

Imaging Of Meningeal Diseases

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Imaging Of Meningeal Diseases

In the past two decades, the advent of CT and MRI has made a considerable impact on the evaluation of meningeal diseases, conditions once regulated to cytological, histopathological, or postmortem analyses alone. This article reviews the imaging findings in various meningeal processes with particula ...
Neuroimaging of meningeal disease

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- PubMed

A spectrum of infectious diseases may affect the cranial meninges. Contrast-enhanced MR imaging and fluid-attenuated inversion-recovery MR techniques are superior to contrast-enhanced computed tomography for detecting and characterizing most pathologic meningeal conditions.

Imaging of cranial meningitis and ventriculitis

Imaging features of meningeal Ewing sarcoma/peripheral primitive neuroectodermal tumours Figure 8. A 13-year-old female with meningeal Ewing sarcoma/peripheral primitive neuroectodermal tumour of the right frontal region. Axial T2weighted imaging showed mixed hypointense signal.

The imaging features of meningeal Ewing sarcoma/peripheral ...

Recognition of these enhancement patterns and other MR imaging characteristics may enhance the role of

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MR imaging in the detection, diagnosis, and follow-up of neoplastic and nonneoplastic disorders affecting the meninges. The focus of this article (Part I) is the MR appearance of the normal meninges and nonneoplastic causes of meningeal disease.

MR imaging of the meninges. Part I. Normal anatomic ...

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Meningiomas are the most common dural tumour. They are regularly being seen as an incidental finding on brain imaging and treated conservatively.

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However, there are many other dural masses which mimic their appearances, including primary neoplastic processes, metastases, granulomatous diseases and infection.

Dural masses: meningiomas and ... - Insights into Imaging

Imaging of the diseases of the leptomeninges has evolved. Contrast-enhanced T1-weighted MR imaging represented an advance over CT in depicting leptomeningeal diseases (1, 2). Fluid-attenuated inversion recovery (FLAIR) imaging has been known to be sensitive for parenchymal lesions (3 - 6).

MR Imaging of Leptomeningeal Metastases: Comparison of ...

METHODS: We reviewed MR images of 24 patients (35 studies) with a variety of meningeal diseases. The MR imaging protocol included contrast-enhanced T1-weighted MR images with fat suppression (FS) and contrast-enhanced fluid-attenuated inversion recovery

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(FLAIR) images that were reviewed by three neuroradiologists and were assigned a rating of positive, equivocal, or negative for abnormal meningeal enhancement.

Intracranial Meningeal Disease: Comparison of Contrast ...

Introduction. The meninges (dura mater, arachnoid, and pia mater), the three connective tissue membranes that cover the brain and spinal cord, may be affected by a variety of inflammatory and neoplastic conditions in dogs. 1, 2 Magnetic resonance (MR) imaging has an important role in the detection and characterization of meningeal lesions as an aid to clinical (ante mortem) diagnosis of ...

CANINE MENINGEAL DISEASE: ASSOCIATIONS BETWEEN MAGNETIC ...

Sensitivity of gadolinium-enhanced MRI for detection of meningeal disease is far from 100%, but is higher in detection of

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metastases from common solid tumours than in meningeal leukaemia or lymphoma. The commonest malignancies to metastasise to the meninges are leukaemia and lymphoma, breast, lung and melanoma.

Spinal and meningeal metastatic disease

In many cases, because meningiomas do not cause any noticeable signs or symptoms, they are only discovered as a result of imaging scans done for reasons that turn out to be unrelated to the tumor, such as a head injury, stroke or headaches.

Meningioma - Symptoms and causes - Mayo Clinic

Meningococcal disease is a reportable condition in all states, with cases immediately reported to the local and state health departments. CDC closely tracks meningococcal disease through the National Notifiable Diseases Surveillance System and Active Bacterial

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Core surveillance.. In 2015, CDC implemented enhanced meningococcal disease surveillance.

Meningococcal | Surveillance | CDC

Nervous system disease - Nervous system disease - The meninges and cerebrospinal fluid: The circulation of cerebrospinal fluid may be obstructed so that it accumulates in the skull. This condition, called hydrocephalus, may result from congenital stenosis, or narrowing, of the aqueduct of Sylvius, tumours, meningitis, or blood accumulating within the ventricles.

Nervous system disease - The meninges and cerebrospinal ...

In addition to radiographic features of IgG4-related hypertrophic pachymeningitis, which are detailed below, other associated head and neck manifestations of IgG4-related disease, such as IgG4-related-hypophysitis, lacrimal and salivary gland enlargement and inflammation, orbital pseudotumor,

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and perineural spread along trigeminal and other cranial nerves, may also be seen.

IgG4-related hypertrophic pachymeningitis | Radiology ...

MRI is the imaging modality of choice when meningeal disease of the spine is suspected. Wherever possible, imaging studies should precede diagnostic lumbar puncture, because contrast enhancement of the dural sac can occur subsequent to lumbar puncture.

Meningeal Disorders | SpringerLink

Seven patients with central nervous system neoplasia and leptomeningeal metastases, proved either at initial diagnosis or on follow-up with contrast material-enhanced computed tomography (CT), were evaluated with magnetic resonance (MR) imaging. In two patients, diffuse sulcal enhancement on CT scans was inapparent on T1- or T2-weighted MR images.

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Leptomeningeal metastasis: MR imaging. | Radiology

Contrast-enhanced T1-weighted (T1W) images in 3 orthogonal planes is considered the most sensitive in detection of meningeal disease of any cause. It is better to acquire post-contrast images with fat saturation as they are more sensitive in detecting calvarial deposits [5, 6]. Fluid attenuated inversion recovery (FLAIR) due to suppression of the CSF signal is highly sensitive to subarachnoid disease and post-contrast FLAIR has been shown to be a useful adjunct to fat-saturated T1W images in ...

Meninges in cancer imaging - Europe PMC Article - Europe ...

Testing for meningococcal meningitis may include imaging techniques such as CT scans or magnetic resonance imaging (MRI). Other testing may include examination of the blood and/or skin. Diagnosis is made by laboratory examination of the cerebrospinal fluid

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that often reveals the presence of
bacterial meningitis.

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