## Supplementary Table S1. Codes for THA and TKA

<table>
<thead>
<tr>
<th>Procedure</th>
<th>CCI Code</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Hip</strong></td>
<td></td>
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</tr>
<tr>
<td>Dual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>component</td>
<td></td>
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</tr>
<tr>
<td>prosthetic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>device</td>
<td></td>
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</tr>
<tr>
<td>(femoral</td>
<td>1.VA.53.LA-PN-K</td>
<td>Bone homograft (uncemented)</td>
</tr>
<tr>
<td>and</td>
<td>1.VA.53.LA-PN</td>
<td>Uncemented</td>
</tr>
<tr>
<td>acetabular</td>
<td>1.VA.53.LA-PN-A</td>
<td>Bone autograft (uncemented)</td>
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<tr>
<td></td>
<td>1.VA.53.LA-PN-N</td>
<td>With synthetic material (e.g., bone paste, cement, Dynagraft, Osteoset)</td>
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<td></td>
<td>1.VA.53.LA-PN-Q</td>
<td>Using combined sources of tissue (e.g., bone graft, cement, paste)</td>
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<td></td>
</tr>
<tr>
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<td>1.VA.53.PN-PN-K</td>
<td>Bone homograft (uncemented)</td>
</tr>
<tr>
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<tr>
<td><strong>Knee</strong></td>
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<tr>
<td>Dual</td>
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<tr>
<td>component</td>
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<td>Uncemented</td>
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<tr>
<td>Prosthetic</td>
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<td>With bone autograft</td>
</tr>
<tr>
<td>device</td>
<td>1.VG.53.LA-PM-K</td>
<td>With bone homograft</td>
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<tr>
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<td>1.VG.53.LA-PM-Q</td>
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<tr>
<td>Tri</td>
<td>1.VG.53.LA-PP-N</td>
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<tr>
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</tr>
<tr>
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<td>With bone homograft</td>
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<tr>
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