21st European Congress of Physical and Rehabilitation Medicine 2018, Vilnius

Using of accelerometer in rehabilitation of upper limb paresis

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Methods and design

50 patients with central hemiparesis in a rehabilitation DC, 2 groups – A (with acc.), B (without acc.) for 4 weeks followed parameter – daylong physical activity of upper limb

1. week 2. week 3. week 4. week

accelerometer
daily 9.00-16.00
Mo - Fri

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Daylong physical activity of the upper limbs

Results, Conclusion

Sensor – accelerometer

- virtual therapist
- motivation improvement
- movement pattern improvement– paretic upper limb
- quality of life improvement