Economic Review Analytic Framework: Tailored Pharmacy-based Interventions to Improve Medication Adherence for Cardiovascular Disease Prevention and Management

Intervention Effectiveness

Tailored Pharmacy-based Interventions → Patients with CVD risk factors → Adherence barriers are removed or reduced → Improved adherence to medications as prescribed for

- Hypertension
- Hyperlipidemia
- Anti-coagulation
- CVD management

→ Reduced CVD risk

- BP control
- Lipid control
- Aspirin use
- Overall CVD risk

→ Reduced CVD

- Morbidity
- Mortality

Economic Outcomes

Cost of Pharmacy Interventions

- Pharmacist time*
- Patient education materials and adherence aids*
- Patient medical supplies
- Develop patient materials
- Patient time
- Communication technology and devices
- Overhead – facility

Costs of Added Interventions*

- Team-based care
- Case management
- Other

Change in Cost of Healthcare

- Inpatient stays*
- Emergency department visits*
- Outpatient specialist visits*
- Outpatient PCP visits*
- Medications*
- Labs*

Increased Productivity

- Patients at their worksites

Cost-effectiveness

- Cost per QALY saved
- Cost per DALY averted

Cost-Benefit

*Cost drivers

QALY: Quality Adjusted Life Years
DALY, Disability Adjusted Life Year

### Icons in Community Guide Analytic Frameworks

#### Intervention Effectiveness

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Circle" /></td>
<td>Intervention</td>
</tr>
<tr>
<td><img src="image" alt="Rectangular Box" /></td>
<td>Recommendation outcome</td>
</tr>
<tr>
<td><img src="image" alt="Square" /></td>
<td>Other intermediate outcome/variable (that are not recommendation outcomes)</td>
</tr>
<tr>
<td><img src="image" alt="Rectangle" /></td>
<td>Population</td>
</tr>
<tr>
<td><img src="image" alt="Hexagon" /></td>
<td>Potential Effect Modifiers (affecting causal relationships)</td>
</tr>
<tr>
<td><img src="image" alt="Dashed Rectangle" /></td>
<td>Potential Additional Benefits/Potential Harms</td>
</tr>
</tbody>
</table>

#### Economic Outcomes

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><img src="image" alt="Yellow Hexagon" /></td>
<td>Intervention costs</td>
</tr>
<tr>
<td><img src="image" alt="Blue Hexagon" /></td>
<td>Economic benefit</td>
</tr>
<tr>
<td><img src="image" alt="Red Hexagon" /></td>
<td>Economic outcome for Task Force finding</td>
</tr>
<tr>
<td><img src="image" alt="Pink Hexagon" /></td>
<td>Other economic outcomes</td>
</tr>
</tbody>
</table>

#### Arrows

- ![Unidirectional block arrow](image) Unidirectional block arrows are applied between intervention and population icons
- ![Unidirectional arrow](image) Unidirectional arrows for causal relationships
- ![Bidirectional arrows](image) Bidirectional arrows show feedback loops