Research Related to PROs: Keeping Us Accountable

Steven M. Bradley, MD, MPH
Cardiology, Minneapolis Heart Institute (MHI)
Associate Director, MHI Center for Healthcare Delivery Innovation

The Need vs The Challenges

• The Need
  – Instruments (surveys) to capture patient reported measures of symptom status, functional status, and health related quality of life (at a minimum)

• The Challenges
  – Long surveys, administer/score/integrate in care
  – Multimorbid patients
  – Impact on patient & provider relationship (WHY)
Addressing the Challenge of Administration and Integration

- Moving from long to shorter instruments
- Self-administered (phone, app)
- Summary score

- Are properties of the instrument intact?
- Do the results vary on method?
- What is the summary?

Patient Reported Health Status (PROST) Capture in VA

<table>
<thead>
<tr>
<th>Measure</th>
<th>Preprocedural</th>
<th>Follow-up Results (1 month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;Q-7 Summary Score</td>
<td>64</td>
<td>100</td>
</tr>
<tr>
<td>SAQ-7 Domain Scores</td>
<td>AF=76</td>
<td>AF=100</td>
</tr>
<tr>
<td>(Angina Frequency [AF],</td>
<td>PL=40</td>
<td>PL=100</td>
</tr>
<tr>
<td>Physical Limitation [PL],</td>
<td>QOL=50</td>
<td>QOL=100</td>
</tr>
<tr>
<td>and QOL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAQ Angina Stability</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Rose Dyspnea Questionnaire</td>
<td>Grade 3</td>
<td>Grade 0</td>
</tr>
</tbody>
</table>

Addressing the Challenge of Multimorbidity

- Coronary artery disease: 3 surveys (14 items)
- Multimorbidity the norm
  - 10 chronic conditions
  - Each with important PROs
- Burden?
- Disease specific vs global

Making PROs Impactful to Patients and Providers

- Informing orthopedic surgery recovery and treatment plans
- Identifying clinical change independent of a clinical visit