Case Study 1

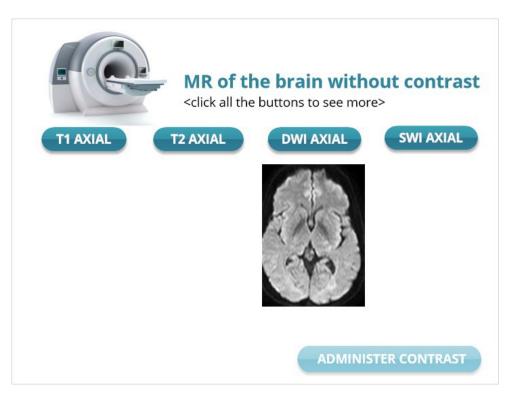
1. Case Study 1

1.1 Case Study 1

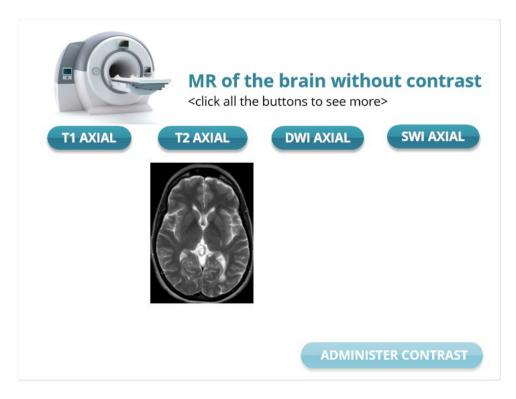


1.2 Pre-contrast MR

DWI Axial (Slide Layer)



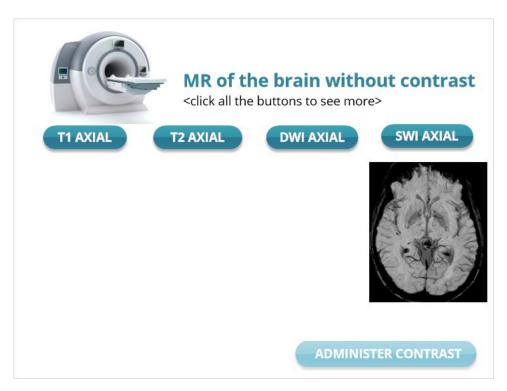
T2 Axial (Slide Layer)



T1 Axial (Slide Layer)

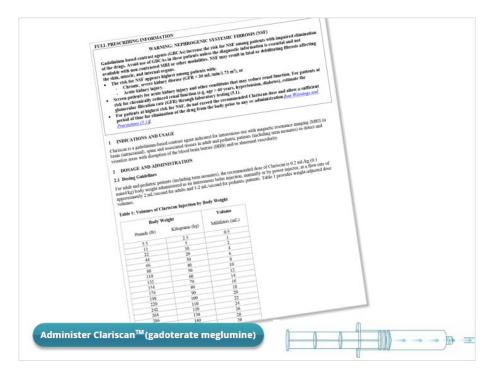


SWI Axial (Slide Layer)



1.3 Administer Contrast

Syringe (Slide Layer)

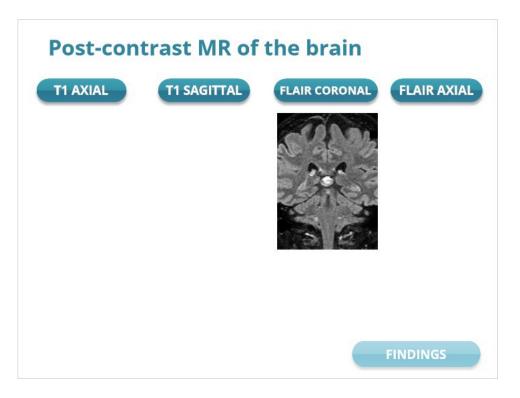


1.4 Post-contrast MR of the brain

FAIR Axial (Slide Layer)

Post-contrast MR of the brain				
T1 AXIAL	T1 SAGITTAL	FLAIR CORONAL	FLAIR AXIAL	
			FINDINGS	

FLAIR Coronal (Slide Layer)



T1 Saggital (Slide Layer)



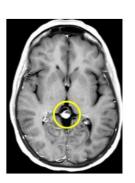
T1 Axial (Slide Layer)

Post-contrast MR of the brain				
T1 AXIAL	T1 SAGITTAL	FLAIR CORONAL	FLAIR AXIAL	
			FINDINGS	

1.5 Findings



Complex, partially cystic pineal lesion with enhancing, solid components



CLINICAL INFORMATION

1.6 Clinical information

Introduction

Pineal cysts are usually asymptomatic, and typically found incidentally.

They generally present as a unilocular cyst within the pineal gland, where attenuation or fluid signal may vary from similar to CSF to around 60% being slightly hyperintense to CSF on T1 weighted images. A thin, smooth rim of contrast enhancement is seen in most cases and calcifications are present in 25% of instances.

Epidemiology

Pineal cysts are typically found in young adults (20-30 years of age) with a predilection for women (3:1 female to male ratio).

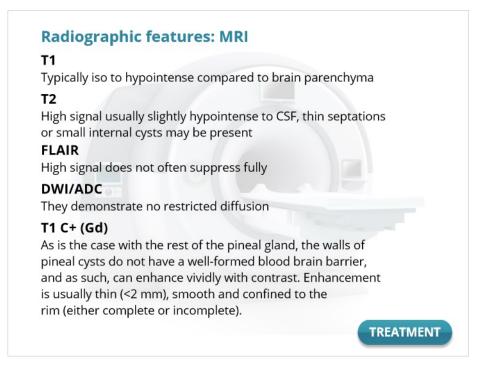
Clinical presentation

The vast majority of pineal cysts are small (<1 cm) and asymptomatic. Rarely, hemorrhage into a pineal cyst can cause rapid expansion and so-called pineal apoplexy.

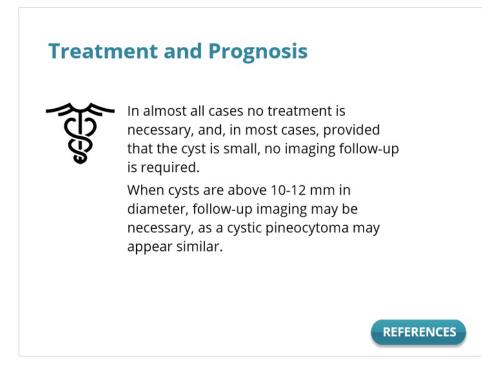
RADIOGRAPHIC FEATURES



1.7 Radiographic features



1.8 Treatment and Prognosis



1.9 References

References:

- Barboriak DP, Lee L, Provenzale JM. Serial MR imaging of pineal cysts: implications for natural history and follow-up. *AJR Am J Roentgenol*. 2001;176(3):737-43.
- Osborn AG, Preece MT. Intracranial cysts: radiologic-pathologic correlation and imaging approach. *Radiology*. 2006;239(3):650-64. doi:10.1148/radiol.2393050823.
- 3. Up Y, Mahankali S, Hou J et-al. High prevalence of pineal cysts in healthy adults demonstrated by high-resolution, noncontrast brain MR imaging. *AJNR Am J Neuroradiol*. 2007;28(9):1706-9. doi:10.3174/ajnr.



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