

Quantitative Brain MRI

At Big Sky Diagnostic Imaging of Billings, we have been dedicated to providing the highest-quality MRI imaging coupled with great service since 2005. Big Sky was the first facility in a multi-state region to offer 3T MRI and once again, Big Sky is leading the way with Quantitative Brain MRI.

Traditional brain MRI gives great qualitative information, but can sometimes leave quantitative questions unanswered. Utilizing 3D processing software, Quantitative Brain MRI can provide volumetric analysis for the whole brain and individual brain structures along with lesion quantification for MS patients. For degenerative diseases, this makes tracking progression much more objective, similar to tracking lab values. Volumetric measurements are compared to age-adjusted normative values to provide percentiles for each value.

Available Reports

Multiple Sclerosis	Assess lesion quantification and volume along with subcortical structural volumes. This report can help track MS progression by providing quantitative data. This data includes lesion count and anatomical distribution, along with volumetric measurements.
Age Related Atrophy	Assess patients with cognitive impairment and memory loss. This report provides measurements of the hippocampus and inferior lateral ventricles.
Multi Structure Atrophy	Assess volume measurements to monitor neurodegenerative conditions. This report provides volumetric measurements of nine different structures including the lateral ventricles, thalami, cortical grey and white matter, hippocampus, and inferior lateral ventricle.
Hippocampal Asymmetry	Assess hippocampal volume asymmetry in patients with epilepsy and unilateral degenerative conditions. This report provides absolute and relative volumes of the right and left hippocampus and the asymmetry between them.
Triage Brain Atrophy	Assess brain structures that could be affected by brain injury or neurodegeneration. This report presents volumetric measurements from 39 structures with lateral and regional segmentation.
Brain Development	Assess brain development for the forebrain parenchyma and lateral ventricles. This report can be used for children ages 3 and up to evaluate brain development compared with age and gender adjusted norms.

To order a quantitative brain MRI exam at Big Sky Diagnostic Imaging, simply fax an order (computer-generated or hand-written) along with demographic information (patient name, date of birth, phone number, insurance information) to us at (406)237-5530. Please indicate which quantitative brain report you would like. We will call and schedule the patient for the exam. If you prefer, you may also call and schedule the exam on behalf of the patient. Call (406)237-5525—you will get a live person and not a “punch the numbers” message! *Of note, there will be an additional charge for the quantitative reporting and like all MRI scans the charge is dependent on the patient’s insurance company’s contractual rates.*

Same-day MRI and CT without the high hospital costs!



DIAGNOSTIC IMAGING
OF BILLINGS

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