Introduce the lab. “This is where we do VE studies”

Today you will be wearing an HMD, this HMD.

You will put it on your head and view a virtual environment. The virtual world will update as you move around, just like the real world.

You will be experiencing 3 different conditions: (depending on order)

Myo march: we will have you walk in place. You pick up your feet to move around the VE.

PPT: you will be physically walking. Your position will ve updated in the ve by walking around in the physical world.

Arm swinging: swing your arms to move around.

In two stationary ones, your rotations are your own.

We will run these in blocks—you can take a break after each condidtion if you would like.

We will have you perform a task in each of the conditions.

We will act out what the task will be in the real world so you can understand. (act out. Place props and spatially navigate.)

In this example, you will memorize the positions of the trash can and chair.

What we are studying is how well you can orient yourself in the ve—this means as you move around you know where the objects, or targets, are.

For each environment, you will have to memorize 6 things. We will give you some time to memorize them. Feel free to ask questions.

We will actually test you! We will see how you perform. We want you to perform as quickly and as accurately as possible.

You will see a red cylinder. Position yourself near the cylinder, then face a red ball. At correct orientation, the ball will turn green. “Turn to face the trash can.” And that will tell us how well you know the environment.

**The blind walking**

After turning to face 18 targets, we will do a few blind walking tasks.

You will stand in a location, see the object, close your eyes, then walk to the chair. You will do this in all of the conditions.

**The informed consent.**

When we test human subjects, we have to have your signature on this form. If you feel uncomfortable at any time, feel free to quit.

NOTES

5 minutes to memorize for each locomotion method at the beginning.

Then, pop up the cylinder. And say, “We would turn off the objects when you get to this location. then you would turn to face the horse, face it, then say okay.”

Ask if they used a strategy.

Have someone hold the cable, or have them hold the cable.

**QUESTIONS:**

**What was favorite?**

**Describe any problems with any of the locomotion methods.**

**Did you have any strategies?**

**1-5 comfortability, how comfortable was each environment?**

**Did you feel nauseous at any point?**

**Did the movement seem realistic?**