Participation Timeline for Patients with Stroke

I am a person with stroke and want to participate. How long is this study?

This study will last up to two weeks.

Candidates will participate in:
- One screening visit and clinical evaluation of the arm and hand (about 2 hours) (exercises with the arm and hand; recording of the movements with small sensors on the arm and hand; questionnaires related to arm function and quality of life)
- One Magnetic Resonance Imaging (MRI) scanning visit (about 2 hours). The scanning will also comprise doing exercises with a robot. The robot attaches to the finger and will gently move your finger in various shapes while you are in the MRI scanner. The purpose of the robot is to evaluate body awareness (how well you can feel movements of your finger).

Candidates must fit the following criteria:
- Men and women, 18-99 years of age in good health
- Diagnosed with stroke at least 6 months ago
- Able to hear and comprehend instruction given during the study

Candidates will not fit the requirements of the study if:
- Candidates have injuries to the arm or hand, or other illnesses unrelated to stroke
- Candidates have metal implants, such as surgical clips, or pacemakers. They should not have an MRI, because of the magnetic environment of the MRI scanner
- Candidates are pregnant
- Candidates lack the capacity to consent

If you are uncertain if this study would be for you, feel free to contact us for more information with no obligation.

Please contact Dr. Van de Winckel at 612-625-1191
**Screening Visit (about 2 hours)**
*This visit will occur in the Children's Rehabilitation Center - Physical Therapy Clinical Assessment Lab (Room 302)*

You will be asked to do the following:
- Consent to participate in the study
- Review your demographic information and medication history
- Complete study required clinical assessments and surveys

**Baseline Visit (about 2 hours)**
*This visit will occur at the Center for Magnetic Resonance Research (CMRR)*

- MRI Scanning of structural images, and functional MRI procedure with robot. The robot is attached with tape and Velcro to your finger and gently guides your finger in various motions so that you can feel the movements while in the scanner. You will be asked to indicate whether movements are the same or different. You will also be asked to differentiate between musical segments that are played while in the scanner.
- Urine samples will be collected for women of childbearing age. (A negative pregnancy test is required prior to undergoing an MRI).

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Screening</th>
<th>Baseline (+7 days after screening)</th>
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<tbody>
<tr>
<td>Informed Consent</td>
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<td>Demographics/Medical History</td>
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<td>Complete Assessments/Procedures</td>
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<tr>
<td>MRI Scanning</td>
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<tr>
<td><em>Urine Pregnancy Test</em></td>
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*For women of childbearing potential only*