Set up the patient according to the ADNI instruction manual. Use the 8-channel brain coil.

Use the electronic ADNI protocol that has been loaded on your scanner.

NOTE: The "adni" pulse sequence used for series 2 and 3 is a works in progress pulse sequence that ADNI sites obtain from GE Healthcare.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>IMAGING PARAMETERS</th>
<th>ACQUISITION TIMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>coil</td>
<td>scan plane mode</td>
<td>matrix/nex (Whole Body gradient) slice/space auto shim</td>
</tr>
<tr>
<td>etl</td>
<td>matrix/nex (Whole Body gradient) slice/space auto shim</td>
<td>256 / 128 / 1</td>
</tr>
<tr>
<td>scan time</td>
<td>26</td>
<td>5 / 5</td>
</tr>
</tbody>
</table>

**SERIES**

**coil**

**3 plane loc.**

**8hrbrain**

**etl**

**3-plane**

**SAT**

**scan time**

**:13**

**comments**

Use 8-channel brain coil.

**SERIES**

**coil**

**2. Sag MPRAGE**

**8hrbrain**

**SCAN TIMING**

**image opts.**

**psd name**

**spgr**

**adr**

**freq. direct.**

**s/I**

**#echos**

**1**

**min full**

**Prep time**

**1000**

**flip angle**

**8**

**bw1/bw2**

**15.63**

**scan time**

**7:42**

**Comments**

Cover skin to skin. Remind the patient to hold still for this scan.

**SERIES**

**coil**

**3.MPRAGE-repeat**

**8hrbrain**

**SCAN TIMING**

**image opts.**

**psd name**

**spgr**

**adr**

**freq. direct.**

**s/I**

**#echos**

**1**

**min full**

**Prep time**

**1000**

**flip angle**

**8**

**bw1/bw2**

**15.63**

**scan time**

**7:42**

**comments**

Prescribe same image locations as series 2, unless adjustment is needed (e.g. to correct for wrap).

Remind the patient to hold still for this scan.

(Continued on next page)
### 1.5T ADNI GE 12.0 M3 Software, TwinSpeed Gradient and 8-channel Brain Coil

<table>
<thead>
<tr>
<th>SERIES</th>
<th>coil</th>
<th>scan plane</th>
<th>mode</th>
<th>pulse seq</th>
<th>image opts.</th>
<th>psd name</th>
<th>matrix/nex</th>
<th>locs/pause</th>
<th>freq. direct.</th>
<th>fc direct</th>
<th>Auto Shim</th>
<th>ADDITIONAL PARAMETERS</th>
<th>SCANNING RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Sag B1 Cal PA 8hrbrain</td>
<td>Sag</td>
<td>3D (ZOOM gradient)</td>
<td>EDR, Fast</td>
<td>User CVs</td>
<td>Image acq. delay=0</td>
<td>Turbo Mode =1</td>
<td>fov</td>
<td>slice/space</td>
<td>128 / 128 / 1</td>
<td>128 / 128 / 1</td>
<td>On</td>
<td>30</td>
</tr>
<tr>
<td>comments</td>
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<td></td>
<td></td>
<td></td>
<td>Cover skin to skin.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Sag B1 Cal PA BODY</td>
<td>Sag</td>
<td>3D (ZOOM gradient)</td>
<td>EDR, Fast</td>
<td>User CVs</td>
<td>Image acq. delay=0</td>
<td>Turbo Mode =1</td>
<td>fov</td>
<td>slice/space</td>
<td>128 / 128 / 1</td>
<td>128 / 128 / 1</td>
<td>Off</td>
<td>30</td>
</tr>
<tr>
<td>comments</td>
<td></td>
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<td></td>
<td></td>
<td>Turn Body Coil on for this scan. Leave 8hrbrain coil plugged in, but accept change to Body Coil</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Ax PD/T2 FSE 8hrbrain</td>
<td>Ax</td>
<td>2D (ZOOM gradient)</td>
<td>EDR-XL</td>
<td>User CVs</td>
<td>Filter Choices=none</td>
<td>blurring cancellation=0</td>
<td>fov</td>
<td>slice/space</td>
<td>256 / 256 / 1</td>
<td>256 / 256 / 1</td>
<td>Off</td>
<td>24</td>
</tr>
<tr>
<td>comments</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Accept change back to 8-channel Brain Coil</td>
<td></td>
</tr>
</tbody>
</table>

Series 6 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.