



Self Referral

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Referring Phys.: Self Referral

NEUROQUANT VOLUMETRIC ANALYSIS

HISTORY

This is a 54-year-old male with a history of head trauma. The patient has memory loss.

TECHNIQUE

This study was performed at Medical Imaging Center of Southern California, Santa Monica.

Using a 3T Siemens Scanner, the following sequences were obtained:

- 1) 3D MPRAGE.
- 2) Volumetric Analysis using FDA-approved techniques.

FINDINGS

There is considerable bilateral volume loss in the temporal lobes two standard deviations below normal. This finding is also seen in the lateral occipital lobes.

There is significant volume loss in the right superior frontal lobe 7th percentile as well as in the cortical gray matter, right worse than left.

OVERALL IMPRESSION

In evaluating the patient's MRI studies, it is clear that there is significant post traumatic change in the left frontal lobe where there is diminished perfusion on the ASL, diminished volume on the Neuroquant study. This patient may benefit from TMS using Neuronavigation.

summary pages

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