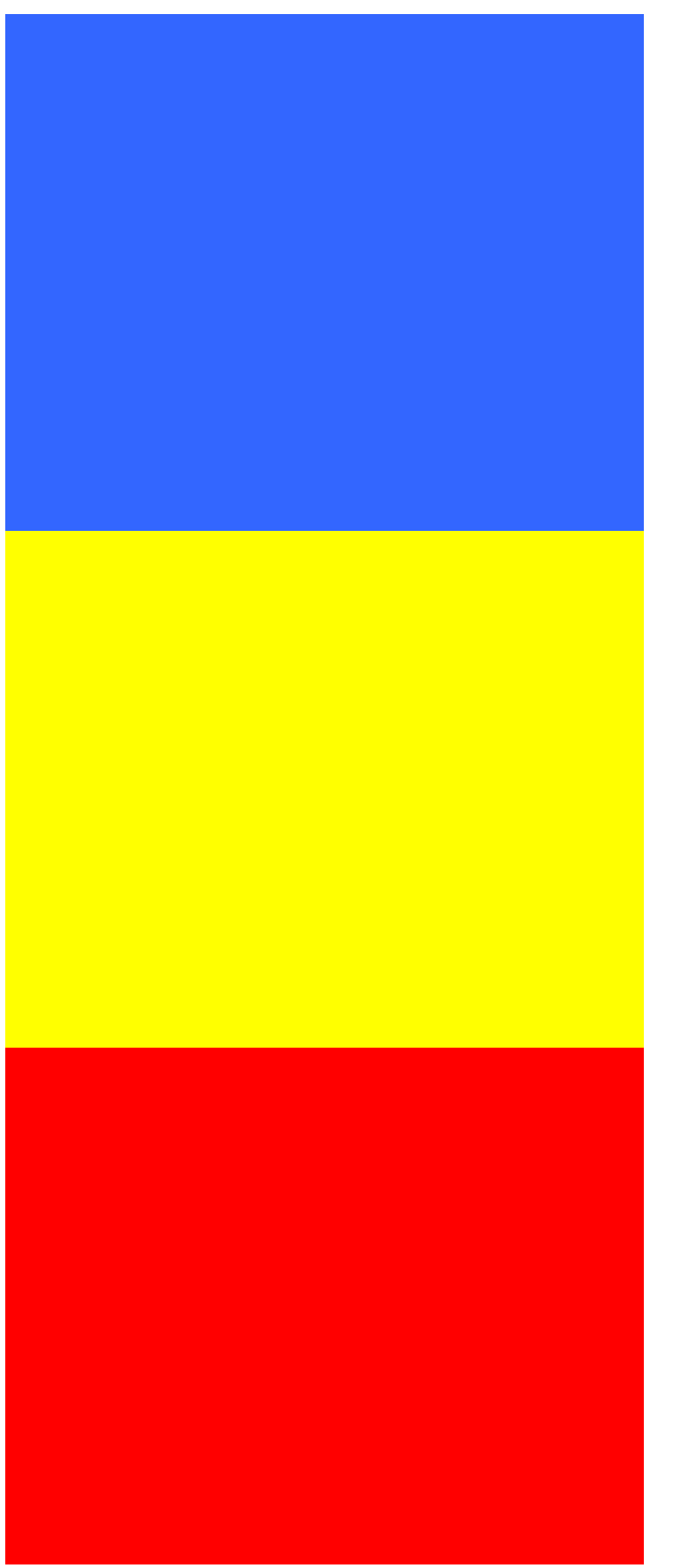


Aquatic Physical Therapy at the sit to stand transfer in stroke: A Case Study

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INTRODUCTION AND OBJECTIVE

Studies show that 70% of body weight in patients with stroke during the transfer from sitting to standing position is transferred to the uninvolved limb.

Objective Analyze the influence of aquatic therapy on body weight transfer to the affected limb during the transition from sitting to standing position.

MATERIAL AND METHODS

Participated in this study a patient with right hemiparesis. The protocol lasted eight sessions, with 35 min of duration each, in a liquid medium. The data of gluteus maximus activation were collected from surface electromyography (EMG), and data of body weight transfer was examined by baropodometry platform.

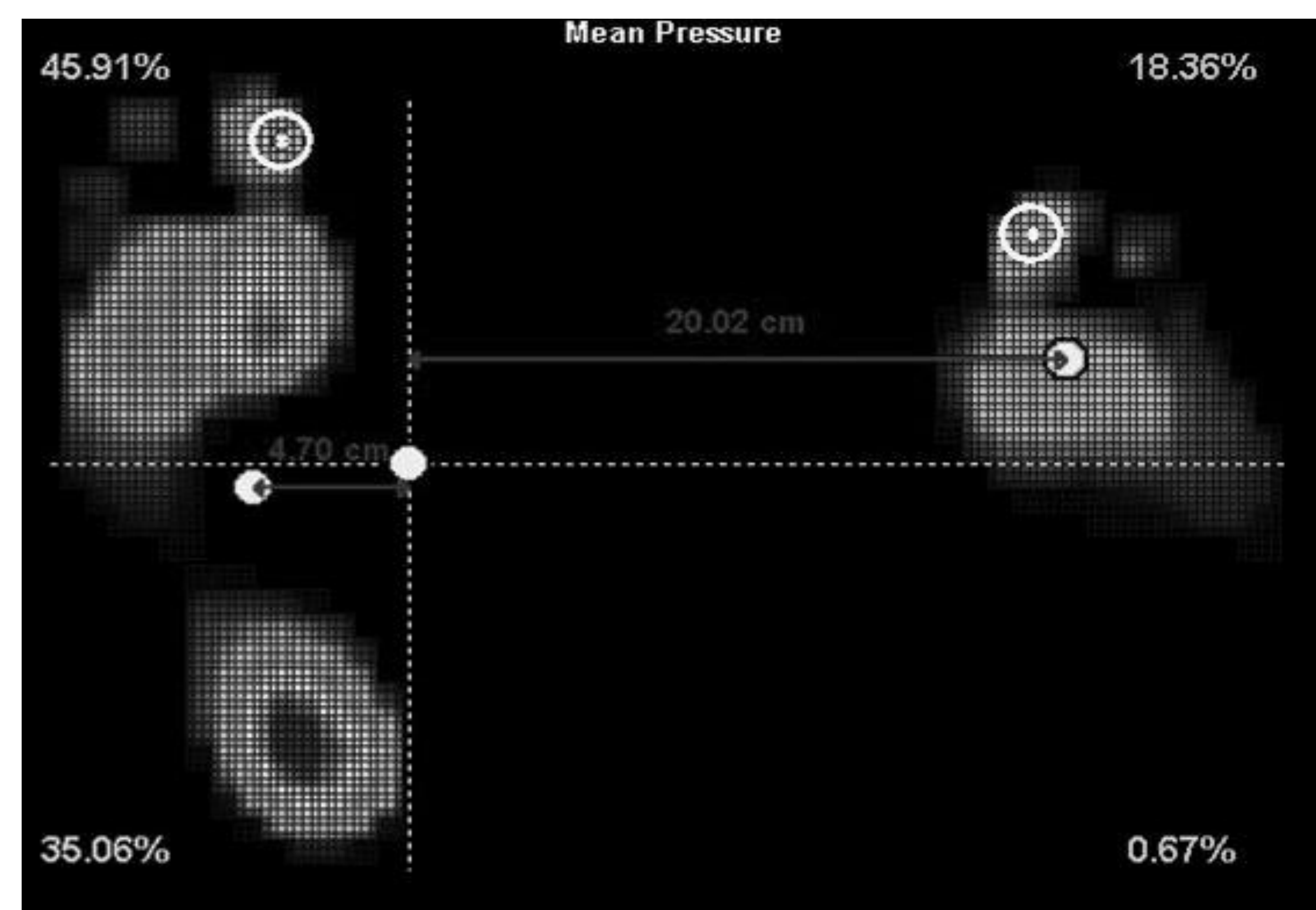
RESULTS

Pre test EMG was 151.1 uv in the right gluteus maximus and 229.1 uv in the left gluteus maximus. EMG post intervention was 113.6 uv in the right gluteus maximus and 113.3 uv in the left gluteus maximus. After intervention baropodometry platform showed an improvement of 19% in weight transfer for paretic limb.

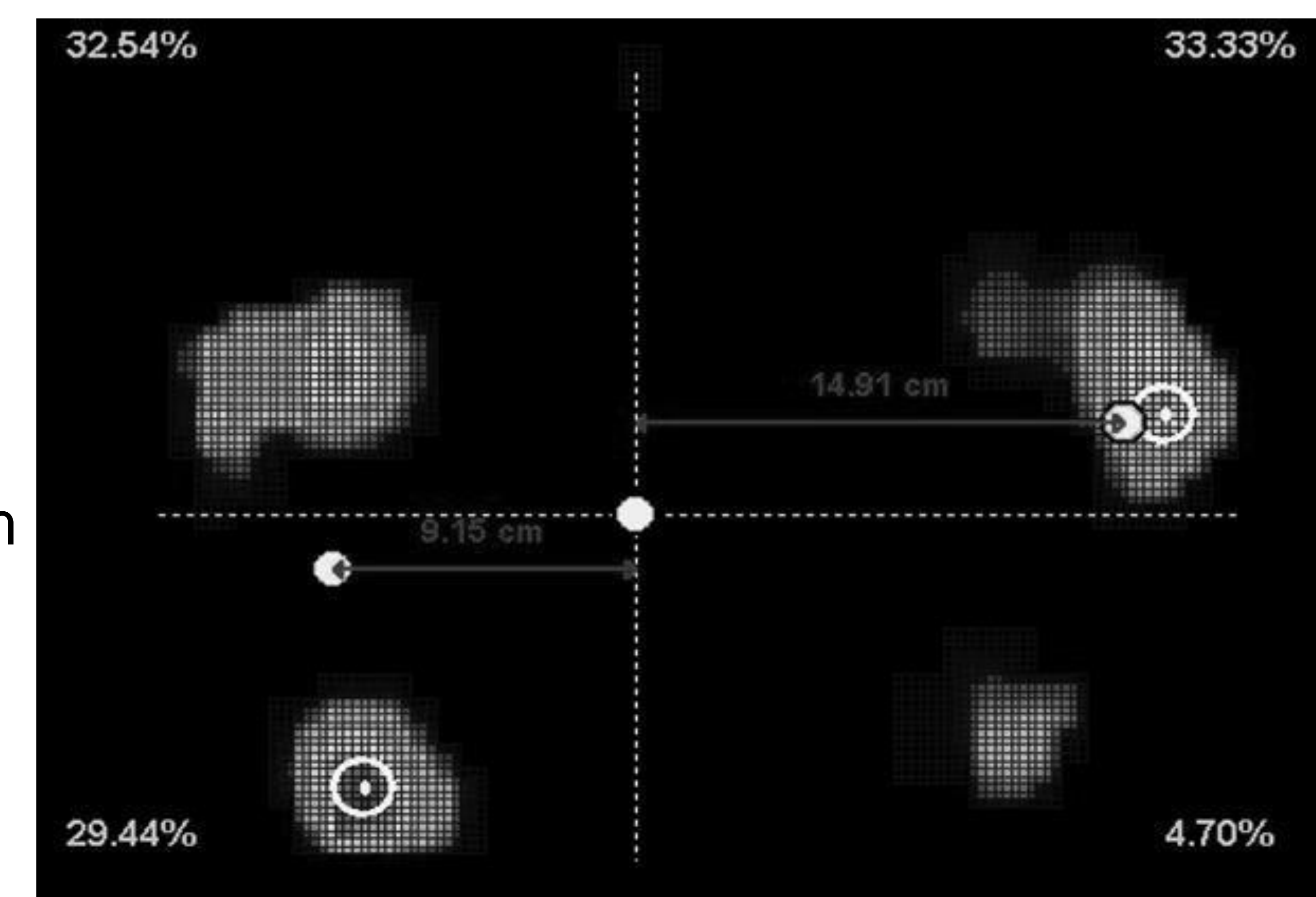
CONCLUSION

The results showed that treatment was favorable to the patient, because at the end of application it was observed more simetric gluteus maximus activation and body weight transfer to the paretic limb. These factors interfered positively in the security and independence in transferring from sitting to standing position.

PRE TEST
Displacement
4,7 cm Left
limb; 20,02 cm
Right limb



POST TEST
Displacement
9, 15 cm Left
limb; 14,91 cm
Right limb



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