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Non-Traumatic Postpartum Subdural Hematoma: A Case Report of Probable Complication of Preeclampsia

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1. Abstract

Preeclampsia is a condition that affects nearly 8% of pregnant women, usually during the second half of pregnancy (from around 20 weeks) or soon after their baby is delivered. A spontaneous subdural hematoma associated with preeclampsia is extremely rare. The author is reporting in this article the case of a 32-year-old woman with 34 weeks of gestation, who sought treatment for high blood pressure, headache, and proteinuria. Nearly 6 weeks after a cesarean delivery of a stillborn baby, the patient developed headache and palsy of the left VIth cranial nerve. Magnetic resonance imaging revealed a left hemispherical subdural hematoma, with midline deviation.

2. Introduction

reeclampsia is a multisystem disorder that complicates 3-8% of pregnancies and constitutes a major source of morbidity and mortality worldwide [4].

Intracranial hemorrhage is a rare complication during pregnancy, but potentially fatal. The main causes are ruptured aneurysm, arteriovenous malformations (MAV) and pregnancy-induced hypertension. Subdural hemorrhage associated with pregnancy has been reported in post trauma or as a complication of epidural anesthesia during labor. A spontaneous subdural hematoma associated with preeclampsia is considered as a rare condition, it has been reported in some cases in the literature.

3. Case Report

A 32-year-old gravida 3 para 2 patient with a history of cesarean delivery of a stillborn baby for preeclampsia six weeks ago was

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referred to our department. She has had headache and visual disorders since the fourth week postpartum. On admission the patient was fully awake with a Glasgow Coma Scale at 15. Eye examination revealed a diplopia, a left ptosis and a left esotropia which means a palsy of the VIth cranial nerve. The cardiopulmonary examination was unremarkable. Laboratory studies included hemoglobin of 10.4g/l, platelet count 290000/mm3, serum glutamic oxaloacetic transaminanse (SGOT):

30.4 IU/L, glutamic puryvate transaminase (SGPT): 28.2IU/L, urea: 0.08g/l, créatinine: 9.46mg/l, total bilirubin: 0.7mg/dl. The brain CT Scan showed an 11.6mm left fronto-temporo- parietal chronic subdural hematoma with rebleeding marks, a 4.1mm mid-line deviation to the right and a subfalcine herniation (Figure 1 and 2).



Figure 1: brain CT Scan demonstrating mixed density hematoma with hyperdense component.



Figure 2: brain CT Scan demonstrating a midline deviation.

The MRI showed a large subdural hematoma, T1 hyperintense, T2 and Flair hyperintense with a 7mm midline deviation (Figure 3).



Figure 3: MRI images showing a T1 and T2 hyperintense left subdural hematoma with midline deviation.

The patient was admitted on the same day in the operating room and the hematoma was evacuated by a left parietal burr hole. The evolution was marked by neurological improvement, the visual disorders disappeared.

Other cases of subdural hematoma have been reported in post-partum in association with epidural anesthesia [5].

Gregg Giannina and al described a subdural hematoma during pregnancy in a patient with preeclampsia without notion of trauma. The exact etiology of the hematoma in this patient is not clear. However, thrombocytopenia may have been a predisposing factor for the development of intracranial hemorrhage and / or the inhibition of platelet function due to magnesium sulphate [3]. In our case the patient had a normal count of platelet and did not receive magnesium sulfate before.

4. Discussion

Intracranial hemorrhage is a rare complication occurring in 0.01-0.05% in pregnancies [2].

Subdural hematoma is a common condition, complicating around 1% of head trauma. Most cases occur after trauma, coagulopathy, dural metastases, meningiomas and aneurysms, and are extremely rare in the context of pregnancy and postpartum.

Some cases subdural hematoma resulting from a head injury during pregnancy has been reported [1].

5. Conclusion

Subdural hematomas during pregnancy are rare, they should be considered in the differential diagnosis of headache in pregnancy and puerperium, especially when there is a focal neurological sign and/or thrombotic microangiopathy.

Possibly involving maternal and fetal prognosis, they must be detected early and treated effectively.

References

- Amias AG. Cerebral vascular disease in pregnancy: I Haemorrhage. J Obstet Gynaecol Br Commonw. 1970 Feb;77(2):100-20.
- M S Dias, L N Sekhar, 'Intracranial hemorrhage from aneurysms and arteriovenous malformations during pregnancy and the puerperium', Neurosurgery. 1990; 27(6): 855-65.
- Giannina G, Smith D, Belfort MA, Moise KJ Jr. Atraumatic subdural hematoma associated with preeclampsia. J Matern Fetal Med. 1997; 6: 93-95.
- Uzan J, Carbonnel M, Piconne O, Asmar R and Ayoubi J. Pre-eclampsia: pathophysiology, diagnosis, and management. Vasc Health Risk Manag. 2011; 7: 467-474.
- Vaughan DJ, Stirrup CA, Robinson PN. Cranial subdural haematoma associated with dural puncture in labour. Br J Anaesth. 2000; 84: 518-520.