Disclosures of interest The authors have not supplied their declaration of conflict of interest.

Reference

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CO45-003-e
Does hippotherapy improve motor function in children with cerebral palsy? Systematic review
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Objective To perform a systematic review of the literature regarding hippotherapy in children with cerebral palsy.

Method The research in Medline and Cochrane Library databases was performed using the keywords “Equestrian therapy”, “Riding for the disabled”, “Hippotherapy”, “Equine-movement therapy”, “Therapeutic horse (back) riding”. The methodological quality of the articles was assessed using four levels of evidence and three guideline grades (A: strong B: moderate C: poor).

Result Six prospective randomized controlled studies confirm the level of evidence of hippotherapy in children with cerebral palsy. Hippotherapy and/or HBRT in children with cerebral palsy contributes to improve motor function, symmetry of muscle contraction, spasticity, posture and walking. Ten prospective no randomized studies confirm the level with grade C for balance, motor coordination, lumbo-pelvic flexibility, walking speed, and social behavior.

Conclusion The level of evidence of hippotherapy in children with cerebral palsy is moderate (no grade A studies and six grade B studies).

Keywords Hippotherapy; Equestrian therapy; Therapeutic horse (back) riding; Cerebral palsy; Literature review evidence based; Rehabilitation

Disclosure of interest The authors have not supplied their declaration of conflict of interest.

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CO45-004-e
Effects of botulinum toxin injections on function and quality of life in children with cerebral palsy
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Introduction Our objective was to show the effects of botulinum toxin injections (BT) on function and quality of life in children with cerebral palsy (CP).

Patients and methods A prospective study including 60 children, aged from 2 to 18 years old, who received repeated injections of BT was conducted. Evaluations were done before and after injections including spasticity using the modified Ashworth scale (MAS), functional evaluation using the Gross Motor Function Classification System (GMFCS) and the Manual Ability Classification System (MACS), a videographic record, an evaluation of satisfaction (Visual Analogical Scale) and an evaluation of the quality of life using the Child Health Questionnaire Parent form 50 Questionnaire (CHQ-PF50).

Results The average of the MAS was 2.5 for all injected muscles. Sixty-five percent of children were classified level I, II or III of MACS. All our patients had BT injections. The sural triceps was the most injected muscle. The improvement of spasticity after BT injections in the lower limb was more important for 6-year-old children (improvement of 46%, P < 0.001). We noted a significant increase of the number of walking patients (P < 0.001) and a beneficial effect on the pattern gait especially for children level III of GMFCS. The percentage of children improved (in GMFCS and MACS) and the average of visual analogical satisfaction scale as well, increased from one injection to another reaching a constant level in the last 2 injections (P < 0.001). We have noted an improvement in the score of CHQ-PF50 (physical and psychosocial score), which was correlated with the functional improvement.

Discussion Our study shows how BT injections can induce a functional gain in children with CP. An improvement of upper extremity’s function, gait pattern and the quality of life upturn were plainly noticed after these injections. Similar benefits of BT [1,2] were mentioned in literature.

Keywords Cerebral palsy; Botulinium toxin; Gross Motor Function Classification System; Manual Ability Classification System; Child Health Questionnaire parent form 50; Function; Quality of life

Disclosure of interest The authors have not supplied their declaration of conflict of interest.

References

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Quality of life of adults with cerebral palsy living in britany
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Introduction Just a few studies have been published about health related quality of life of adults with cerebral palsy and no at our knowledge in the French population. The objective of this study is to obtain an image of health related quality of life of BreizhPC network users.

Methods A questionnaire was sent to all network users. This questionnaire concerned the people living: work, leisure, clinical knowledge in the French population. The objective of this study is to obtain an image of health related quality of life of BreizhPC network users.

Patients and methods Eight-hundred questionnaires were sent out, 173 users responded, 81 women and 92 men, with a mean age of 42. That