Chapter 8

- Volumetric Imaging
  - Multi-slice
  - RF-encoding (Hadamard)
  - 3D Fourier Encoding
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From 2nd midterm 2011

- TE=1.1ms, TR=8000ms, flip = 90

• What is the dominant source of contrast in the body coil image?

- DOMINANT SOURCE OF CONTRAST WEIGHTING IN THE

3D

- ADD GRADIENT IN Z (PHASE ENCODING)

- POTENTIALLY DROP SLICE SELECT

- TE=1.1ms, TR=8000ms, flip = 90

- MORE SUSCEPTIBLE TO MOTION

- LONG SCAN TIME

- OFTEN SHUT-TRI LONG TR -> INEFFICIENT

- DYNAMIC RANGE CAN BE PROBLEM

- CONTRAST:

- What is the dominant source of contrast in the body coil image? Briefly explain.

- Di  

- erences:

- What is the dominant source of contrast in the body coil image? Briefly explain.
From 2nd midterm 2011

- TE=1.1ms, TR=8000ms, flip = 90

- What are the differences between the images, and what are the sources?

Saturation Recovery Spin-Echo

<table>
<thead>
<tr>
<th>TE=10 TR=1500</th>
<th>TE=30 TR=1500</th>
<th>TE=60 TR=1500</th>
<th>TE=120 TR=1500</th>
</tr>
</thead>
</table>

What are the T2's?

- 6ms
- 12ms
- 30ms
- 50ms
- 100ms
- 250ms
- 600ms

Saturation Recovery Spin-Echo

What is this sequence?

Sequence = ?

TE=40 TR=3000

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What is this sequence?

Sequence = ?

TE=10 TR=3000