

Recent Validation Study Completed on **EchoMRI-AH**

A recent study¹ conducted by Eli Lilly, concluded that “the EchoMRI-AH™ for humans is a body composition analysis technology that offers a unique, safe, and convenient method for quantifying fat, lean, and free-water mass in humans.”

Further conclusions recognized that “the measurements also have no need to control for body motion during the scan, thus improving convenience over DXA.”



The present and future of the EchoMRI-AH™

The study objectives were:

- Determine the relationship between scan duration and short-term in vivo precision of EchoMRI measurement of fat mass;
- Determine the relationship between scan duration and short-term in vivo precision of EchoMRI measurement of lean body mass and total body water;
- Evaluate the impact of diurnal variation, food intake, water intake, and body motion on the EchoMRI measurement of fat mass, lean body mass, and total body.

While looking at fat mass measurements specifically, researchers at Eli Lilly determined that:

- Scan durations < 2.5-mins will produce a standard deviation of 0.267 kg, and a coefficient of variance (%) of 0.84.
- Increasing scan durations to 4.5-mins will improve the standard deviation to 0.221 kg, with a coefficient of variance (%) of 0.69.

All evidence to date indicates that the EchoMRI NMR-based methodology is emerging as the premiere whole body composition analysis tool available on the market today.

¹ Suico, JG., Coulston, AM., Didier, R., Taicher, GZ., Lyons, CN., Womack, T., Gaich, GM. (March 21-24, 2007) *Body Composition Analysis Using The Novel Nuclear Quantitative Magnetic Resonance Technology*. The American Society for Clinical Pharmacology and Therapeutics Annual Meeting, March 21-24, 2007, Anaheim, CA.

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