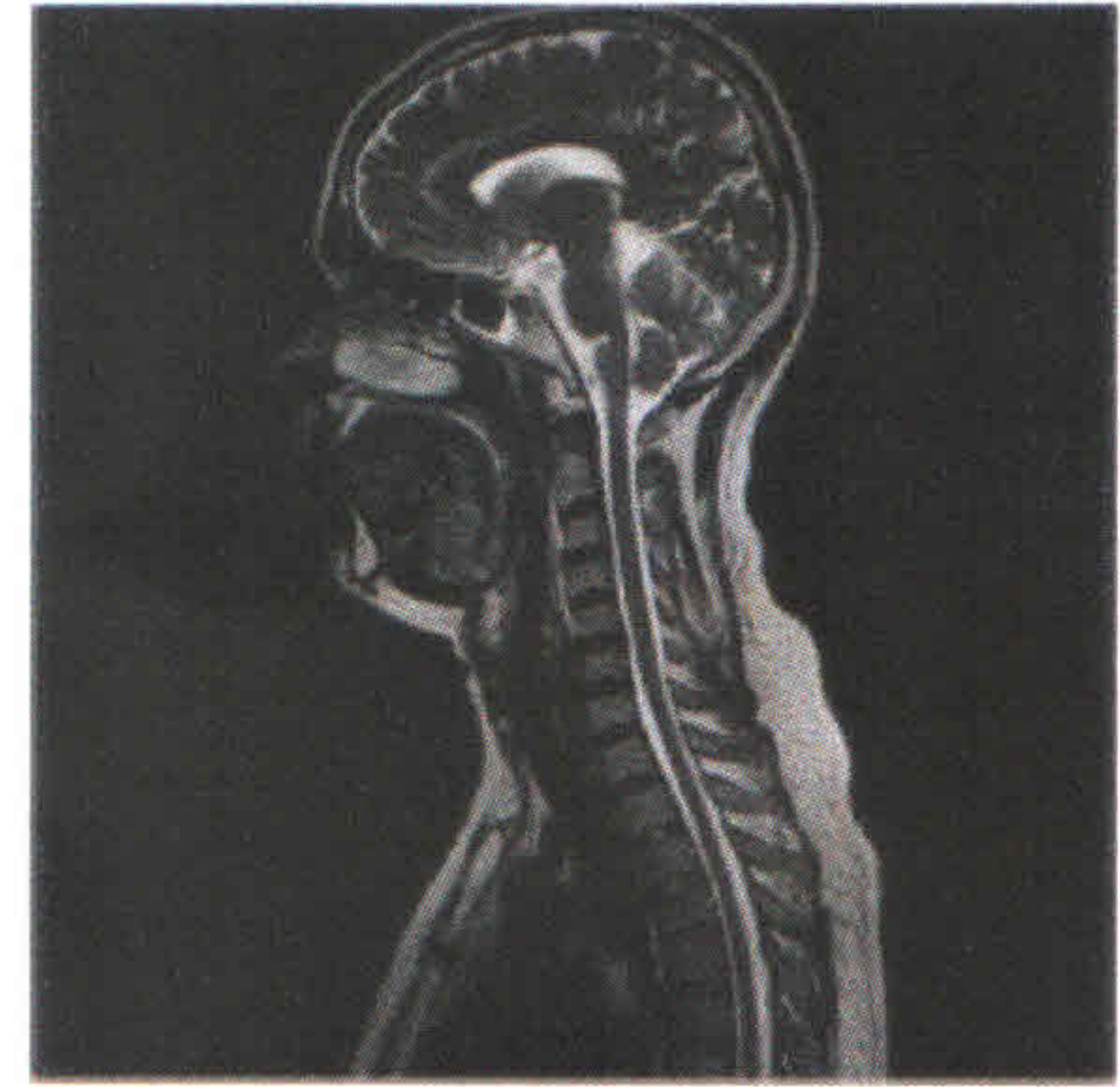


## RESEARCH STUDY: ADULT VOLUNTEERS 19 YEARS OR OLDER



**TITLE:** MRI Protocol Test and Optimization

**WHO:** Adults, age 19 or older

**WHAT:** You will first be asked screening questions to make sure it is safe for you to undergo an MRI scan. You will change into surgical scrubs. If you are female, you will be asked to remove your bra if it contains a metal underwire or metal fasteners. You will then be asked to lie on a bed that slides into the long tube of the scanner. The scanner is a magnet with a small enclosed space. Radio waves and strong, changing magnetic fields are used to make images of your body. You will be given earplugs and earphones to protect your ears since these changing magnetic fields cause loud knocking, thumping, or pinging noises. You will be asked to remain very still at these times. To help you keep your head perfectly still, we will put cushions around your head.

For some of the scans, you will look at images on a video screen. You may see letters, words, shapes, mazes, faces, color forms, etc. You will be instructed about a specific task and asked to push a button when certain conditions are met. An example of this would be to push a button every time green rectangles appear on the screen or every time you hear a particular sound.

Some MRI scans may require you to take a deep breath, blow it out, and then hold your breath for 25 seconds or less. You will be asked to do this 30-40 times during a one hour scanning session, with approximately 30 seconds or more between breath holds.

Multiple scans will be performed in a single session with approximately one minute of rest between scans. Each scan lasts about 12 minutes and will never exceed 20 minutes. Your total time in the scanner will be 30 minutes to one hour. Your total time commitment will be approximately 1-2 hours.

**EXCLUSIONS**

- Any metal in the body
- Breathing or motion disorder
- Inner ear disorders
- Brief nausea when being put into or taken out of the scanner
- Tattoos that contain metal
- Body piercing jewelry that cannot be removed
- Pregnant or possibly pregnant

**RISKS:**

- Having unrestrained metal objects brought near the scanner.
- The MRI scanner produces an intermittent loud noise, which some people find annoying.
- Some people are uncomfortable being in an enclosed place.
- Some people experience dizziness or a metallic taste in their mouth if they move their head rapidly in the magnet

**BENEFITS:** There is no direct benefit to you from participating in this study. Your participation may benefit others in the future with the developing new beneficial imaging techniques.

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