

PREDICTING INTRAAXIAL BRAIN TUMOR PATHOLOGY WITH MRI SPECTROSCOPY IN INDONESIA NATIONAL BRAIN CENTER HOSPITAL (2021-2022)



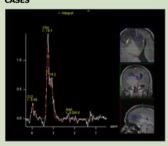
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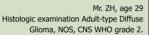
OBJECTIVE:

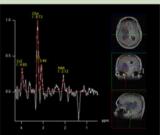
Differentiating intaaxial brain tumor solely with imaging can be challenging. MRI Spectroscopy can be utilized for predicting intraaxial brain tumor pathology. The aim of this study is to show how MRI spectroscopy pre-operative brain tumor diagnostic imaging added significant value in predicting brain tumor pathology in Indonesia National Brain Center Hospital.

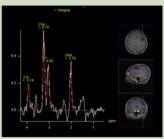
CASES



Mr. RR, age 67
Histologic examination matched with Adult-type
Diffuse Glioma, NOS, CNS, WHO grade 3/4,
suggestive anaplastic oligodendroglioma







Mrs. E, age 41 Histologic examination matched with Adult-type Diffuse Glioma, NOS WHO CNS grade 2, suspected astrocytoma.

Ms. DR, age 29 Histologic examination matched with Adult-type Diffuse Glioma, NOS, CNS WHO grade 2, suggestive oligoastrocytoma.

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Conclusion between MRS and PA	2021		2022	
	n	%	n	%
Matched	64	95,5%	74	97,4%
Not Matched	3	4,5%	2	2,6%

CONCLUSION

Pre-operative diagnostic imaging using MRI-Spectroscopy demonstrates a remarkable prediction of brain tumor histopathology. This technique is valuable in predicting intraaxial brain tumor.