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Evaluation of quality of life in complete locked-in syndrome patients

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Keywords: Locked-in syndrome; Stroke; ALS; Quality of life

Goal.– There are few studies where quality of life (QOL) and contributively factors are assessed in patients LIS with complete physical and functional disability and dependence to caregivers.

We compared quality of life (QOL) of locked-in syndrome (LIS) patients with QOL of healthy controls.

Methods.– We included nine LIS patients (eight vascular aetiology, one post-traumatic), 11 healthy controls. The following scales were administered patients: McGill, Short-Form SF-36, Beck depression inventory-II (BDI-II) and the Toronto Alexithymia Scale.

Results.– Mean McGill and SF36 were not significantly different between LIS group and healthy controls; there were no significant differences between the two groups for others scales either except for BDI-II, depressive symptoms were significantly more frequent in LIS patients.

Discussion.– Our results agree with several previous studies. Several factors may have an impact on QOL of LIS patients such as family support and patient-computer communication devices, these may have contributed to improve QOL of LIS patients in this study.

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P080-e

Substitutive treatment for GH deficit in patients with traumatic brain injury

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Keywords: Traumatic brain injury; Growth hormone; Pituitary deficit; Cognition; Quality of life

Objectives.– Pituitary deficits are frequent in patients with severe traumatic brain injury (TBI) and could participate in the late cognitive sequelae and reduction of quality of life (QoL). A recent study has suggested that treatment of growth hormone deficit (GHD) can improve cognitive disorders. However, we have no idea about the possible effects on participation to daily living activities and quality of life (QoL) and about factors which could contribute to this improvement. The aim of this study was to analyze the effectiveness of substitutive treatment on cognitive abilities, participation and QoL, and predictive factors of the efficacy.

Methods.– We included patients complaining of fatigue and cognitive disorders at least one year after TBI. They were assessed for pituitary functions (with stimulation tests), and cognitive disorders (attention, memory, executive functions), participation in daily living activities and Qol. (QOLIBRI scale). Hormonal deficits were supplemented and a group of 23 persons receiving GH was compared to a group of 27 persons who did not received GH. Control of cognitive assessment, participation in daily living activities and QoL was performed after one year of therapy. We performed ANOVAs of factors Group and Session (p ≤ 0.05).

Results.– Most cognitive parameters improved, but without between-group differences. More definite effect of GH treatment (group x session interaction) was found for vigilance, recall of the Rey complex figure, and two out of six subtests of the QoL questionnaire (personal and functional factors). Tendencies (p ≤ 0.08) were also found for spatial orientation, and immediate recall in the verbal memory test (Buschke). Patients who most improved in QoL subtests were those with lower performance in cognitive tests and especially with lower QoL before treatment.

Conclusion.– In TBI patients showing GHD, substitutive treatment can contribute to better improvement in cognitive performance and QoL. This benefit is more evident for those with severe difficulties before treatment.

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P081-e

Repercussion on professional activity of post-concussion syndrome secondary to a mild traumatic brain injury

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Keywords: Mild traumatic brain injury; Post-concussion syndrome; Professional repercussions

Goal.– Look for the existence of repercussions on professional activity of a post-concussion syndrome consequential to a mild traumatic brain injury.

Population and method.–
– descriptive prospective study, in process;
– inclusion specifications: victims of a mild traumatic brain injury (mTBI) according to the definition of “France Traumatisme Crânien”; admitted to Emergency; aged 18–62; exercising a professional activity;
– search of a post-concussion syndrome (PCS) on the phone after one and three months: Rivermead Post-Concussion Symptoms Questionnaire;
– consultation in case of unfavorable evolution between the two questionnaires: Neurobehavioral Rating Scale-revised (NRS-r), followed by a possible multidisciplinary rehabilitative care in a Functional Reeducation Center;
– search for professional repercussions of the mTBI after six months: unstandardized closed phone questionnaire.

Preliminary results after 15 months.–
– 53 patients included; 34 studied here (the other 19 not being yet at six months after their TBI);
– 53% (18/34) presented a PCS one month after their TBI, persisting after three months for 44% (15/34);
– 24% (8/34) underwent the NRS-r and 9% (3/34) went in reeducation, which saw an unfavorable evolution;
– 74% (25/34) went on sick leave from 1 to 90 days, (22 days on average).

Professional repercussions of the TBI after six months: repercussions are present for 35% (12/34) of cases; among those twelve people, all speak of a persistent tiredness, nine indicate memory troubles, seven attention troubles and a slowness of movement;

All the patients of this set (34/34) resumed their former job after six months; only one of them changed his post within his firm for his own convenience and not because of incapacity pronounced by the occupational doctor.
Small bowel obstruction by superior mesenteric artery syndrome: A diagnosis to know after intensive care stay

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Keywords: Small bowel obstruction; Superior mesenteric artery syndrome; Loss of weight; Nutrition

Introduction.– The superior mesenteric artery syndrome (SMAS) is a small bowel obstruction corresponding to a compression of the third portion of the duodenum (D3) between the mesenteric artery and the aorta. It was described for the first time by Rokitansky in 1861. This compression is due to the desperation of the adipose tissue between the aorta and the mesenteric artery. It is observed in the states of thinness or severe undernutrition. The clinical signs are a small bowel obstruction without hyperthermia but with fast degradation of the nutritional state and water-electrolyte imbalance. The diagnosis is confirmed by imagery with duodenal dilation upstream to the obstacle with linear stop at the level of D3. The treatment is a nutritional care based on refeeding by parenteral nutrition, or by enteral way with duodenojenostomy.

Case report.– We report the case of a patient of 29 years old, thin (68 kg for 1.90 m), hospitalised for a severe craniocebral trauma. The evolution was marked by serious neurological and infectious complications associated with progressive and important weight loss (loss of 18 kg in 4 months, BMI = 14). In this context, the patient had presented vomiting and neurological complication testifies the importance of nutritional evaluation and supporting in trauma patients, and assist referral of brain-injured patients. The most common etiology was sub-arachnoid hemorrhage (56%) and traumatic brain injury (36%). A dedicated follow-up in a specialized unit as close as possible to their home was proposed for all patients.

We have proposed to address this issue with a dedicated unit that works mainly in the neurosurgery department. A physical and rehabilitation practitioner and a neuropsychologist visit the neurosurgery department every week to meet, assess and assist referral of brain-injured patients. Preliminary data from this unit show that 46 patients have been seen in 3 months, 30 patients in neurosurgery without any motor deficiency for 90% of them, and 16 stroke victims in the neurovascular unit. The most common etiology was sub-arachnoid hemorrhage (56%) and traumatic brain injury (36%). A dedicated follow-up in a specialized unit as close as possible to their home was proposed for all patients.

This kind of intervention is mandatory for these patients. To date, our work cannot be exhaustive and two types of patients still do not benefit from our intervention because they are in other departments, mainly traumatic brain injury in psychiatric wards and elderly orthopaedic patients. We are however currently developing such interventions in other departments of our hospital.

Keywords: PRM unit; Traumatic brain injury; Follow-up; Neurosurgery

Recent studies in France have underlined the difficulty to assess and assist brain-injured patients at the acute stage. After recovering a basic level of functioning (as assessed by the neurosurgeon…), the brain-injured patient is usually discharged home where the patient and family are left to manage their problems alone. Nothing new really happens until a social worker or an on-line association or a concerned professional refers the patient or family to a dedicated PRM unit. Thus insufficient assessment and information is a major cause of suffering and burden for the patients and their caregivers.

We have proposed to address this issue with a dedicated unit that works mainly in the neurosurgery department. A physical and rehabilitation practitioner and a neuropsychologist visit the neurosurgery department every week to meet, assess and assist referral of brain-injured patients.

We will discuss through a literature review the pathophysiology of this entity and its main risk factors and specificity in a rehabilitation service. We report three cases of deep vein thrombosis of the upper limb, diagnosed in rehabilitation service in two head trauma and a spinal cord injury quadriplegic. Only one case was complicated by pulmonary embolism.

Discussion.– We will discuss through a literature review the pathophysiology of this entity and its main risk factors and specificity in a rehabilitation service.

Conclusion.– DVT of the upper limb are rare but dangerous and life-threatening accidents, that’s why they need a special monitoring and implementation of prophylactic measures.

Vein thrombosis of the upper limb and central neurological lesions: About three cases

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Keywords: Deep vein thrombosis; Upper limb; Pulmonary embolism; Head trauma; Spinal cord injury

Introduction.– Deep vein thrombosis (DVT) of the upper limb is rare (1–4% of all DVT) with considerable morbidity, related to the risk of pulmonary embolism. Despite a preventive anticoagulation, patients with central neurological injury are frequently exposed to such thromboembolism, due to blood stasis, hypercoagulable state, and the aggression of the vessel wall increased by the presence of peripheral venous catheterization. We report three cases of deep vein thrombosis of the upper limb, diagnosed in rehabilitation service in two head trauma and a spinal cord injury quadriplegic. Only one case was complicated by pulmonary embolism.

Discussion.– We will discuss through a literature review the pathophysiology of this entity and its main risk factors and specificity in a rehabilitation service.