

# Hypoglycemia and Quality Measurement

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## The Triple Aim



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## Comprehensive Overview of CMS Quality Programs



Hospital Quality	Physician Quality	PAC Quality	Payment Models	Population Health
<ul style="list-style-type: none"> <li>▪ Meaningful use EHR incentive</li> <li>▪ Inpatient quality reporting</li> <li>▪ Outpatient quality reporting</li> <li>▪ Ambulatory surgical centers</li> <li>▪ Readmission reduction program</li> <li>▪ HAC payment reduction program</li> <li>▪ PPS-exempt cancer hospitals</li> <li>▪ Inpatient psychiatric facilities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Meaningful use EHR incentive</li> <li>▪ Physician Quality Reporting System (PQRS)</li> <li>▪ Value-based Payment Modifier (VM)</li> <li>▪ Maintenance of certification</li> </ul>	<ul style="list-style-type: none"> <li>▪ Inpatient rehabilitation facility</li> <li>▪ Nursing Home Compare measures</li> <li>▪ LTCH quality reporting</li> <li>▪ Hospice quality reporting</li> <li>▪ Home health quality reporting</li> </ul>	<ul style="list-style-type: none"> <li>▪ Medicare Shared Savings Program (ACOs)</li> <li>▪ Hospital value-based purchasing</li> <li>▪ Physician Feedback</li> <li>▪ ESRD QIP</li> <li>▪ Innovations Pilots</li> </ul>	<ul style="list-style-type: none"> <li>▪ Medicare Part C</li> <li>▪ Medicare Part D</li> <li>▪ Medicaid Adult Core Measures</li> <li>▪ Medicaid Child Core Measures</li> <li>▪ Health Insurance Exchange Quality Reporting System (QRS)</li> </ul>

## Hypoglycemia Contribution to Health Burden



- Ambulatory Patients
  - Insulin 1st most common drug implicated in ED visits for ADEs overall (~8%)<sup>1</sup>
  - Insulin and oral diabetes drug implicated in ~25% of emergent hospitalizations for ADEs in older adults<sup>2</sup>
- Hospitalized Patients
  - Hypoglycemia was 3rd most common ADE<sup>3</sup>
- Skilled Nursing Facility Patients
  - Hypoglycemia was 1st most common ADE<sup>4</sup>

1. JAMA. 2006;296:1858-1866 2. N Engl J Med. 2011;365:2002-2012  
 3. Adverse Events in Hospitals, 2010, OEI-06-09-00090  
 4. Adverse Events in Skilled Nursing Facilities, 2014, OEI-06-11-00370

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## National Adverse Drug Event Action Plan



### Three key focus areas

- Hypoglycemia-inducing medications
- Anticoagulation medications
- Opioids

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## National Adverse Drug Event Action Plan



### Four key strategies

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

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## National Adverse Drug Event Action Plan



### Four key strategies

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

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## 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<sup>1</sup>

1. Forster AJ et al. *Ann Intern Med* 2003;138:161-7.

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## 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

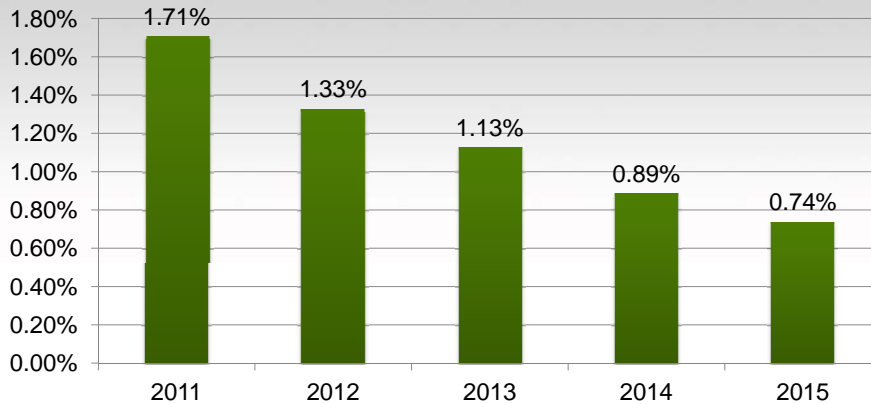
- NQF 2363: Glycemic Control – Severe Hypoglycemia
- Patients administered short acting insulin within 12 hours or other DM agent within 24 hours
- Suitable for inclusion inside of the Hospital Inpatient Quality Reporting System

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## DDM 5-Year Plan Average Performance



### PDP & MA-PD Measure Performance



Source: CMS Part C & D Display Measure Data

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## 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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