The Healthy Brain Network Serial Scanning Initiative, Session 1 Version 2

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Abstract

This protocol describes MRI and ADHD Quotient Test for Session 1 of the following work:

David O'Connor, et. al. (2017) The Healthy Brain Network Serial Scanning Initiative. *GigaScience...*

Before start

Participant offered use of restroom

Protocol

Pre-Scan

Step 1.

Consent is acquired and preganancy test administered to female participantsif they are of childbearing age

 ❶ NOTES

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 Before Start: Participant offered use of restroom

Pre-Scan

Step 2.

Participant is scanned for magnetic materials, asked to change into scrubs if necessary, and enters the MRI machine

Scan

Step 3.
Localizer

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    Not Shared, calibration only

Scan

Step 4.

Head Motion training - participant is scanned using an fmri sequence, and presented with visual feedback based on the amount their head moves.

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    Not Shared, for training purposes only

Scan

Step 5.
Localizer

    ➕ NOTES
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    Not Shared, calibration only

Scan

Step 6.

Resting State - stimuli and scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Scan

Step 7.

HCP Task - particpant was scanned with fmri sequence while performing one of seven tasks used in the Human Connectome project
(http://www.humanconnectome.org/documentation/Q1/task-fMRI-protocol-details.html)

Scan

Step 8.
B0 field map

Scan

Step 9.

T1 weighted Multiecho MPRAGE - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 10.

DWI- scan protocol shared online (http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 11.

DKI- scan protocol shared online (http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 12.

Whole brain T1 - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 13.

Inversion Recovery - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 14.

Whole brain T2 - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 15.

Magnetization transfer (OFF) - - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 16.

Magnetization transfer (ON) - - scan protocol shared online
(http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 17.

T2 FLAIR - scan protocol shared online (http://fcon_1000.projects.nitrc.org/indi/hbn_ssi/index.html)

Step 18.
Removed from Scanner

Step 19.
Quotient - Quotient is a computer based task designed to assess three core symptoms of ADHD: hyperactivity, attention and impulsivity. Participants respond to stimuli presented with random timing and random placement on a screen. Completion of the task takes up to 30 minutes.

⊕ NOTES
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DUA required for this data