

**Attachment 1: Crosswalk Between Contract Evaluation Measures, Existing Data Sources, and Proposed Data Collection for Outcome and Impact Evaluation of CMS QIN-QIO Program for Task C.2. Reducing Healthcare-Acquired Conditions in Nursing Homes**

<b>Outcome Evaluation Data Needs</b>	<b>Existing Measures/Sources</b>	<b>Proposed New Measures</b>
To reduce biases affecting outcome analyses by matching nursing homes participating in the QIN-QIO program intervention with facilities not participating	<ul style="list-style-type: none"> <li>• Percentage of One-Star Category Target Number recruited for Collaborative I<sup>1</sup>/ Deliverable and Data Submission Tool (DDST)</li> <li>• Percentage of Recruitment Target Number recruited for Collaborative I<sup>1</sup>/DDST</li> <li>• Nursing home characteristics (e.g., bed size)/Nursing Home Compare (NHC)</li> <li>• Resident characteristics (e.g., age, number of comorbidities)/ Master Beneficiary Summary File (MBSF)</li> </ul>	None
To understand the drivers and barriers to participating in the QIN-QIO program for nursing homes	None	<ul style="list-style-type: none"> <li>• Open ended questions/ Interviews or focus groups with QIN-QIO Task Leads</li> </ul>
To gain insight into findings from analysis of claims data	None	<ul style="list-style-type: none"> <li>• Open-ended questions/Interviews or focus groups with QIN-QIO Task Leads</li> </ul>

Outcome Evaluation Data Needs	Existing Measures/Sources	Proposed New Measures
To understand the usefulness of tools and activities in the National Nursing Home Quality Care Collaborative (NNHQCC) program to help nursing homes meet Quality Assurance and Performance Improvement (QAPI) requirements and/or tools in need of improvement (e.g., Composite score, Learning Action Networks (LANs), webinars, etc.)	<ul style="list-style-type: none"> <li>• Records of use/quarterly reports</li> </ul>	<ul style="list-style-type: none"> <li>• Perceived usefulness from QIN-QIO Task Leads/Interviews or focus groups</li> <li>• Perceived usefulness from nursing home administrators/ Nursing home administrator interviews</li> <li>• Nursing home administrators' awareness of resources/ Nursing home administrator survey</li> <li>• Peer coach perceptions of effectiveness/Peer coach interviews</li> </ul>
To ascertain nursing homes' uptake of major QAPI strategies and activities (e.g. performing root cause analysis, plan-do-study-act cycles, etc.)	<ul style="list-style-type: none"> <li>• None</li> </ul>	<ul style="list-style-type: none"> <li>• Perceived use of QAPI-related resources by QIN-QIO Task Leads/Interviews or focus groups</li> <li>• Nursing home use of QAPI-related resources / Nursing home administrator survey</li> <li>• Nursing home awareness of QAPI and use of resources/ Nursing home administrator interviews</li> </ul>
To assess whether Medicare spending is associated with antipsychotic use	<ul style="list-style-type: none"> <li>• Antipsychotic use/Minimum Data Set (MDS) 3</li> <li>• Medicare program spending/CMS</li> </ul>	None
To assess associations between the NNHQCC composite score and health status and Medicare spending	<ul style="list-style-type: none"> <li>• NNHQCC Quality Composite Measure Score<sup>1</sup>/DDST</li> <li>• Health proxies (Emergency department (ED) visits, observations, number of hospitalizations)/Claims Parts A &amp; B</li> <li>• Medicare spending/Claims Parts A &amp; B</li> </ul>	None

Outcome Evaluation Data Needs	Existing Measures/Sources	Proposed New Measures
To analyze trends in HACs and clinical outcomes among nursing home residents in QIO and non-QIO facilities during the 11th SOW	<ul style="list-style-type: none"> <li>• Percentage of residents who received antipsychotic medications<sup>1</sup>/MDS 3</li> <li>• Percentage of residents who were physically restrained/ MDS 3</li> <li>• Percentage of residents who had worsening pressure ulcers/MDS 3</li> <li>• Number of residents infected by <i>C. diff</i>/NHSN</li> <li>• Percentage of residents who required ED visits, observations, or hospitalization/Claims Parts A &amp; B</li> </ul>	None
To calculate the proportion of the effect size estimates found following the analyses performed in addressing the quality measure and clinical outcomes that can be directly attributed the QIN-QIO program	None	<ul style="list-style-type: none"> <li>• Nursing home administrators' perceived proportion of influence/ Nursing home administrator survey and interviews</li> </ul>
To calculate the return on investment for CMS from the Collaborative program	<ul style="list-style-type: none"> <li>• Claims Parts A, B &amp; D for beneficiary spending</li> <li>• CMS program officers for program spending</li> </ul>	None

<sup>1</sup>Data collected as part of contract evaluation