INTRODUCTION

Ecstasy or MDMA (Methylene Dioxymethamphetamine) is a synthetic drug commonly used by the young subject for its stimulating and euphoric effects [1], however this molecule is not free from side effects namely hyperthermia, psychomotor agitation cardiotoxicity, hepatotoxicity, hypoglycemia, renal failure, hyponatremia and seizures [2]. We report a clinical observation of a 34 year old patient who experienced profound hypoglycemia and convulsive hyponatremia following ingestion of an ecstasy tablet. The deep hypoglycemia is thought to be due to endogenous hyperinsulinenie requiring close monitoring of blood sugar in any patient admitted for ecstasy poisoning and a dosage of serum insulin and C-peptide in patients with hypoglycemia. Hyponatremia can be explained either by a direct action of ecstasy or by excessive consumption of water(dilution hyponatremia ),it can cause ,when it is deep, a cerebral edema which would explain the seizures, of or the advantage of ingesting water simultaneously to prevent dehydration or ingesting salt at the same time as reduced volumes of water.

Keywords: Profound hypoglycemia, hyponatremia, convulsion, ecstasy.

Clinical Observation

This is a 34 year old patient with a history of chronic smoking at the rate of 14 packs/year and occasional alcoholism, who was admitted to the emergency reception service for generalized tonic-clonic seizures with revulsion of the eyes, bite if the tongue and leaking of urine following the ingestion of an ecstasy tablet. The emergency response consisted of monitoring vital parameters (TA, HR, FR, SpO2), a position in the left lateral decubitus position, oxygen therapy in a high concentration mask (10 litres/min) and an intramuscular injection of diazepam 10 mg. The clinical examination after this initial management and after the cessation of the convulsions found an apyretic patient (temperature at 37, 7°C), hemodynamically stable (BP at 13/6mmHg, HR at 110 beats/min) and respiratory (FR at 18 cycles/min, SpO2 at 100% under oxygen), the Glasgow score was difficult to achieve (the diazepam effect) and the neurological examination had not found any postcritical sensitivomotor deficit. Capillary blood sugar was very low at 0, 25 g/l and the administration of 50 ml of 30% glucose serum was done urgently. The additional examinations carried out showed hyponatremia at 113 mmol/l, calcemia at 2,4 mmol/l, a slight increase in CPK at 205 IU /l, cerebral edema on CT and the presence of ecstasy in the blood and the urines. The additional treatment consisted of correcting hyponatremia with saline solutions (0,5 mmol/l/h),the evolution was marked by the elevation of the blood level to 138 mmol/l, of the blood sugar to 1,04g/l, the stop of the convulsion and recovery of consciousness.

Discussion

Deep hypoglycemia secondary to ecstasy poisoning has been reported in humans and is believed to be due to endogenous hyperinsulinenie according to one study [3]. This requires close monitoring of blood glucose levels in any patient admitted for ecstasy poisoning and the determination of serum insulin and C-peptide in patients with hypoglycemia. Hyponatremia
can be explained either by a direct action of ecstasy or by excessive consumption of water (dilution hyponatremia) [4]. This deep hyponatremia can lead to a cerebral edema which would explain the convulsive crises observed in our patient. The latter may be due, according to a study, to the direct toxic effect of ecstasy on the axons of serotonergic neurons or to damage to the central nervous system according to the other authors [5, 6], hence interest in ingesting water simultaneously to prevent dehydration, other authors recommend ingesting salt along with reduced volumes of water. The realization of a hydroelectrolytic assessment is essential in front of any poisoning with ecstasy and if the patient presents a hyponatremia with convulsive crises it is necessary to first control the crises by benzodiazepines and think of simultaneously correcting the hyponatremia by administration venous saline solution [7].

**CONCLUSION**

In the event of any profound hypoglycemia or seizures or combination of the two, think of intoxication with ecstasy and start treatment early to avoid serious complications which can be life-threatening for the patient.

**REFERENCE**