

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 62644

Manuscript Type: CASE REPORT

Primary primitive neuroectodermal tumor in the pericardium—a focus on imaging findings: A case report

Pericardial PNET imaging findings

Abstract

BACKGROUND

Primitive neuroectodermal tumors (PNETs) are rare, sporadic malignant tumors of the peripheral nervous system, bone, or soft tissues. However, to the best of our knowledge, only three cases of PNET in the pericardium have been reported in the English literature, and their magnetic resonance imaging (MRI) findings have not previously been described.

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Primary spinal primitive neuroectodermal tumors (PNETs) are highly malignant tumors, which are extremely rare entities and primary intramedullary PNETs are extremely rare. Till now, only 24 cases of primary intramedullary PNET have been reported. Patient concerns A 26-year-old male presented with progressive low back and lower limb pain for 1 month.

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A hemangioblastoma or primitive neuroectodermal tumor is a rare possibility that can be considered when an unusual image or clinical state is present. 7 Due to the aggressive behavior of the neoplasm and its great potential to metastasize, treatment should be multimodal, involving radical surgical resection, radiotherapy, and chemotherapy.

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Jan 01, 2000 · Two cases of primitive neuroectodermal tumor of the lung are reported. The first case is a 41-year-old man with a tumor in the left upper lung, and the second case is a 30-year-old woman with a tumor in the right lower lung. In both cases, the tumors originated in the lung but not in the chest wall. No distant metastasis was detected.

Cited by: 75

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Dec 01, 2017 · **Primitive neuroectodermal tumor** is rare and malignant tumor with poor prognosis; majority of PNETs are described as isolate cases by rare **case reports** in previous neurosurgical literatures. Here, a young man with rare primary intramedullary **PNET** has been reported, and the comprehensive descriptions about this disease are as following.

Cited by: 2

Author: Guoqing Wang, Fuyou Guo

Publish Year: 2017

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Glioblastoma is an aggressive, high-grade glioma and is the most common **primary** malignant brain **tumor** in adults.[3,9,10,11] Variants retaining foci of variable histology are recognized and are usually cited as single **case** reports.[4,6,8] The etiology of these **tumors** with distinct areas of sarcoma or **primitive neuroectodermal tumor** (PNET) is unknown; existing literature suggest that discrete foci of ...

Cited by: 2 Author: Anthony M. Alvarado, Michael E. Salacz, Ro...
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Primary Primitive Neuroectodermal Tumor Arising from an ...

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Aug 01, 2017 · Introduction. Mature cystic teratomas (MCTs; ie, dermoid cysts) are the most common benign ovarian neoplasm and most common form of teratoma, which rarely transform to **primary primitive neuroectodermal tumors** (PNETs).1, 2 The MCTs occur most frequently between the ages of 20 and 40 years old. The risk of malignant transformation of MCT is between 0.17% to 2%; 80% of those ...

Cited by: 3 Author: Ashley Jaramillo-Huff, Rania Bakkar, Jason...
Publish Year: 2017

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Oct 01, 2013 · On CT images, **primary pericardial primitive neuroectodermal tumors** are heterogeneous in appearance with foci of necrosis. They generally demonstrate aggressive features, with invasion of the myocardium and extension into adjacent mediastinal and vascular structures (Fig 20).

Cited by: 106 Author: Carlos S. Restrepo, Daniel Vargas, Daniel O...
Publish Year: 2013

Primitive neuroectodermal tumor

Malignant Neural Crest Tumor

Primitive neuroectodermal tumor is a malignant neural crest tumor. It is a rare tumor, usually occurring in children and young adults under 25 years of age. The overall 5 year survival rate is about 53%.

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