sections, except for 3 patients who gave birth spontaneously and vaginally at term. In our case, as in all the reviewed literature, the newborn did not display any type of illness, anomaly, or disorder, whether neurological, psychomotor, or respiratory. The baclofen dose used in the reported cases ranged between 140 and 1400 μg/day (our patient received 200 μg). None of the newborns, including our case, showed any teratogenic effects due to baclofen. Although there are no conclusive controlled studies, the information gathered to date appears to show that the use of intrathecal baclofen during pregnancy is completely safe for both mother and baby.

References

C. Méndez-Lucena a,b,*, J. Chacón Peña a,b, J.M. García-Moreno a

a Servicio de Neurología, Hospital Universitario Virgen Macarena, Sevilla, Spain
b Unidad de Neurología, Hospital Infantia Luisa, Sevilla, Spain

* Corresponding author.
E-mail address: dra.mendezlucena@gmail.com (C. Méndez-Lucena).

Superficial siderosis of the central nervous system as a presentation of stage IV melanoma

Meningosiderosis como forma de presentación de un melanoma en estadio IV

Dear Editor:

Superficial siderosis of the central nervous system consists of deposits of haemosiderin in the meninges, spinal cord, and cranial nerves due to repeated or chronic bleeding in the subarachnoid space. The characteristic clinical triad includes sensorineural deafness, cerebellar ataxia, and myelopathy.1,2 Superficial siderosis may be secondary to trauma, haemorrhagic tumours, vascular malformations, aneurysms, or meningo-vascular amyloidosis.3 To date, no cases related to metastatic melanoma have been published. We present the case of a patient with superficial siderosis and metastatic intraventricular melanoma.

A 71-year-old man was admitted to the hospital after experiencing progressive headache and gait instability over the preceding 2 months. The headache was oppressive, predominantly frontal, exacerbated by postural changes and the Valsalva manoeuvre, and it did not respond to a level one analgesic. He also mentioned hearing loss in the right ear in the preceding year. Nineteen years previously he had undergone wide resection of a localised melanoma in the dorsal region. In addition, he had a history of arterial hypertension, diabetes mellitus type 2, dyslipidaemia, smoking, and left-sided hypoacusis since childhood.

Physical examination revealed enlarged lymph nodes in the left lateral cervical and right retroauricular regions; both were hard in consistency, adherent to deep tissues, and not painful. Examination of the skin revealed no signs of malignancy. Neurological examination revealed peripheral

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facial paralysis on the right side, right-sided sensorineural hypoacusis with deafness on the left side, and unsteady gait with a negative Romberg test.

Routine blood and urine tests revealed no significant findings except for LDH levels of 607 U/L and GGT of 170 U/L. Immunological test results were within normal limits. The urinalysis and chest radiograph showed no noteworthy findings. A cranial CT showed a high attenuation nodular lesion 8 mm in diameter in the anterior horn of the right lateral ventricle, with homogeneous iodine uptake. In a magnetic resonance (MR) imaging study the lesion appeared isointense on T1-weighted images and slightly hyperintense on T2, with a hypointense area corresponding to bleeding visible on the gradient echo sequence. After intravenous administration of gadolinium, the lesion displayed intense and homogeneous enhancement. In addition, the gradient echo sequence showed markedly hypointense lines on the pial surface of multiple gyri and sulci in both cerebral hemispheres, and, to a lesser extent, the surface of the brainstem and both cerebellar hemispheres. This finding is compatible with superficial siderosis due to recurrent bleeding in the subarachnoid space (Fig. 1).

A cerebral angiography study did not find any active bleeds. Via lumbar puncture, we extracted cerebrospinal fluid with a xanthochromic appearance and containing 26 800 red blood cells/µL, 20 leucocytes/µL, and 97 mg/dL of protein. The cytological study detected no malignant cells.

The patient underwent positron emission tomography-computed tomography (PET-CT) with fludeoxyglucose (18F) due to suspicion of metastasis. The images show radiotracer uptake suggestive of malignancy in the intraventricular lesion described, as well as in multiple enlarged lymph nodes (lateral cervical, supraclavicular, left paratracheal, bilateral axillary, and precoccyeal), muscle insertions, and in subcutaneous tissue. An ultrasound-guided fine needle aspiration biopsy was performed on the enlarged left lateral cervical node. Cytological study of the material removed revealed neoplastic cells with Melan-A expression. A biopsy of the lymph node in the right temporal region confirmed the presence of lymph node metastatic melanoma. With the diagnosis of stage 4 melanoma, the patient began dacarbazine chemotherapy.

After 3 months the patient experienced sudden exacerbation of headaches associated with confusional symptoms and more marked gait instability. A new cerebral CT showed growth of the intraventricular lesion, with subarachnoid haemorrhage and hydrocephalus. In the following days the
patient’s neurological condition deteriorated and he died after an episode of pulmonary aspiration.

We present a case of superficial siderosis caused by cerebral metastatic melanoma, a tumour type particularly likely to cause bleeding during metastasis. Although some articles link superficial siderosis to melanocytomas of the central nervous system,\(^5\,6\) we have not found any descriptions of superficial siderosis secondary to metastatic melanoma. Superficial siderosis is an infrequent finding in normal clinical practice, but it is important to include it in the differential diagnosis of symptoms of cerebellar ataxia and progressive hypoacusis. MR imaging is the diagnostic test of choice; if superficial siderosis is confirmed, we must then search for a source of bleeding.\(^7\,8\) It is especially important to consider metastatic origin in patients with a history of cancer.

**Conflicts of interest**

The authors have no conflicts of interest to declare.

**References**


M.T. Nogales Romo,\(^a\,b\,c\), M.L. Cuadrado\(^d\), P. Matamoros\(^e\), J. Porta-Etessam\(^c\)

\(^a\) Servicio de Medicina Interna, Hospital Clínico San Carlos, Universidad Complutense, Madrid, Spain
\(^b\) Servicio de Cardiología, Hospital Clínico San Carlos, Universidad Complutense, Madrid, Spain
\(^c\) Servicio de Neurología, Hospital Clínico San Carlos, Universidad Complutense, Madrid, Spain

\(^c\) Corresponding author.
E-mail address: mtnogalesromo@gmail.com
(M.T. Nogales Romo).

**Remarks on cerebral infarct from another point of view**

**Algunas consideraciones sobre el infarto cerebral desde otra óptica**

**Dear Editor:**

It was with great interest that we read the review article ‘Guidelines for the treatment of acute ischaemic stroke’.\(^1\)

We believe that quality care for this disease is a multidisciplinary issue involving multiple participants, such as hospital emergency departments and emergency medical services among others.\(^2\) Acute ischaemic stroke is a time-dependent entity,\(^3\) and as such, emergency medical services play a key role in early detection and transfers, and in providing access to imaging tests, which are essential for starting treatment. While this role was indeed highlighted in the article, no mention was made of the fundamental value of emergency services and of having developed activation codes (code stroke) for use both inside and outside the hospital. Different articles highlight how important it is to implement these processes correctly in order to reduce morbidity and mortality in patients who suffer these events.\(^4\)

Their importance resides in reducing the time from symptom onset to definitive treatment, a factor which affects the prognosis: time is brain.\(^5\) Developing procedures undertaken jointly between the specialties involved in treating time-dependent diseases has meant a significant qualitative improvement in the management of these entities. Codes for acute coronary syndromes, for example, which have been fully implemented in some regions, have had an undeniable impact on treatment results for acute coronary syndrome with ST-segment elevation.\(^6,5\) Therefore, we agree with the authors’ conclusion that treatments for stroke should be administered in stroke units (SU) when available. However, we also believe that the existence of ‘code stroke’ is what makes this approach possible.

The authors of the review article also cite the role of telemedicine, but only in passing. It is important to highlight how useful telemedicine could be on islands and in areas with difficult access.\(^6\) Furthermore, we should be aware that in some Spanish regions, up to 40% of all emergency cases have a community hospital designated as their first response hospital.\(^7\) In many rural areas, the percentage of subjects older than 65 is higher than in urban health districts.\(^8\) There are a few Spanish regions that already have telemedicine systems for stroke care\(^7\) which are obtaining results similar...

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