MRI – Magnetic Resonance Imaging

We are going to take a picture of your brain today. There is no language test involved. You will simply be asked to rest in the scanner for about 1 hour.

When you get to the MRI room, we will tape vitamin E pill to your head on the left side, so that we know which side is left on the picture.

The MRI technologist will lead you into the room, and you will lie down on the scanner. She will put a pad on your chest (to measure your breathing) and a clip on your finger (to measure your pulse rate). The MRI machine is very noisy, so she/he will put earphones on your head. Finally, she/he will put a head coil on your head, with cushions to keep your head still, and a blanket over you to keep you warm.

During the experiment, you have to stay very still so the scanner can take a clear picture of your brain. We are able to hear and speak to you the whole time. If you feel uncomfortable at any point in time, we can stop the scan.

You can close your eyes for the whole scan, except for about 7 minutes in the middle of the session. At this point, you will be asked to open your eyes and look at a fixation cross + on a screen.

Have a great scan! Thank you for helping us with our research.
Clothing: On the day of the scan wear comfortable clothing with no metal or sparkly attachments, no jewellery. Metal cannot go into the scanner.

Scan Room ~ Sit on Table with legs over the side

# 1 Ear Plugs ~ Reduces Scanner Noise

# 2 White Cap ~ Cover Head & Ears

# 3 Headset ~ for hearing the Technologist

Lift legs onto table and lie back

# 4 Sponge under legs ~ for comfort

# 5 Emergency Squeeze ball ~ Just in case

# 6 Respiratory Pad ~ strapped to chest to monitor breathing

# 7 Pulse Ox on Left middle finger ~ monitor Heart Rate
# 8 Side Sponges around head ~ to limit movement of head

# 9 Top of coil position over head ~ will click during hookup

# 10 Mirror position ~ allows you to see the screen for the +

# 11 Close your eyes ~ to check your head position

# 12 Movement of table as you glide into the magnet

Knock Knock Noise ~this is normal operation ~ Scanner is taking pictures of your brain ~ You can close your eyes ~ Do not move your head ~

**DTI (Scan # 5)** ~ Sometimes the table will feel as if it is shaking and you are moving, you are not ~ this is normal~ Just relax, keep your eyes closed and hold your head still

**When I say (# 6)** ~ You will open your eyes and focus on the screen on the fixation cross + Keep your eyes on the + and stay awake ~ This will last for just over 6 minutes.

When the screen goes blank you can closed your eyes again and rest ~ 10 minutes of scanning left.

**Any Questions ?**