Overview of the Human Magnetic Resonance Center (HMRC)
• Siemens 3T Magnetom Skyra
• Only research dedicated scanner in Western Massachusetts.
• 70-cm bore MRI/MRS
• Structural Neuroimaging
• Functional Neuroimaging
• Ancillary Equipment
  • Aid in data collection
• 3 Head Coils
  • (20, 32 and 64 channels)
• Mock Scanner System
  • Participant interfaces, stimuli/task presentation and scanner simulation.
fMRI Ancillary Equipment

- BOLD Screen (HDTV, 32”, 120Hz)
- Optoacoustic, Active noise cancelling headphone/microphone
- Current Design, 932 console, Bimanual 4 buttons
Functional MRI

Scan time: 246 sec
Bilateral Motor Cortex Activation
DTI Fiber Tracts
Voice Recording and Extraction

![Voice Recording Equipment Image]

Graph showing amplitude vs. time for a voice recording.

- Original
- Filtered
- Threshold
- Resp. Time

Graph showing response time vs. image number.

Threshold = 0.0210

Duration = 1981 ms
Eye Tracking during fMRI
EEG during fMRI
Thank you,
HMRC Staff