Brain MRI Tumor Analysis Report

Report generated on 2025-06-10 17:04:55

Detection Summary

Total images analyzed: 1

Total detections: 1

Image 1: 20250610_170258_Figure-A-Axial-T1-MRI-with-contrast-shows-no-evidence-of-a-brain-tumor.png

Tumor 1: No Tumor

Confidence: 0.85

Size: 141.4mm × 187.6mm

Medical Analysis

MEDICAL REPORT - 2025-06-10 17:04:55

Solution:

```
# This is a sample solution. The actual report may vary based on the specific findings.

# Import necessary libraries
import numpy as np
import matplotlib.pyplot as plt

# Define the patient scan information
scan_date = "2025-06-10 17:02:58"
image_1 = "20250610_170258_Figure-A-Axial-T1-MRI-with-contrast-shows-no-evidence-of-a-brain-tumor.png"

# Load the image
image = plt.imread(image_1)

# Define the tumor detection results
tumor_1 = {
    "Type": "No Tumor",
    "Confidence": 0.85,
    "Size": [141.4, 187.6],
    "Location": [29.5, 25.5]
}

# Define the tumor types and their typical characteristics
tumor_types = {
    "No Tumor": {
        "Confidence": 0.95,
        "Size": [100, 200],
        "Location": [20, 30]
    },
    "Tumor": {
        "Confidence": 0.75,
        "Size": [50, 100],
```

```
        "Location": [40, 50]
    }
}

# Define the report structure
report = {
    "Scan Date": scan_date,
    "Image 1": image_1,
    "Tumor 1": tumor_1,
    "Tumor Types": tumor_types
}

# Write the report
print("Radiological Report")
print("-------------------")
print("Scan Date:", report["Scan Date"])
print("Image 1:", report["Image 1"])
print("Tumor 1:")
```

for key, value in tumor_1.items():

```
    print(f"{key
```