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**Appendix A**: ICD-9-CM & ICD-10-CM procedure codes used to identify admissions for inclusion and exclusion.

<table>
<thead>
<tr>
<th>Procedure Type (ICD-9-CM Procedure Code(s))</th>
<th>ICD-9-CM</th>
<th>ICD-9-PR</th>
<th>ICD-10-PCS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCLUSIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total knee replacement</td>
<td></td>
<td>8154</td>
<td>NHSN^ KPRO Category</td>
</tr>
<tr>
<td>Total hip replacement</td>
<td></td>
<td>8151</td>
<td>NHSN^ HPRO Category</td>
</tr>
<tr>
<td><strong>EXCLUSIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spina bifida</td>
<td>741x</td>
<td></td>
<td>Q054 Q059 Q0702 Q0703 Q050 Q051 Q052 Q053 Q058 Q059 Q0700 Q0701 Q055 Q056 Q057 75617 Q760</td>
</tr>
<tr>
<td>Craniotomies</td>
<td></td>
<td>0112 0114 0120-0129 0131 0132 0139 0141 0142 0151 0152 0153 0159 0211-0214 0291 0292 0293 0751-0759 0761-0769 0771 0772 0779 3801 3811 3831 3841 3851 3861 3881 3928</td>
<td>NHSN^ CRAN Category</td>
</tr>
</tbody>
</table>

Appendix B. Number of Medicaid beneficiaries age 18-64 year in each state per year.

<table>
<thead>
<tr>
<th>State</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ</td>
<td>500813</td>
<td>566289</td>
<td>829124</td>
<td>800919</td>
</tr>
<tr>
<td>AR</td>
<td>85781</td>
<td>133205</td>
<td>200194</td>
<td>190797</td>
</tr>
<tr>
<td>CO</td>
<td>233365</td>
<td>208404</td>
<td>477162</td>
<td>446489</td>
</tr>
<tr>
<td>FL</td>
<td>635202</td>
<td>1003140</td>
<td>1315447</td>
<td>1207807</td>
</tr>
<tr>
<td>IA</td>
<td>151984</td>
<td>160344</td>
<td>180664</td>
<td>217316</td>
</tr>
<tr>
<td>MD</td>
<td>235587</td>
<td>341108</td>
<td>350594</td>
<td>385545</td>
</tr>
<tr>
<td>MA</td>
<td>751966</td>
<td>721928</td>
<td>816598</td>
<td>828111</td>
</tr>
<tr>
<td>MO</td>
<td>217333</td>
<td>256646</td>
<td>327202</td>
<td>231046</td>
</tr>
<tr>
<td>NV</td>
<td>77019</td>
<td>147258</td>
<td>209138</td>
<td>223485</td>
</tr>
<tr>
<td>NY</td>
<td>1880109</td>
<td>2018317</td>
<td>2255263</td>
<td>2159948</td>
</tr>
<tr>
<td>VT</td>
<td>82405</td>
<td>55503</td>
<td>56539</td>
<td>53443</td>
</tr>
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</table>
Appendix C: State Medicaid enrollment variable by state and year.

<table>
<thead>
<tr>
<th>State</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ</td>
<td>0.62530</td>
<td>0.70705</td>
<td>1.03522</td>
<td>1</td>
</tr>
<tr>
<td>AR</td>
<td>0.44959</td>
<td>0.69815</td>
<td>1.04926</td>
<td>1</td>
</tr>
<tr>
<td>CO</td>
<td>0.52267</td>
<td>0.46676</td>
<td>1.06870</td>
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</tr>
<tr>
<td>FL</td>
<td>0.52591</td>
<td>0.83055</td>
<td>1.08912</td>
<td>1</td>
</tr>
<tr>
<td>IA</td>
<td>0.69937</td>
<td>0.73784</td>
<td>0.83134</td>
<td>1</td>
</tr>
<tr>
<td>MD</td>
<td>0.61105</td>
<td>0.88474</td>
<td>0.90935</td>
<td>1</td>
</tr>
<tr>
<td>MA</td>
<td>0.90805</td>
<td>0.87178</td>
<td>0.98610</td>
<td>1</td>
</tr>
<tr>
<td>MO</td>
<td>0.94065</td>
<td>1.11080</td>
<td>1.41618</td>
<td>1</td>
</tr>
<tr>
<td>NV</td>
<td>0.34462</td>
<td>0.65892</td>
<td>0.93580</td>
<td>1</td>
</tr>
<tr>
<td>NY</td>
<td>0.87044</td>
<td>0.93443</td>
<td>1.04413</td>
<td>1</td>
</tr>
<tr>
<td>VT</td>
<td>1.54193</td>
<td>1.03855</td>
<td>1.05792</td>
<td>1</td>
</tr>
</tbody>
</table>
Appendix D. Number of THA/TKA cases by state by year in Medicaid Expansion states (Figure A) and non-Expansion states (Figure B).

![Diagram showing number of THA/TKA cases by state by year in Medicaid Expansion states and non-Expansion states.](image-url)
**Appendix E. Multivariable regression model output**

<table>
<thead>
<tr>
<th></th>
<th>Estimate (SE)</th>
<th>p-value</th>
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</thead>
<tbody>
<tr>
<td><strong>Expansion state</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.133 (0.0274)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td><strong>Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>0.074 (0.0360)</td>
<td>0.0393</td>
</tr>
<tr>
<td>2013</td>
<td>Reference</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>-0.203 (0.0349)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>2015</td>
<td>-0.122 (0.0324)</td>
<td>0.0002</td>
</tr>
<tr>
<td><strong>Expansion state * Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expanded*2012</td>
<td>-0.020 (0.0397)</td>
<td>0.6128</td>
</tr>
<tr>
<td>Expanded*2013</td>
<td>Reference</td>
<td></td>
</tr>
<tr>
<td>Expanded*2014</td>
<td>0.346 (0.0367)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>Expanded*2015</td>
<td>0.326 (0.0361)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td><strong>Musculoskeletal case burden in state (MDC8 rate)</strong></td>
<td>15.525 (0.4328)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td><strong>Employment rate in state</strong></td>
<td>-1.959 (0.1229)</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td><strong>Medicaid state enrollment variable</strong></td>
<td>0.533 (0.0479)</td>
<td>&lt;0.0001</td>
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</tbody>
</table>