U Mass - Body composition (organs)

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ABSTRACT

Summary:

The EchoMRI 3-in-1 uses ¹H- magnetic resonance spectroscopy to noninvasively measure fat mass, lean mass, and water mass in individual organs. Fat, lean, and water mass composition in specific organs is altered in obesity.

MATERIALS

EchoMRI 3-in-1 Echo Medical Systems

Pentobarbital Oak Pharmaceuticals, Inc. Catalog #NDC76478-501-50

Note:

EchoMRI, RRID:SCR_017104

DOI:
dx.doi.org/10.17504/protocols.io.xsnfnde

External link:

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Protocol status: Working
We use this protocol and it's working
1  Euthanize mice using intraperitoneal injection of pentobarbital.

2  Quickly dissect and extract specific organs to measure their composition.

3  Place specific organ into an instrument column.

4  Measure composition of organ using instrument standard operating procedure.