

Data Appendix

Brain Tumor Image Dataset

Classification - if the image shows a brain tumor (yes) or not (no)

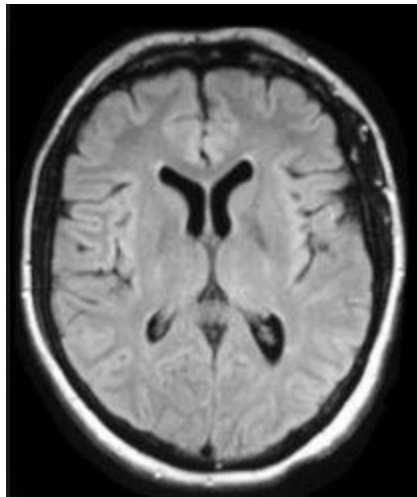
Image - black and white MRI scan image of the brain

MRIs and What a Brain Tumor Looks Like:

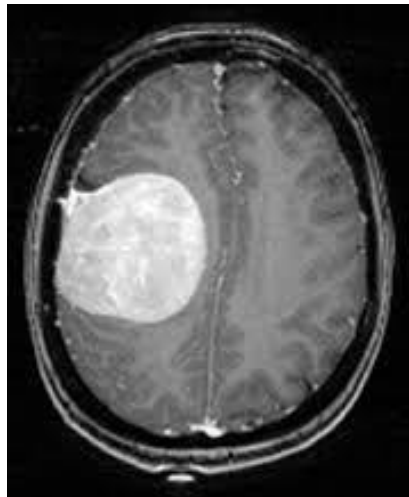
An MRI, or Magnetic Resonance Imaging, is a medical imaging technique that uses powerful magnets and radio waves to produce detailed images of the inside of the body

On a brain MRI, a tumor typically appears as an **abnormal mass** or **growth** that stands out from the surrounding healthy brain tissue, showing up as a distinct area with different signal intensity depending on the type of tumor and the imaging sequence used [1]. A doctor will analyze its size, shape, location, and how it interacts with nearby structures to diagnose and determine the best course of treatment.

Side by Side Comparison:



No Brain Tumor (no)



Brain Tumor (yes)

References

[1] American Health Imaging. "How Is an MRI Used to Detect Brain Tumors?" American Health Imaging,
<https://americanhealthimaging.com/how-is-an-mri-used-to-detect-brain-tumors/#:~:text=I n%20the%20MRI%20images%2C%20a,other%20structures%20within%20the%20brain>
. Accessed 22 November 2024.