

# Accepted Manuscript

Suprasellar Germinomas: Two Case Reports And Literature Review

Paulo Moacir Mesquita Filho, Fabio Pires Santos, Luiza Rech Köhler, Gregori Manfroi, Fernanda De Carli, Moises Augusto de Araujo, Daniela Schwingel



PII: S1878-8750(18)31256-7

DOI: [10.1016/j.wneu.2018.06.041](https://doi.org/10.1016/j.wneu.2018.06.041)

Reference: WNEU 8354

To appear in: *World Neurosurgery*

Received Date: 19 March 2018

Revised Date: 5 June 2018

Accepted Date: 6 June 2018

Please cite this article as: Mesquita Filho PM, Santos FP, Köhler LR, Manfroi G, De Carli F, Augusto de Araujo M, Schwingel D, Suprasellar Germinomas: Two Case Reports And Literature Review, *World Neurosurgery* (2018), doi: 10.1016/j.wneu.2018.06.041.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**SUPRASELLAR GERMINOMAS:****TWO CASE REPORTS AND LITERATURE REVIEW**

**AUTHORS:** Paulo Moacir Mesquita Filho<sup>1,2,3,5</sup>, Fabio Pires Santos<sup>4,5</sup>, Luiza Rech Köhler<sup>3,5</sup>, Gregori Manfroi<sup>3,5</sup>, Fernanda De Carli<sup>3,5</sup>, Moises Augusto de Araujo<sup>6</sup>, Daniela Schwingel<sup>7</sup>.

<sup>1</sup>Neurosurgeon, Department of Neurosurgery, Hospital da Cidade de Passo Fundo, Brazil, <sup>2</sup>Neurology and Neurosurgery Service (SNN), Brazil, <sup>3</sup>Academic League of SNN (LASNN), Passo Fundo, Brazil, <sup>4</sup>ENT surgeon, Hospital da Cidade de Passo Fundo, Brazil, <sup>5</sup>Medical School, University of Passo Fundo, Brazil, <sup>6</sup>Neurosurgery Resident, Hospital da Cidade de Passo Fundo, Brazil, <sup>7</sup>Pathology Institute of Passo Fundo, Brazil.

**KEYWORDS:** Germinoma; Pediatric Neurosurgery; Suprasellar Germinomas; Germ cell tumors; Skull Base; Endoscopic Transsphenoidal Neurosurgery

**INTRODUCTION**

Germinomas are a rare and malignant CNS tumor, a type of Germ Cell Tumors (GCTs), according to the 2016 WHO Classification of Brain Tumors.<sup>1</sup> They arise from embryonal rests of germ cells located in the midline due to aberrant migration during early development.<sup>2,3,4</sup> The majority of these tumors (~94%) develop along the midline, most from the pineal gland (which produces primarily nongerminomatous GCTs), followed by tumors arising in the suprasellar cisterns (which are most often germinomas).<sup>5,6</sup> Suprasellar germinomas commonly present with diabetes insipidus, visual impairment, and hypothalamic-pituitary failure.<sup>7,8,9,10,11</sup>

In Western society, intracranial germ cell tumors (IC GCTs) comprise less than 5% of childhood tumors of the central nervous system. The incidence rises to over 10% in parts of Eastern Asia.<sup>5,8,12</sup> CNS GCTs occur most commonly in the young population, with approximately 90% of cases occurring in patients before the age of 20 years old and a incidence peak between 10–12 years of age.<sup>6</sup> Germinomas comprise nearly two-thirds of all intracranial GCTs and tend to have the best prognosis of all the subtypes. More than 90% will respond positively to chemotherapy and radiation therapy, making early diagnosis the mainstay.<sup>13</sup>

**CASE REPORT**

Download English Version:

<https://daneshyari.com/en/article/8691316>

Download Persian Version:

<https://daneshyari.com/article/8691316>

[Daneshyari.com](https://daneshyari.com)