Anaïs - Inhibition WM

From KnightLab

This inhibition working memory task (IWM) is composed by 1 practice (of 5 or 10 trials) and 3 blocks of approximately 10 min each.

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Contents

Setup

OS	Software	Toolbox	Photodiode	Speakers	Microphone	Other peripheral(s)
Windows	Eprime2	-	X	-	-	mouse

WARNING: This task runs through to Eprime2, i.e. use old ECoG laptop.

Task location: https://www.dropbox.com/home/Anaïs/IWM_BerkeleyVersion_noSR

Script Name: Inhib_WM_Ecog_UC_noSR.ebs2

Requirement: mouse device, old ECoG laptop.

Procedure

Aim

The patient will see five letters one after the other. A single letter will follow a fixation cross and the patient will then be asked whether or not this letter was in the previous list of five letters. The patient has to answer using the two buttons of the mouse.

Setup

- Put the laptop in front of the patient
- Plug the mouse device and give it to the patient

- If there is no wired mouse, use the laptop keyboard

Questions

- The code of the patient and the session will be asked.
- The session number
- IMPORTANTLY: the hand used to press the YES or NO keys. This depends on the side of the implantation:
  - If RIGHT implantation: the RIGHT hand should be used
  - If LEFT implantation: the LEFT hand should be used
  - If BILATERAL implantation: the LEFT hand should be used
- The language: English or Norwegian (here it is English)
- The trigger used: photodiode or parallel port (here it is photodiode)
- The response setup used: mouse or response box (here it is mouse)

After answering this question, the experiment can start according to the answers given.

Instruction

First the instructions will be written on the screen, a picture of the hand and the buttons to press will be seen.

Left instruction

You will see five letters one after the other. Following the letters, you will see a cross in the center of the screen. A single letter will follow the cross and you will then be asked whether or not this letter was in the previous list of five letters. **To answer NO, press the left mouse button with your left middle finger. To answer YES, press the right mouse button with your left index finger.**

Example:

A F D G O + Was it in the list? A

Press the left button on the mouse for NO

Press the right button on the mouse for YES

Right instruction

You will see five letters one after the other. Following the letters, you will see a cross in the center of the screen. A single letter will follow the cross and you will then be asked whether or not this letter was in the previous list of five letters. **To answer NO, press the right mouse button with your right middle finger. To answer YES, press the left mouse button with your right index finger.**

Example:

A F D G O + Was it in the list? A

Press the right button on the mouse for NO

Press the left button on the mouse for YES

Practice

- There is a break during the practice after 5 trials. If the patient understood correctly, he can press YES and start the experiment. If the patient needs more practice, 5 more trials of practice will start by pressing NO.
- Press the space bar to start the experiment and to continue the task at the end of the two breaks.

Timing

Instructions	Practice	Blocks	TOTAL
2 min (on screen)	4 min	24 min (3 blocks)	30 min

To stop the task

- If the patient cannot do 3 blocks in a row, or for any other reason, press 9 **during one of the break** and it will close the task properly.
- You can open again the experiment later and run another block. Do not forget to put a 2 in the session number and to keep the same hand used. Then the practice will start again.

Thank you for recording!