

Table 3 Dermatologist's diagnosis.

Skin disease	n (%)	Skin disease	n (%)
Contact dermatitis	39 (9.4)	Psoriasis	9 (2.2)
Fungal infections	35 (8.4)	Recurrent aphthous stomatitis	8 (1.9)
Drug reactions	28 (6.7)	No dermatologic disease	8 (1.9)
Cellulitis	27 (6.4)	Seborrhoeic dermatitis	7 (1.7)
Xerosis cutis	15 (3.6)	Behçet disease	7 (1.7)
Pruritus	15 (3.6)	Malignancy	7 (1.7)
Vasculitis	14 (3.4)	Oral candidiasis	7 (1.7)
Stasis dermatitis	14 (3.4)	Acneiform disease	6 (1.4)
Herpes labialis	13 (3.1)	Rosacea	5 (1.2)
Infections (folliculitis, furunculosis, paronychia)	13 (3.1)	Traumatic ulcer	5 (1.2)
Neurodermatitis	12 (2.9)	Spontaneous and traumatic ecchymosis	5 (1.2)
Urticaria	11 (2.6)	Vascular disease (thrombophlebitis, ischemia)	5 (1.2)
Pressure sore	11 (2.6)	Autoimmune bullous disease	4 (1.0)
Intertrigo	11 (2.6)	Seborrhoeic keratosis	4 (1.0)
Herpes zoster	10 (2.4)	Radiodermatitis	3 (0.7)
Miscellaneous	59 (14.1)	Total	417

patients. Skin biopsies were performed in 8.2% of cases; this was lower than the rate reported by Davila¹ (20%) but higher than the rate described by Adışen (4.4%).²

In our experience, common dermatologic diseases are often not correctly diagnosed by physicians from other specialties. In addition, there is room for improvement in the formal description and in the differential diagnosis of skin diseases. Expert dermatologic assessment usually facilitates inpatient diagnosis and management. Better training should be considered for medical students and residents and possibly even for medical staff in other specialties.

Bibliografía

- Davila M, Christenson LJ, Sontheimer RD. Epidemiology and outcomes of dermatology in-patient consultations in a Midwestern U.S. university hospital. *Dermatol Online J.* 2010;16:12.
- Adışen E, Ünal S, Gürer MA. Dermatoloji konsultasyonları. *Turkderm.* 2006;40:126–9.
- Falanga V, Schachner LA, Rae V, Ceballos PI, Gonzalez A, Liang G, et al. Dermatologic consultations in the hospital setting. *Arch Dermatol.* 1994;130:1022–5.
- Walia NS, Deb S. Dermatology referrals in the hospital setting. *Indian J Dermatol Venereol Leprol.* 2004;70:285–7.
- Ahmad K, Ramsay B. Analysis of inpatient dermatologic referrals: insight into the educational needs of trainee doctors. *Ir J Med Sci.* 2009;178:69–71.
- Lorente-Lavirgen AI, Bernabeu-Wittel J, Pulpillo-Ruiz A, de la Torre-García JM, Conejo-Mir J. Inpatient dermatology consultation in a Spanish tertiary care hospital: a prospective cohort study. *Actas Dermosifiliogr.* 2013;104:148–55.
- Fernandes IC, Velho G, Selores M. Dermatology inpatient consultation in a Portuguese university hospital. *Dermatol Online J.* 2012;18:16.
- Itin PH. Dermatologic consultations in the hospital ward: the skin, an interdisciplinary organ. *Dermatology.* 2009;219:193–4.

S. Özyurt*, K.H. Kelekçi, S. Şeremet, S. Özçelik

Dermatology Department, İzmir Atatürk Education and Research Hospital, İzmir, Turkey

* Corresponding author.

E-mail address: ozyurtselcuk@yahoo.com (S. Özyurt).

<http://dx.doi.org/10.1016/j.ad.2013.12.016>

Frontal congenital lipoma and lipoma of the corpus callosum in an infant: A case report



Lipoma frontal congénito y lipoma del cuerpo calloso en un lactante: Informe de un caso

To the Editor,

An otherwise healthy 4-month-old girl who had been born full-term without birth trauma or prenatal or neonatal complications was brought to our practice because of a frontal tumor that had been present since birth. Physical

examination revealed a deep frontal tumor of medium consistency that was mobile, unattached to the deeper layers, and without epidermal changes (Fig. 1). The rest of the examination was normal. No hypertelorism, nasal alterations, or dysmorphic facial features were observed.

A soft-tissue cranial ultrasound performed when the infant was 2 days old showed slight thickening of the subcutaneous tissue; this was also visible in a second ultrasound performed 2 months later. The diagnosis was congenital frontal lipoma.

The patient was lost to follow-up but returned when she was 8 months old. A brain magnetic resonance imaging (MRI) study showed an interhemispheric hyperintense mass on both T1- and T2-weighted sequences and a hypointense mass



Figure 1 A soft, mobile, asymptomatic nodule in the frontal midline area of a 4-month-old girl.

on fat-suppressed T2-weighted images. These findings were consistent with a lipoma (1.8 cm × 0.7 cm × 0.6 cm on the anteroposterior, longitudinal, and transverse planes, respectively) associated with hypoplasia of the splenium of the corpus callosum. No tracts or other forms of communications were observed between the cerebral and frontal lipomas.

The patient was referred to a pediatric neurosurgeon, who decided to keep her in clinical follow-up. A second MRI study was performed 6 months later and no changes were observed (Fig. 2). The patient was also referred to the otolaryngologist to rule out Pai syndrome; the results of nasal fibroscopy were within normal limits. A year after diagnosis, the patient is still in follow-up, with excellent developmental milestones and no evidence of neurological complications.

Although lipomas are the most common type of benign soft-tissue tumors in adults, congenital presentation is rare.¹ Furthermore, they are uncommon in children and

account for just about 6% of all soft-tissue tumors in pediatric patients.¹ Midline lipomas may be associated with central nervous system malformations, and in such cases, diverse radiologic studies and clinical follow-up are mandatory.²

Intracranial lipomas are also rare, accounting for just 0.06–0.46% of intracranial lesions.³ Most are located in the midline/interhemispheric region, most often in the corpus callosum. In about 50% of cases other disturbances, frequently associated with varying degrees of hypoplasia or agenesis of the corpus callosum, are identified in the surrounding nervous structures.⁴

Subcutaneous lipomas in association with intracranial lipomas are even rarer. The association could be related to the abnormal migration and proliferation of neural crest cells. Abnormal neural crest development results in many craniofacial malformations, known as neurocristopathies, including facial midline clefts.^{5–7} Intracranial and extracranial lipomas may be independent entities or connected through a frontal bone defect on the skull.^{2,6}

Frontonasal dysplasia (FND) is a developmental alteration of the craniofacial region that comprises a spectrum of anomalies of the frontonasal area, including hypertelorism, nasal anomalies, and/or lip-palate cleft. The exact origin of FND is unknown and most cases are sporadic,⁷ although a mutation in the *TGIF* gene has been observed in familial cases of FND, which are very rare.⁸

Patients with FND may present with hypoplasia or agenesis of the corpus callosum and/or a corpus callosum lipoma.⁸ In a case series of patients with FND, all 8 patients had lipoma of the corpus callosum.⁹ Markers strongly associated with FND are falx cerebri calcifications and extracranial lipomas.⁸

Midline lipomas of the face and other craniofacial anomalies may be associated with intracranial malformations, including intracranial lipomas.

Brain MRI for the study of intracranial structures combined with clinical follow-up to monitor neurological changes seems to be the gold standard.²

Pai syndrome should be included in the differential diagnosis of FND-spectrum anomalies. This syndrome consists of pericallosal lipomas associated with facial abnormalities such as cutaneous polyps of the face and nasal mucosa,

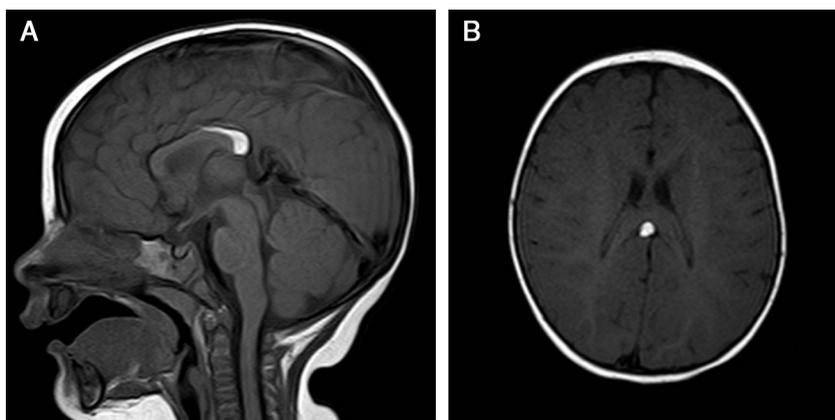


Figure 2 Interhemispheric hyperintense structure on T1-weighted image consistent with a lipoma associated with hypoplasia of the splenium of the corpus callosum (bright fat tissue on T1 sequence). (A) Sagittal plane. (B) Transverse/axial plane.

midline cleft, and midline pericallosal lipoma.¹⁰ As with our patient, a nasal fibroscopy should be performed to rule out this syndrome.

Although the majority of patients with intracranial lipomas are asymptomatic,^{10,11} a small number of patients may present neurological symptoms such as seizures, headache, and/or behavioral or psychosocial disorders.⁸ Routine neurosurgical treatment is not recommended because the surgical risk usually outweighs the benefits of the intervention.⁴ Surgical resolution of extracranial lipoma may provide cosmetic improvement and better quality of life.

The prognosis and psychomotor development of patients with intracranial lipomas is not clear, but based on data from patients with FND and Pai syndrome, their prognosis would appear to be favorable, with normal psychomotor development and no neurological impairment.⁸⁻¹⁰ Some patients with FND may have psychological alterations such as misanthropy and shyness.^{8,9}

Lipomas are rare in children and are even rarer at birth. Facial midline lipomas should be assessed by a multidisciplinary team consisting of a dermatologist, neurosurgeons, an otolaryngologist, and radiologists. Neurologic images should be taken and in cases associated with corpus callosum or pericallosal lipoma, FND and Pai syndrome must be ruled out. Whether our patient represents an isolated case of frontal congenital lipoma with associated cerebral lipoma or an incomplete case within the spectrum of FND is currently unknown.

Bibliografía

1. Aflatoon K, Abouafia AJ, McCarthy Jr EF, Frassica FJ, Levine AM. Pediatric soft-tissue tumors. *J Am Acad Orthop Surg.* 2003;11:332-43.
2. Given CA, Fields TM, Pittman T. Interhemispheric lipoma connected to subcutaneous lipoma via lipomatous stalk. *Pediatr Radiol.* 2005;35:1110-2.
3. Chen CF, Lee YC, Lui CC, Lee RJ. Posterior pericallosal lipoma extending through the interhemispheric fissure into the scalp via the anterior fontanelle. *Neuroradiology.* 2004;46:692-5.
4. Mitilian D, Haddad D, Lenoir M, Boudjemaa S, Vazquez MP, Picard A. Interhemispheric lipoma associated with frontal subcutaneous lipoma. *J Plast Reconstr Aesthet Surg.* 2009;62:e427-9.
5. Sarnat HB, Flores-Sarnat L. Embryology of the neural crest: its inductive role in the neurocutaneous syndromes. *J Child Neurol.* 2005;20:637-43.
6. Ahmetoğlu A, Kul S, Kuzeyli K, Öztürk MH, Sari A. Intracranial and subcutaneous lipoma associated with sagittal sinus fenestration and falcine sinus. *Am J Neuroradiol.* 2007;28:1034-5.
7. Fryburg JS, Persing JA, Lin KY. Frontonasal dysplasia in two successive generations. *Am J Med Genet.* 1993;46:712-4.
8. Carranza-Romero C, Armario-Hita JC, Fernandez-Vozmediano JM. Frontal congenital lipoma. *Pediatr Dermatol.* 2012;29:490-4.
9. Pascual-Castroviejo I, Pascual-Pascual SI, Pérez-Higueras A. Fronto-nasal dysplasia and lipoma of the corpus callosum. *Eur J Pediatr.* 1985;144:66-71.
10. Chousta A, Ville D, James I, Foray P, Bisch C, Depardon P, et al. Pericallosal lipoma associated with Pai syndrome: prenatal imaging findings. *Ultrasound Obstet Gynecol.* 2008;32:708-10.
11. de Villiers JC, Cluver PF, Peter JC. Lipoma of the corpus callosum associated with frontal and facial anomalies. *Acta Neurochir Suppl (Wien).* 1991;53:1-6.

C. Navarrete-Dechent^a, M. Curi-Tuma^b,
M. Sandoval-Osses^{a,*}

^a *Department of Dermatology, Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile*
^b *Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile*

* Corresponding author.
E-mail address: msandovalosses@yahoo.com
(M. Sandoval-Osses).

<http://dx.doi.org/10.1016/j.ad.2013.11.011>

Rapamicina tópica al 0,2% para el tratamiento de angiofibromas faciales y máculas hipomelanóticas en la esclerosis tuberosa



Topical 0.2% Rapamycin to Treat Facial Angiofibromas and Hypomelanotic Macules in Tuberous Sclerosis

La esclerosis tuberosa (ET) es un trastorno neurocutáneo de herencia autosómica dominante causado por mutaciones en el gen supresor tumoral, TSC1 (cromosoma 9q34) o TSC2 (cromosoma 16p13.3), que codifican para las proteínas hamartina y tuberina, respectivamente. Dichas proteínas son responsables de formar un complejo que inhibe la molécula diana de la rapamicina en mamíferos (mTOR), fundamental en la regulación del ciclo celular. El resultado es una proliferación celular descontrolada, caracterizándose por la aparición de hamartomas en múltiples órganos,

incluyendo la piel, el riñón y el sistema nervioso central^{1,2}. Rapamicina (sirolimus) es un fármaco inmunosupresor que actúa mediante la inhibición de mTOR. Se ha utilizado clásicamente por vía oral para evitar el rechazo en el trasplante renal, dadas sus propiedades antineoplásicas al inhibir la neoangiogénesis y la proliferación de células tumorales, y se ha comprobado su eficacia en la disminución del número y tamaño de los tumores en los pacientes diagnosticados de ET. Recientemente se ha publicado la utilidad de rapamicina tópica para el tratamiento de angiofibromas faciales³⁻⁷ y en la reducción de máculas hipomelanóticas⁸ en pacientes con ET.

Presentamos el caso de un paciente, varón de 13 años de edad, diagnosticado clínicamente de ET a los 4 meses por presentar un cuadro con varias manifestaciones características de la enfermedad: epilepsia, múltiples máculas hipomelanóticas y angiofibromas faciales. El estudio genético confirmó la presencia de ET esporádica, debido a una mutación c5043C>G en el exón 38 del gen TSC2, que modifica la secuencia de la proteína p.N1681K. La resonancia magnética nuclear cerebral demostró la presencia de múltiples