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HST.583 Functional Magnetic Resonance Imaging: Data Acquisition and Analysis
Fall 2008

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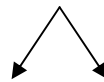
HST 583: fMRI Acquisition LAB

Sept 15th 2008, 1:00-2:30 pm

1:00 – 1:30 Introduction: MRI waiting room (Susan)

Introductions to MIT MRI team: (Christina/Sheeba/Steve/Susan)
Task Descriptions: (Self reference,
Sternberg Item Recognition Paradigm, Sensory-motor)
Randy selects volunteer (Native English speaker)

Class Divides



Subject Training & Preparation

Consent (SA)
Screen (SA)
Train Subjects on Tasks (SA)
Subject changes clothes
Subject uses restroom

Safety, Tour & Presentation

Metal screen (SS)
Tour Console & MRI rooms (SS)
Register Subject on Console (SS)
Presentation (SG)

1:30 – 2:15 Run Subject: (MIT team)

Steve – console
Sheeba – stim presentation, Neuro3D
Christina – protocol/sequences
Susan – tasks, example activations

Protocol:

Localizer/AA Scout (2min)
MPRAGE (~4min)
Field Map, Phase & Magnitude (2min)
Cognitive (Self ref - 12 min)
SIRP (6min)
Sensory-motor+ Neuro3D (8min)

34 minutes total acquisition
+ instructions/setup

TOTAL: 45 minutes

Debrief Subject (SS)

2:15 – 2:30 Data transfer & backup (SA)