violence (56%), but also entailed thefts, traffic offences, sexual
had been victims previously. The offenses were mainly cases of
ordinary curriculum and 8 were not attending school anymore. Four
follow-up of 8 and a half years, only 6 patients still followed an
required adapted and/or specialized schooling. After an average
disorders already evident during hospitalization. Upon discharge, 62%
behavioral disorders. Multidisciplinary care and follow-up of those
children more at risk is essential in the long-term.
Keywords Acquired brain injury; Child; Cognitive disorders;
Children with ABI who suffer or commit offenses are
injury academic and social difficulties, who sustained severe TBI.
They suffer very severe and disabling cognitive deficits and
mainly boys, from very low socioeconomic background, with pre-
in the International Clasification of Functioning. Primary
of this study was to measure participation in a population
pre- and post-ICF rehabilitation score and the participation.
The robot was used three times at 6 months, 12 months and 24
The robot was used three times at 6 months, 12 months and 24
SD: 3.9 years). Mean total LIFE-H score was 8.4 (SD:

Comparison

-6 months, D1 subscore stabilized for treated patients but declined
in the untreated group (–17.8% at 12 mo). At 12 and 24
months, 57% of all patients could keep on attending a
hypothalamic syndrome, 52% an impaired fullfilness feeling, 76%
lowest scores affected nutrition, community life and recreation
dimensions. All patients had an endocrinological deficit, 19% an
hypothalamic syndrome, 52% an impaired fullfilness feeling, 76%
visual impairment, 14% a neurologic impairment, 91% a neuro-
cognitive impairment. 57% of all patients could keep on attending a
normal school. 43% had to enter a specific school. In patients in
specific school, LIFE-H results were significantly lower in nutrition,
communication, housing and recreation dimensions.
Conclusion Patients with childhood craniopharyngioma have
their participation affected, mainly in the social dimensions. We
could enhance it with systematic diagnosis of those participation
impairments, with the goal of a suitable multidisciplinary
management.

Keywords Childhood craniopharyngioma; Morbidity; Participation;
LIFE-H

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Promoting the use of Motor Function Measure (MFM) as outcome measure in patients with Duchenne Muscular Dystrophy (DMD) treated by corticosteroids

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Objectives Assessing muscle function is a key step in measuring changes and evaluating the outcomes of therapeutic interventions in Duchenne Muscular Dystrophy (DMD). Regarding the large use of corticosteroids (CS) in this population to delay the loss of function, our goal was to monitor the evolution of motor function in patients with MDM treated by corticosteroids (CS) and to study the responsiveness of Motor Function Measure (MFM) in this population in order to provide an estimation of the number of subject needed for a clinical trial.

Method A total of 76 patients with MDM, aged 5.9 to 11.8 years,
with at least 6 months of follow-up and 2 MFM were enrolled, 30 in the CS treated group (8 ± 1.62 y) and 46 in the untreated group (7.91 ± 1.50 y).

Results The relationship between MFM scores and age was studied in CS treated patients and untreated patients. The evolution of these scores was compared between groups, on a 6-, 12- and 24-month period by calculating slopes of change and standardized response mean. At 6, 12 and 24 months, significant differences in the mean score change were found, for all MFM scores, between CS treated patients and untreated patients. For D1 subscore specifically, at 6 months, the increase is significant in the treated group (11.3 ± 14%/y; SRM 2.6 at 24 mo) while a decrease is observed in the untreated group (–17.8 ± 17.7%/y; SRM 1). At 12 and 24 months, D1 subscore stabilized for treated patients but declined significantly for untreated boys (–15.5 ± 15.1%/y; SRM 1 at 12 mo and –18.8 ± 7.1%/y; SRM 2.6 at 24 mo), 21 patients lost the ability to
walk during the study: 6 in the CS treated group (25% at 24 months, mean age: 10.74 ± 1.28 y) and 15 in the untreated group (64.71% at 24 months, mean age: 9.20 ± 1.78 y).
Discussion and conclusion Patients with DMD treated by CS present a different course of the disease described in this paper using the MFM. Based on these results, an estimation of the number of patients needed for clinical trial could be done.

Keywords Duchenne Muscular Dystrophy; Motor Function Measure; Corticotherapy; Clinical trials

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

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Posters

P068-e
Linear morphea treatment and equipment taken through a case report and review of literature

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Introduction Linear scleroderma morphea is a subtype of localized scleroderma which mainly affects children and is sometimes complicated by bone and joint deformities. Its location at the foot is rarely reported.

Aim of study Describe the clinical and anatomical deformity of the foot and ankle in children with linear scleroderma and chart support, from a clinical case and a review of the literature.

Observation An 8-year-old boy followed for Linear morphea was addressed to the consultation of physical medicine and rehabilitation for rehabilitation care and casting of a deformation of the right foot. Physical examination found skin lesions in the thigh and right ankle, a paretic right lower limb, an inequality of length of 3 cm lower right limb, with stiffness in his right ankle. Walking is done with lameness and attack the forefoot, the review found podoscopio grade hollow legs [1] with calcaneal valgus more pronounced on the right. The management consisted of a background treatment with corticosteroids, a functional rehabilitation and suitable equipment.

Discussion/conclusion Scleroderma focal length of the child’s foot is a rare and can be associated with irreducible and scalable orthopedic deformities. Early diagnosis, extensive surgical release in the event of severe and progressive orthopedic deformation, followed by physiotherapy and extended equipment, represent the main elements of the management.

Keywords Linear morphea; Strain; Rehabilitation; Equipment

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

Reference


Further reading


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P069-e
Severe complex regional pain syndrome (CRPS) type I: A multidisciplinary treatment plan and intensive physiotherapy in pediatrics

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Background Nowadays, paediatric CRPS is a recognized disease with its own specificities compared to the adult CRPS. However, its treatment is difficult and there is sparse consensus among the management of those patients, partly due to a usually delayed diagnosis and a complex multifactorial pathogenicity including osteoarticular, neurological and psychological issues. Everyone agrees that the management of these patients should be multidisciplinary including physiotherapy, occupational therapy, psychotherapy and medication.

Case report We are sharing our experience with two severe cases of paediatric CRPS type I involving the foot, a boy and a girl aged 12 and 11 respectively at the time of diagnosis. Symptoms were hyperalgiesia, oedema, bone demineralisation on the radiological exams and a disturbed psychological profile. After the failure of different outpatient treatments, we decided to hospitalise them in the Department of Paediatrics Orthopaedics. The protocol of treatment followed a very strict and intensive daily schedule including multiple therapies in physiotherapy and occupational therapies (balneotherapy, music therapy, progressive desensitization, TENS, walking rehabilitation), the use of pain killers, a follow-up by a paediatric psychiatrist, a referent nurse, and a limitation to the family visiting hours. After 1 to 2 weeks, a significant improvement was seen and after 6 months, pain had disappeared and weight-bearing was possible for both children.

Discussion To this day we do not know the intensity and duration necessary to treat efficiently a paediatric CRPS. The hospitalisation is considered as the last resort for the management of CRPS, but it allows a close observation of the patient, the opportunity to take her/him out of his family and an intensive multidisciplinary treatment that is impossible as an outpatient. The precise factors allowing the treatment’s success are still not clear, but they could be a combination of intensive therapy and/or the withdrawal of the patient from his family. Nonetheless it seems that a strict and intensive protocol schedule, as an inpatient benefits the management of severe cases of CRPS.

Keywords CRPS; Paediatrics; Inpatient treatment

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

Further reading


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