



2025

KARNATAKA RADIOLOGY EDUCATION PROGRAM

CASE PRESENTATION

CASE OF CEREBRAL HYDATID CYST

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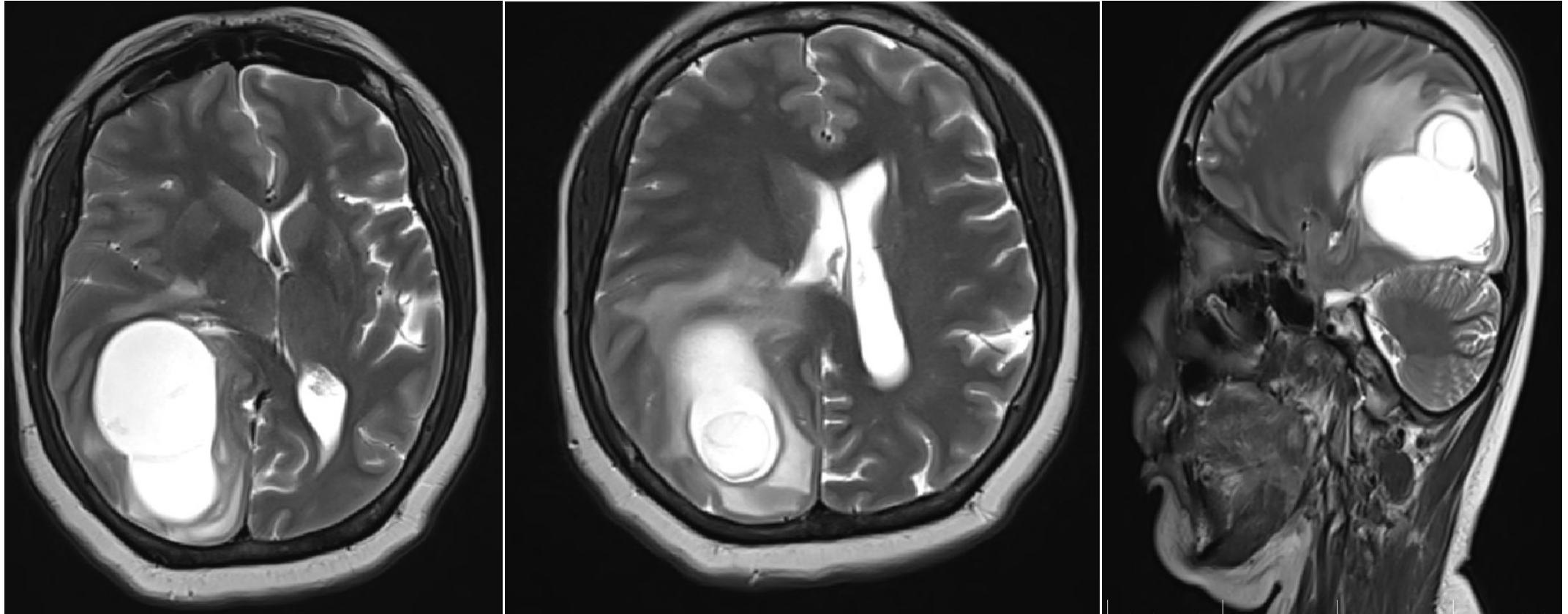
CLINICAL HISTORY

- A 40 year old female came with the complaints of severe headache, blurring of vision and ataxia.

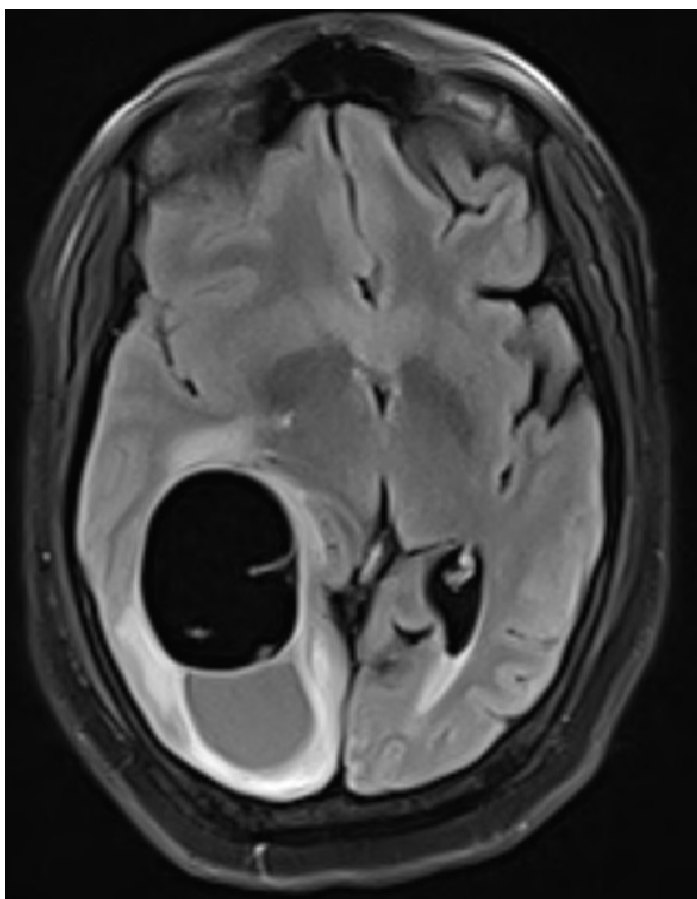
Routine blood investigations: normal limits

Viral screening: non-reactive

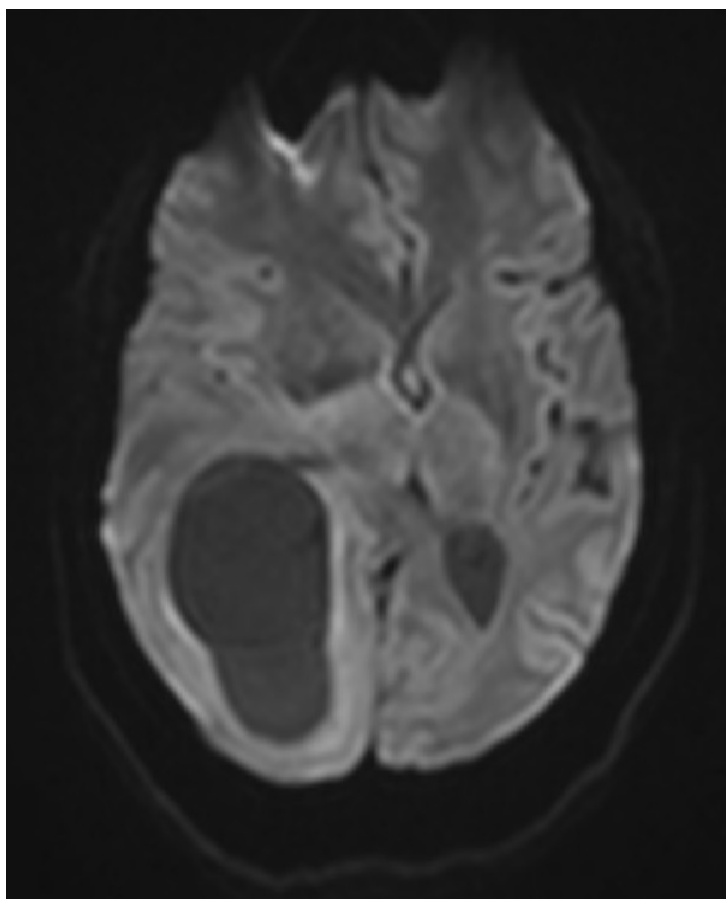
Patient was advised for MRI brain (plain and contrast)



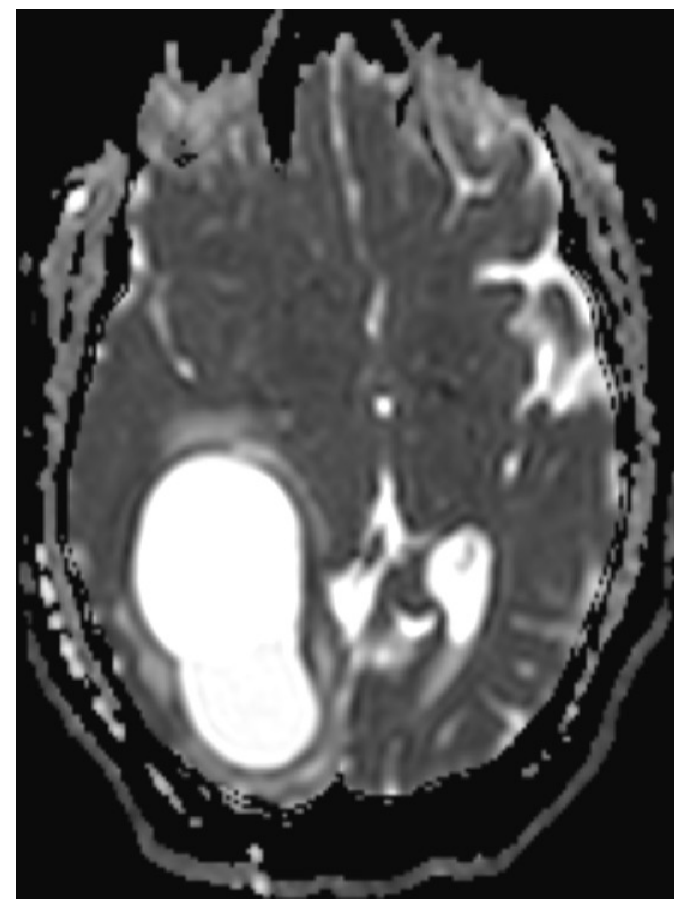
T2WI AXIAL AND SAGITTAL



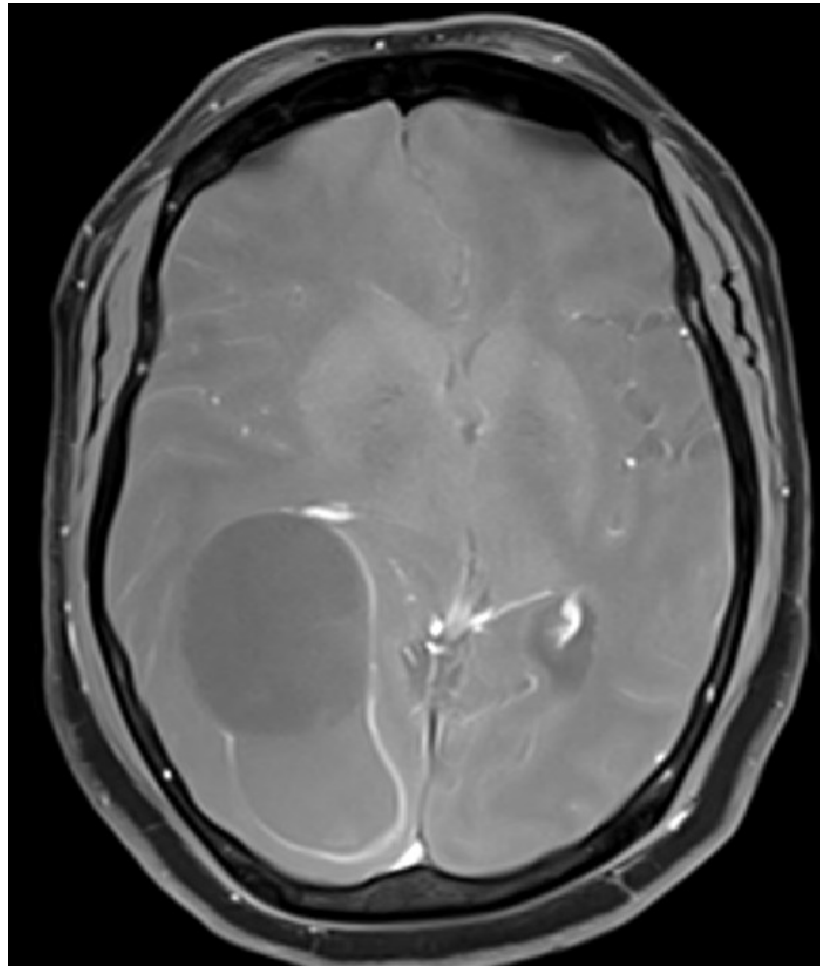
FLAIR AXIAL IMAGES



DWI



ADC



T1W POST CONTRAST IMAGES

FINDINGS

MRI

- Well defined T2 hyperintense and FLAIR hypointense peripherally enhancing lesion with fluid-fluid level, internal septations, non-enhancing mural component and adjacent perilesional edema noted right parieto-temporo-occipital region.
- The lesion is seen to cause mass effect on the adjacent brain parenchyma and midbrain, effacement of the ipsilateral lateral ventricle with midline shift to the left side
- The lesion shows subtle peripheral rim of diffusion restriction on DWI sequence

DIFFERENTIALS TO BE CONSIDERED

1. Intracerebral hydatid cyst
2. Intracerebral abscess

INTRACEREBRAL HYDATID CYST

POINTS IN FAVOUR	POINTS AGAINST
✓ T2 hyperintense cystic area with internal mural content	✓ Fluid fluid level
✓ Internal septations	✓ Presence of subtle peripheral diffusion restriction
✓ Absence of extensive perilesional edema	✓ Peripheral enhancement on contrast administration
✓ Absence of dual rim sign on SWI	

INTRACEREBRAL ABSCESS

POINTS IN FAVOUR	POINTS AGAINST
✓ Fluid fluid level	✓ Absence of dual rim sign on SWI
✓ Presence of subtle peripheral diffusion restriction	✓ Absence of central diffusion restriction
✓ Peripheral enhancement on contrast administration	

FOLLOW-UP



LABORATORY REPORT

Patient Name	: MISS SHAINAJ MAHAMADASAB BEPARI	IP / OP No	: 10115918/7700549
Ordered Loc	: General Ward-Neuro Med -1427 Bed No: ME29	Gender	: Female
Referred By	: Dr. MEDICINE E UNIT	Age	: 40 Y 0 M 5 D
Class	: General - Hospital	Vch No	: 7861
Current Loc	: General Ward-Neuro Med -1427 ME29	Collection Dttm	: 30/12/2024 11:14 AM
Sample No	: 24751515	Reported On	: 01/01/2025 05:10 PM

HISTOPATHOLOGY

Investigations	Result	Method	Unit	Reference Range
Sample Type : GENERAL				
BIOPSY NO:	6399/24			
SITE:	Right parietal lesion (Biopsy)			
GROSS:	Received very tiny grey white soft tissue pieces.			
MICROSCOPY:	Sections studied show a very tiny tissue bit with granular degenerated material amidst which a structure resending a scolex with hooklets is seen.			
IMPRESSION *	Right parietal lesion (Biopsy) : Features are suggestive of Hydatid cyst			
ADVICE :	Correlate clinicoradiologically.			
NOTE :Slides and Blocks will be saved for 10 years, specimen will be preserved for 3 months if not fully embedded.				

-----End Of Report-----

THANK YOU