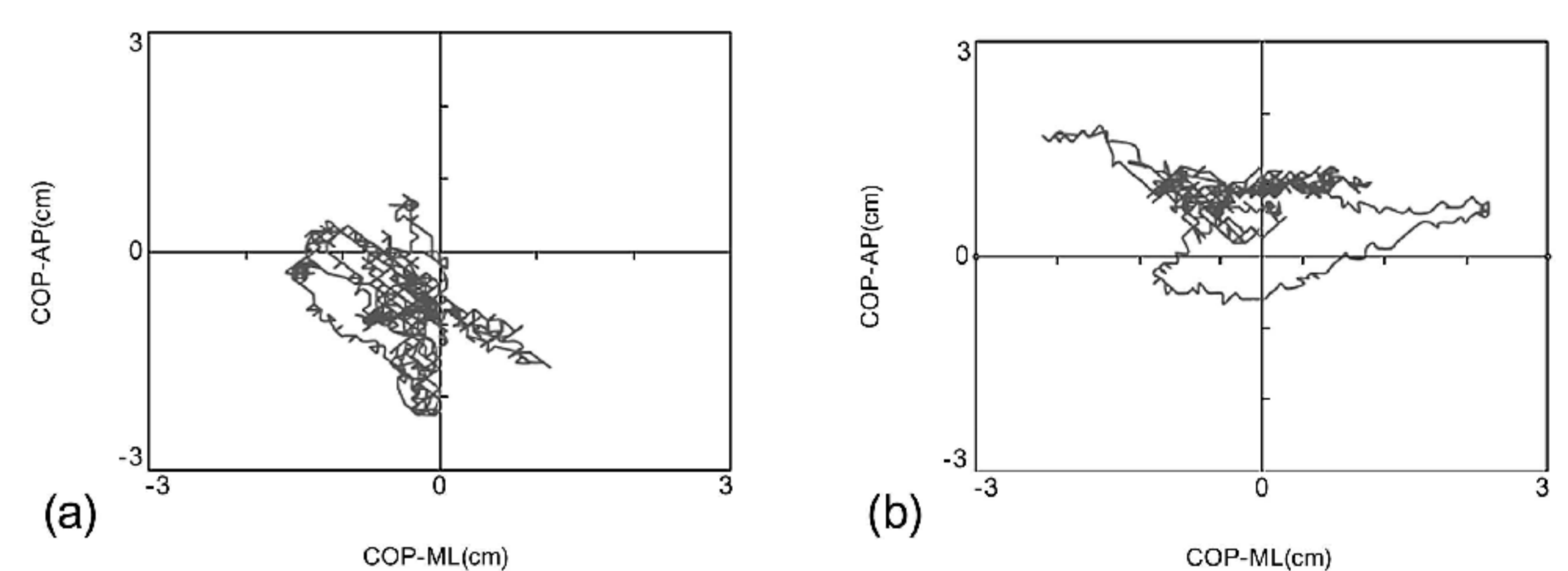


Figure 2: Center of pressure displacement of one participant from control group (a) and haemophilia group (b).

## CONCLUSION

CHW without gross joint damage showed an difference in postural balance when compared with non-hemophiliac children. The identification of early balance impairments in CWH can help us to understand better the effects of bleeds inside joints on postural control and plan a more effective rehabilitation treatment.

## REFERENCES

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