Case Report

# **Scholars Journal of Medical Case Reports**

Abbreviated Key Title: Sch J Med Case Rep ISSN 2347-9507 (Print) | ISSN 2347-6559 (Online) Journal homepage: https://saspublishers.com/sjmcr/

# Facial Mass Impending the Visual Axis: A Case Report about a Congenital Frontonasal Meningoencephalocele

Théra JP<sup>1\*</sup>, Dakouo P<sup>1</sup>, Konipo A<sup>1</sup>, Tiama JML<sup>1</sup>, Tinley C<sup>2</sup>

<sup>1</sup>Institute of African Tropical Ophthalmology, Bamako Mali <sup>2</sup>Pediatric Ophthalmologist, Consultant CCBRT Hospital, Dar Es Salam Tanzania

#### **DOI:** <u>10.36347/sjmcr.2020.v08i03.022</u>

| **Received:** 19.02.2020 | **Accepted:** 26.02.2020 | **Published:** 18.03.2020

\*Corresponding author: Dr. Japhet Pobanou Thera

A 1			4	
AI	$\mathbf{ns}$	ra	ct	

Meningocele is a hernial protrusion of part of meninges and neural elements in a sac. It is a rare medical condition particularly the facial form. A full-term female baby was brought to our office for congenital facial mass. The mass was diagnosed as a frontonasal meningoencephalocele.

Keywords: Facial mass, visual axis, meningoencephalocele.

Copyright @ 2020: This is an open-access article distributed under the terms of the Creative Commons Attribution license which permits unrestricted use, distribution, and reproduction in any medium for non-commercial use (NonCommercial, or CC-BY-NC) provided the original author and source are credited.

# **INTRODUCTION**

Congenital midline facial masses are rare malformations, occurring with an incidence of one case in 20 to 40,000 births [1]. We report a case of frontonasal meningoencephalocele in a three-day-old infant.

# CASE REPORT

It was a newborn female weighing 3,200 g, in whom we found a soft frontonasal mass measuring 60 mm long slightly compressing the left eye (fig 1). The child proceeded from a normal delivery where two prenatal consultations were done. The 27-year-old primiparous mother with no specific history did not undergo ultrasound exam during her pregnancy. The ophthalmic examination found a slight obstruction of the left palpebral slant. He was cyanotic and was resuscitated at birth. Orbito-cerebral computed tomography (CT) confirmed frontal а meningoencephalocele (fig 2).



Fig-1: Photograph of the child child



Fig-2: CT-Scan of the child

#### **DISCUSSION**

The meningoencephaloceles are congenital anomalies characterized by a hernia of the meninges and the cerebral parenchyma out of the cranial box through a bone defect [1, 2].

Njamnshi *et al.* [3] reported in Cameroon, an incidence of 2 cases per 1000 births against 0.95 per 1000 births found by Ugwu RO *et al.* [4] in Nigeria. They are occipital in 75% of the cases and involve the midline in 90% of the cases [1].

Etiologically, the real cause of these anomalies is not known with certainty. Environmental teratogens, hyperthermia during pregnancy, low economic status, and nutritional status are suspected [5, 6]. In 60% [7] there is an association of chromosomal abnormalities or craniofacial malformations. Mbassi *et al.* reported an association with hydrocephalus [8]. In our case no other malformation was associated.

# **CONCLUSION**

Rare congenital pathologies, meningoencephaloceles should be suspected in any case of congenital nasal mass of the midline. Brain imaging is critical to confirming the diagnosis.

### REFERENCES

- 1. Lowe Lisa H, Booth Timothy N, Joglar Jeanne M, Rollins Nancy K, Midface anomalies in children. RadioGraphics. 2000 ; 20 :907–922.
- Kennard CD, Rasmussen J. Congenital midline nasal masses : diagnosis and management. J Dermatol Surg Oncol. 1990; 16 :1025–1036.
- 3. Njamnshi AK, Djientcheu V, Lekoubou A, Guemse M, Obama MT, Mbu R. Neural tube defects are

rare among black Americans but not in sub-Saharan black Africans: the case of Yaounde-Cameroon. J Neurol Sci. 2008; 15:270.

- Ugwu RO, Eneh AU, Oruamabo RS. Neural tube defects in a university teaching hospital in southern Nigeria: trends and outcome. Niger J Med. 2007; 16(4):368-71.
- Butler N, Benham, DG. Perinatal Mortality: the first report of the british perinatal mortality survey. E and S. Livingston Lid. Edinburgh and London; 1963.
- 6. Hendricks CH obstet. Gyneco. 1955; 6:592
- Holmes AD, Meara JG, Kolker AR, Rosenfeld JV, Klug GL Frontoethmoidal encephaloceles: reconstruction and refinements. J Craniofac Surg. 2001; 12(1):6-18.
- Mbassi AHD, Pondy A, Mah E, Kana SP, Eloundou NJ, Koki NPO, Méningo-Encéphalocèle Sincipitale chez un Nourrisson de 6 Semaines: une Cause Rare de Masse Faciale Congénitale. Health Sci. 2013; 14(3).