

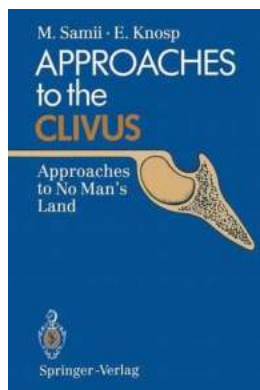
# 5 Fascinating Approaches To The Clivus That Will Leave You Awestruck

The clivus, also known as the clivus cerebelli, is a critical area of the skull base that serves as a bridge between the posterior cranial fossa and the nasal cavity. It is a complex region that houses important nerves, vessels, and structures, making it a challenging area for surgical intervention.

In this article, we will explore five intriguing approaches to the clivus that have revolutionized the way surgeons tackle pathologies in this region. From traditional open surgeries to minimally invasive techniques, these approaches have significantly improved patient outcomes and opened new horizons in the field of neurosurgery.

## 1. Transoral Approach: Breaking Barriers Through the Mouth

The transoral approach involves accessing the clivus through the oral cavity. It is a minimally invasive technique that provides direct access to the clivus without any external incisions or facial scars. Surgeons navigate through the tongue and palate to reach the clivus, allowing them to remove tumors and lesions in a safe and efficient manner.



## Approaches to the Clivus: Approaches to No Man's Land by Madjid Samii (Kindle Edition)

★★★★☆ 4 out of 5

Language	: English
File size	: 14935 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 256 pages



Although initially used for benign tumors, such as chordomas and meningiomas, the transoral approach has now been successfully extended to deal with more complex pathologies, including malignancies and vascular lesions. The use of surgical navigation systems further enhances precision and reduces complications.

## **2. Endoscopic Endonasal Approach: Illuminating the Hidden Clivus**

The endoscopic endonasal approach is a breakthrough technique that revolutionized clival surgeries. It involves entering the clivus through the nose, using endoscopic instruments to navigate through the nasal cavity and reach the target area. This approach provides an exceptional panoramic view of the clivus and offers excellent visibility of critical structures through a minimally invasive route.

With the endoscope serving as the surgeon's eye, pathologies like pituitary adenomas, meningoceles, and cerebrospinal fluid leaks can now be effectively treated without external incisions. The technique is particularly advantageous for lesions in the lower clivus and offers reduced morbidity and faster recovery compared to traditional approaches.

## **3. Transcranial Approaches: Classic Techniques Evolved**

The transcranial approaches comprise several classic techniques that have evolved over the years. These techniques involve accessing the clivus through open craniotomies, providing direct visualization and access to the target area.

Approaches like the petrosal approach and the suboccipital retrosigmoid approach have been employed for a wide range of clival pathologies, including meningiomas, epidermoids, and chordomas. These techniques require larger incisions and bone removal but offer excellent exposure and control over critical structures.

#### **4. Combined Approaches: Uniting Forces for Optimal Outcomes**

When the complexity of a clival pathology demands a multidimensional approach, surgeons often combine different surgical techniques to achieve the best possible outcome. This may involve combining endoscopic endonasal techniques with transcranial approaches or combining different transcranial approaches.

The goal is to leverage the advantages of each approach and optimize surgical access, visualization, and tumor removal. Combined approaches have proven particularly useful for complex or recurrent tumors, providing surgeons with a comprehensive arsenal of surgical tools.

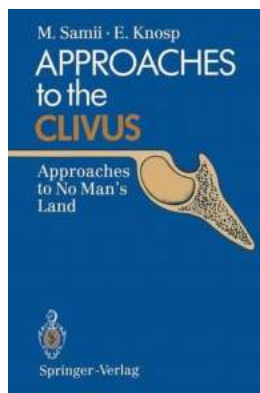
#### **5. Robotic-Assisted Transoral Surgery: Pioneering Precision and Safety**

Robotic-assisted surgery has emerged as a game-changer in various surgical disciplines, and the clivus is no exception. The development of robotic surgical systems allows surgeons to perform precise and controlled surgeries through smaller incisions.

Robotic-assisted transoral surgery offers enhanced visualization, stability, and maneuverability for surgeons operating in the clival region. It improves surgical precision and reduces the risk of damage to critical structures, leading to improved patient outcomes and faster recovery.

In , the clivus is a complex and challenging area of the skull base that requires careful surgical planning and execution. Advancements in surgical techniques have transformed the field of clival surgeries, offering patients improved outcomes, reduced morbidity, and faster recovery.

From minimally invasive endoscopic techniques to combined approaches and robotic-assisted surgery, the approaches to the clivus discussed in this article showcase the relentless pursuit of innovation and technical excellence in neurosurgery.



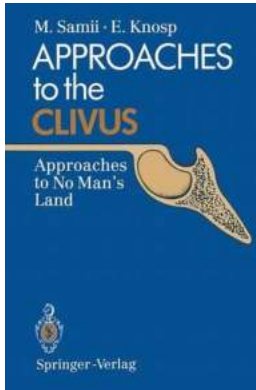
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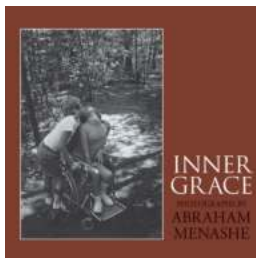


A different kind of book! The clivus of skull base is an area difficult to reach in neurosurgery, otorhinolaryngology, maxillo-facial surgery, plastic surgery, reconstructive surgery, and orthopedic surgery. It is for this reason that the various specialities have found different approaches for different operations.



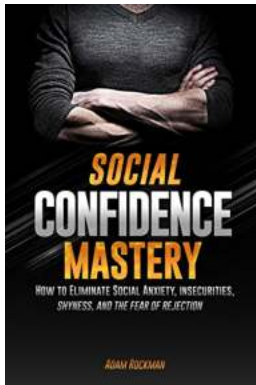
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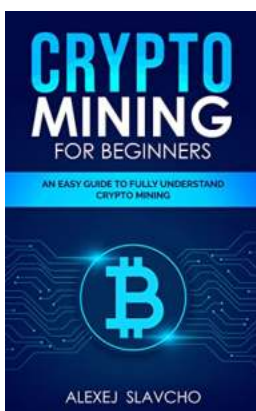
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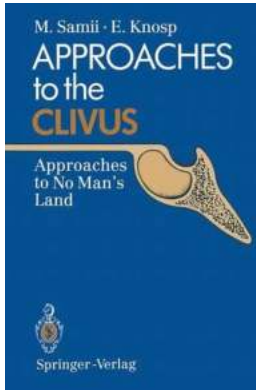
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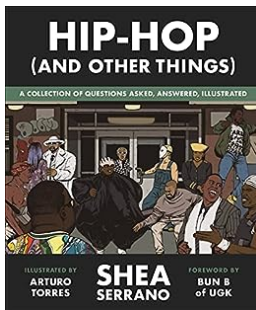
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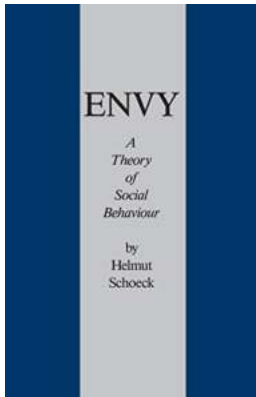
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