A VERTEX APLASIA CUTIS REVEALED BY AN OVARIAN CARCINOMA METASTASIS: A CASE REPORT OF A 52 YEARS OLD LADY

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ABSTRACT
Aplasia cutis congenita (ACC) is an uncommon skin disorder characterized by the absence of some or all layers of the skin. The etiology is unknown, it can involve many part of the body. The treatment modalities are controversial even if the intervention is mandatory at the birth to avoid the main complications like hemorrhage and infections. The diagnosis is relatively easy at the birth; its revelation by a metastasis of an ovarian carcinoma is exceptional. Here we report a case of vertex aplasia cutis revealed by a metastasis of an ovarian carcinoma on a 52 years old lady.

Keywords: Aplasia Cutis, Carcinoma, Ovarian, Scalp, Vertex

INTRODUCTION
The aplasia cutis congenita (ACC) is a rare malformation described for the first time in 1767 by Cordin on the extremities and on the scalp by Campbell in 1826; in 1828 Billard reported the involvement of the bone and dura of the skull underlying the scalp defect (Yang and Yang, 2000). The etiology has not yet been defined; it can involve all part of human body with predominance of the scalp follow by forearms, knees, chest and neck (Yang and Yang, 2000). It can be isolated or in association with multiples lesions, sometimes the treatment is indicated at the birth to avoid hemorrhage or infection. Ovarian cancer represent 4% of all women cancers with about 200000 new cases every year diagnosed in the world, but only 30% of patients are diagnosed at an early stage, I or II of the international federation of gynecologists and obstetricians FIGO (Gajjar et al., 2012). Here we report a case of aplasia cutis of the vertex revealed by a metastasis of an ovarian carcinoma on a 52 years old lady.

CASE
She is a 52 years old patient who consulted for a scalp lesion evolving for a few months. According to the patient she underwent a skin graft on the vertex in the infancy for a burn sequella. At the admission the clinical exam found a patient with good general status, there was an oval and reddish lesion located on the border of a grafted surface of the vertex. The skin graft was in the center of an important alopecia (Figure1)

The brain CT scan objectified a parietal lacunar images surrounded by a skull expansive process (figure 2).

The diagnosis of cutis aplasia is retained in front of alopecia, scalp defect, and lacunar images on the brain CT scan
The first biopsy done objectify a basocellular epithelioma; in one month time the tumor triple the volume and become hemorrhagic. The patient underwent in emergency hemostasis and the tumor reduction followed by a skin graft (Figure 3).

The histologic results concluded a metastasis of an ovarian carcinoma, so the patient was referred to chemotherapy and gynecology for further treatment.
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Figure 1: Pre operative image showing an oval lesion (yellow arrow) on the border of a grafted surface (black arrow) surrounded by an alopecia

Figure 2: Brain CT scan: a: bone reconstruction showing lacunar images of the vertex

Figure 2: Brain CT scan: b: sagittal reconstruction showing an extra cranial process

Figure 3: Pre operative image showing the tumor one month after the biopsy

Figure 4: Post operative images after tumor reduction and skin graft
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DISCUSSION
Aplasia cutis congenita (ACC) is a rare malformation with unknown etiology, many hypothesis are raised but genetic etiology is preferred (Leboucq et al., 1994); it can be associated with epidermolysis bullosa, specific teratogens or intra uterine infections, chromosomal abnormalities, ectodermal dysplasias (Mirjam et al., 1995), or integrated in a syndrome like Adams-Oliver syndrome (Zapata et al., 1995) constituted by ACC and limbs malformations. Eighty percent (80 %) of aplasia cutis occur over or near the vertex, usually in a roughly symmetrical pattern (Leboucq et al., 1994), like the case of our patient. The main complications are hemorrhage and infections. The dura, if not kept constantly moist, will quickly become desiccated. A crack then commonly develops in the dry dura and spreads into the superior sagittal sinus or a major vein in the dura mater resulting in sudden massive bleeding (Dyall-Smith, 1994). The most reported infections are meningitis, sepsis and local infections (Ross et al., 1995). Other reported complications are superior sagittal sinus thrombosis, cerebrospinal fluid (CSF); the dural defect can allow a parenchymal hernia follow by it necrosis (Dyall-Smith, 1994). The treatment modalities of scalp aplasia cutis congenita still controversial, many authors advise conservative treatment to avoid risks of surgery and anesthesia on new born; many surgical techniques are advocated like skin graft, rotated skin flap, ribs auto graft to reconstruct the bone defect (Sander et al., 2007). A periosteal flap covert by skin graft is advocated by Moscona et Al (Moscona et al., 1991) to create a viable site of bone regeneration. For Ken R Winston Early surgical management using scalp rotation flaps is, when surgically and anesthetically thought to be safe, the intervention of choice for most patients with composite type aplasia cutis congenita of the scalp. According to some authors primary bone graft of the cranial defect must be avoided because even large defects can ossify completely or left a small bone defect (Ken et al., 2016). The diagnosis of the ACC is usually easy at the birth; the revelation at adulthood and the revelation by an ovarian carcinoma attest the lack of knowledge on that pathology.

CONCLUSION
The scalp aplasia cutis congenita is a rare malformation, the diagnosis is relatively easy but the treatment is difficult. The management of that exceptional association needs the close collaboration of neuro surgeons, plastic surgeons, gynecologists and oncologist.

Conflict of interest: none

REFERENCES
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