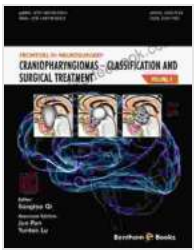
Craniopharyngiomas Classification And Surgical Treatment Frontiers In

Craniopharyngiomas are rare tumors that arise from the sellar and suprasellar regions of the brain. They are classified into two main types: adamantinomatous and papillary. Adamantinomatous craniopharyngiomas are more common and are typically cystic, while papillary craniopharyngiomas are more solid.



Craniopharyngiomas - Classification and Surgical Treatment (Frontiers in Neurosurgery Book 4) by G On Tong

★★★★★ 5 out of 5

Language	: English
File size	: 14995 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 437 pages

Craniopharyngiomas can cause a variety of symptoms, including:

* Headache * Vision problems * Endocrine disorders * Cognitive impairment * Behavioral changes

Treatment typically involves surgery, radiation therapy, or a combination of both.

Classification

Craniopharyngiomas are classified into two main types: adamantinomatous and papillary. Adamantinomatous craniopharyngiomas are more common and are typically cystic, while papillary craniopharyngiomas are more solid.

Adamantinomatous craniopharyngiomas are composed of sheets and nests of epithelial cells that are arranged in a palisading pattern. The cells are typically large and polygonal, with abundant cytoplasm and a large, round nucleus. Adamantinomatous craniopharyngiomas often contain calcifications and may be associated with Rathke's cleft cysts.

Papillary craniopharyngiomas are composed of papillae that are lined by a single layer of cuboidal or columnar cells. The cells are typically small and uniform, with a scant cytoplasm and a small, round nucleus. Papillary craniopharyngiomas are often solid and may be associated with suprasellar extension.

Surgical Treatment

The goal of surgical treatment for craniopharyngiomas is to remove as much of the tumor as possible while preserving the surrounding normal brain tissue. The approach to surgery depends on the size and location of the tumor.

Transcranial surgery is the most common approach to craniopharyngiomas. This involves opening the skull to access the tumor. The tumor is then removed using a combination of techniques, including microsurgery and ultrasonic aspiration.

Endoscopic surgery is a less invasive approach that can be used for smaller tumors. This involves inserting a thin tube with a camera on the end

into the skull to access the tumor. The tumor is then removed using a variety of instruments, including lasers and forceps.

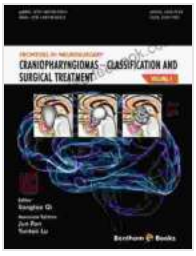
Radiation Therapy

Radiation therapy is often used in combination with surgery to treat craniopharyngiomas. This involves using high-energy radiation to kill tumor cells. Radiation therapy can be delivered externally, using a machine that directs radiation beams at the tumor, or internally, using radioactive seeds that are implanted into the tumor.

Prognosis

The prognosis for patients with craniopharyngiomas depends on the size, location, and type of tumor. The overall 5-year survival rate for patients with craniopharyngiomas is about 70%. However, the survival rate is lower for patients with larger tumors, tumors that are located in the suprasellar region, and papillary craniopharyngiomas.

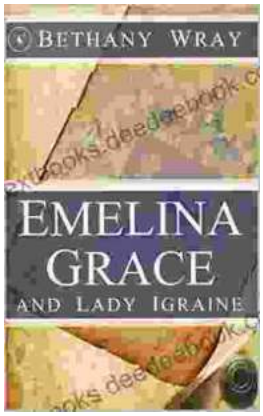
Craniopharyngiomas are rare tumors that can cause a variety of symptoms. Treatment typically involves surgery, radiation therapy, or a combination of both. The prognosis for patients with craniopharyngiomas depends on the size, location, and type of tumor.



Craniopharyngiomas - Classification and Surgical Treatment (Frontiers in Neurosurgery Book 4) by G On Tong

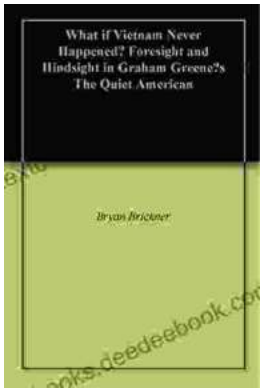
★★★★★ 5 out of 5

Language	: English
File size	: 14995 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 437 pages



Unveiling the Enchanting Legends of Emelina Grace and Lady Igraine: A Tale of Love, Magic, and Timelessness

Emelina Grace: The Enchanted Forest Nymph In the depths of an ancient and mystical forest, where sunlight filtered through emerald leaves,...



What If Vietnam Never Happened: Foresight and Hindsight in Graham Greene's The Quiet American

Published in 1955, Graham Greene's The Quiet American is considered a masterpiece of 20th-century literature. The story follows Thomas Fowler, a middle-aged British journalist,...