Reducing the Incidence of Hypoglycemia in Inpatients Receiving Insulin or Oral Hypoglycemics

Bernadette M. Hebert R.Ph, M.S.
Director, Pharmacy, Nutrition & Anesthesia
MidState Medical Center
Meriden, CT
Objectives & About Us

Mistate Medical Center is a 144 - Bed Community Hospital located in Central Connecticut

Our AIM: Reduce the incidence of Hypoglycemia by 20% in our inpatient population by December 31, 2013

Objective: To provide participants with tools and strategies to successfully initiate a Hypoglycemia Reduction Program
Tests & What we Learned

- Reviewed current policies and procedures and compared with best practice recommendations
  - Our POC machines and labels noted hypoglycemia as 60mg/dl
  - Our policy states 70mg/dl
  - Update POC Labels and monitors and educate RNs and CCAUs

- Incorporated Pyxis Trigger tool for timely notification of hypoglycemic events (D50W)

- Implemented a Hypoglycemia Audit Tool to retrospectively & prospectively review occurrences of Hypoglycemia

- Established upper limits for Insulin Infusions on the Smart Pump (Soft limits)
Barriers & How we Resolved

• **Getting Started!**
  - Not being the content expert
  - Brainstorming session with Diabetes Educator

• **Collection of Data**
  – Manual consolidation of Lab Data (Glucose < 50mg/dl) and Pharmacy Data (Insulin/Hypoglycemic Agents)
Measures – What & How

Occurrence of Hypoglycemia (≤50mg/dl) in inpatients receiving insulin/hypoglycemics

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<tr>
<th></th>
<th>Total Inpatients</th>
<th>Pavilion C</th>
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<tbody>
<tr>
<td>Baseline 6mo</td>
<td>15%</td>
<td>10%</td>
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<tr>
<td>Jan-12</td>
<td>10%</td>
<td>5%</td>
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<td>Feb-12</td>
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<td>Mar-12</td>
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<td>May-12</td>
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<td>Jun-12</td>
<td>15%</td>
<td>10%</td>
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Advice for others

- Include content experts and willing participants
  - Diabetes Center Educator
  - Data showed we had the most opportunity in ICU/PCU (Use of D50W)
    - Focusing on this area for chart audits and small tests of change

- Incorporate into existing Performance Improvement Processes (H3W Meetings)

- Routinely share with Senior Clinical Leaders and Patient Safety Committee
Wrap Up & Next Steps

Summary
Wrap Up & Next Steps

Questions?
Wrap Up & Next Steps

• Next Tests of Change
  ✓ Review results of hypoglycemia audit
  ✓ Policy change – new insulin orders when changing from parenteral to enteral nutrition
  ✓ Evaluate/Review coordination of meals and insulin times
  ✓ Reduce/Eliminate Sliding Scale Variation
  ✓ Determine Appropriate BS ranges
Contact Information

Bernadette M. Hebert R.Ph., M.S.
bhebert@midstatemedical.org
203-694-8395