Hypoglycemia and Quality Measurement

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The Triple Aim

Affordable Care
Better Care
Healthy People/Communities
### Comprehensive Overview of CMS Quality Programs

<table>
<thead>
<tr>
<th>Hospital Quality</th>
<th>Physician Quality</th>
<th>PAC Quality</th>
<th>Payment Models</th>
<th>Population Health</th>
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</thead>
<tbody>
<tr>
<td>- Meaningful use EHR incentive</td>
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<td>- Inpatient rehabilitation facility</td>
<td>- Medicare Shared Savings Program (ACOs)</td>
<td>- Medicare Part C</td>
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<tr>
<td>- Inpatient quality reporting</td>
<td>- Physician Quality Reporting System (PQRS)</td>
<td>- Nursing Home Compare measures</td>
<td>- Hospital value-based purchasing</td>
<td>- Medicare Part D</td>
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<td>- Outpatient quality reporting</td>
<td>- Value-based Payment Modifier (VM)</td>
<td>- LTCH quality reporting</td>
<td>- Physician Feedback</td>
<td>- Medicaid Adult Core Measures</td>
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<tr>
<td>- Ambulatory surgical centers</td>
<td>- Maintenance of certification</td>
<td>- Hospice quality reporting</td>
<td>- ESRD QIP</td>
<td>- Medicaid Child Core Measures</td>
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<td>- Readmission reduction program</td>
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<td>- Home health quality reporting</td>
<td>- Innovations Pilots</td>
<td>- Health Insurance Exchange Quality Reporting System (QRS)</td>
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<td>- PAC payment reduction program</td>
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<td>- PPS-exempt cancer hospitals</td>
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<td>- Inpatient psychiatric facilities</td>
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### Hypoglycemia Contribution to Health Burden

- **Ambulatory Patients**
  - Insulin 1st most common drug implicated in ED visits for ADEs overall (~8%)\(^1\)
  - Insulin and oral diabetes drug implicated in ~25% of emergent hospitalizations for ADEs in older adults\(^2\)

- **Hospitalized Patients**
  - Hypoglycemia was 3rd most common ADE\(^3\)

- **Skilled Nursing Facility Patients**
  - Hypoglycemia was 1st most common ADE\(^4\)

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1. *JAMA*. 2006;296:1858-1866  
3. Adverse Events in Hospitals, 2010, OEI-06-09-00090  
National Adverse Drug Event Action Plan

Three key focus areas

- Hypoglycemia-inducing medications
- Anticoagulation medications
- Opioids

National Adverse Drug Event Action Plan

Four key strategies

- Surveillance
- Evidence-based prevention tools
- Incentives and Oversight
- Research
Four key strategies

- Surveillance
- Evidence-based prevention tools
- Incentives and Oversight
- Research

National Focus on Hypoglycemia Measures

- Update measures
  - Individualize hypoglycemic risk targets, comorbidities
  - Coordinated models of care (esp. inpatient)
  - Most recent science
  - ER/Hospitalizations from ambulatory care, community
- Address payment barriers to uptake of evidence-based, high-quality ADE prevention strategies
  - E.g., use of patient engagement and health literacy principles.
- Improve EHR standards to identify high risk patients
- Transitions of Care/Coordinated Care
  - 2/3 of post-discharge complications are from ADEs

Current Measure Examples

- **Community setting**
  - PQA Diabetes Dosing Measure
    - The percentage of patients who were dispensed a dose higher than the daily recommended dose for the following therapeutic categories of oral hypoglycemics: biguanides, sulfonylureas, thiazolidinediones and DPP-IV inhibitors.
    - Currently included inside CMS Part C & D Display Measures

- **Inpatient setting**
  - NQF 2363: Glycemic Control – Severe Hypoglycemia
    - Patients administered short acting insulin within 12 hours or other DM agent within 24 hours
    - Suitable for inclusion inside of the Hospital Inpatient Quality Reporting System

DDM 5-Year Plan Average Performance

- **PDP & MA-PD Measure Performance**

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<table>
<thead>
<tr>
<th>Year</th>
<th>Performance</th>
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<tbody>
<tr>
<td>2011</td>
<td>1.71%</td>
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<tr>
<td>2012</td>
<td>1.33%</td>
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<tr>
<td>2013</td>
<td>1.13%</td>
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<tr>
<td>2014</td>
<td>0.89%</td>
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<tr>
<td>2015</td>
<td>0.74%</td>
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Source: CMS Part C & D Display Measure Data
**New PQA Measure Concept**

- **Serious Hypoglycemic Events Requiring Hospital Admission or ED Visit Associated with Anti-Diabetic Medications**
  - The rate of events among individuals receiving anti-diabetes medications that
    - have evidence of a hospitalization or emergency department visit related to a hypoglycemic event
  - expressed as number of events per member-months.
  - This measure is used among plans with both prescription and medical claims/services, and a lower value is indicative of higher quality

- **Currently undergoing measure testing**

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**Questions?**

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