Evidence Based Practice

- Evidence Based Practice:
  - Improves patient outcomes
  - Conducted to solve problems and make clinical decisions
  - Projects conducted using rigorous methods to ensure unbiased recommendations

- Joint Commission:
  - Essential element in delivery of quality patient care

- Magnet Organizations:
  - Must demonstrate the support and advancement of EBP

Inpatient Diabetes Management Evidence Based Guidelines

- The Joint Commission
- The American Association of Diabetes Educators
- The American Diabetes Association
- American College of Endocrinologists
- American Association of Clinical Endocrinologists
- American Heart Association
- Society of Thoracic Surgeons
- American Stroke Association
- Cystic Fibrosis – American Thoracic Society
- Hyperglycemia and Lower Limb Arthroplasty
- ...And Many More...

Quality Improvement

- Outcome Improvement QI: Improve glycemic outcomes
  - Inpatient Diabetes Team Development Project
    - Improved patient & family satisfaction
    - Improved staff satisfaction
  - Reactive or Descriptive QI: React to glycemic related adverse event
    - Orthopedic Surgery Glycemic Control Improvement Project
    - Decrease post op infection
    - Apply SCIP cardiac glycemic control processes to orthopedic population
  - Cost Containment QI: Cost effective diabetes related solutions
    - Decrease 30 Day readmission
    - Discharge pharmacist program
    - Follow up appointment for chronic diseases
    - Outpatient diabetes services
    - Gastroparesis nutrition project

Translation of Evidence Into Practice

- Identify the target population
  - ALL patients admitted with a diagnosis of diabetes
  - Patients using insulin pump
  - Postoperative patient populations with diabetes/hyperglycemia
- Obtain organizational support
  - Identify key stakeholders
  - Committee participation
- Implementation plan
  - Patient and family education
  - Staff education
  - Physician/provider education
- Hardware adoption
  - Data analysis
  - Sustained results
Create a System Map

Project #1: Outcome Improvement QI
Inpatient Certified Diabetes Educator Role

Diabetes Team: Identify The Need

What is Known: Literature Review

What is Known: Literature Review
What is Known: Literature Review

- Scholarly Journals
  - Annals of Thoracic Surgery
  - Diabetes Care
  - Endocrine Practice
  - Journal of Clinical Endocrinology
  - CME: On Call
  - The Diabetes Educator
  - Nursing Economics
  - American Journal of Health System Pharmacists
  - American Association of Nurse Anesthetists Journal
  - Nursing Administration Quarterly
  - International Journal of Healthcare Administration
  - Applied Psychology

Project #2: Reactive/Descriptive QI Orthopedic Postoperative Glycemic Control

- Physician Concerns: Increased infection rate...
- Nursing Concerns: Not enough time for...
- Patient Concerns: Discomfort with...
- Physician/Organization Concerns: Cost effective plan
  - Transition from inpatient insulin to home oral diabetes medications
  - Complex insulin therapies
  - Provision of diabetes education
  - Uncomfortable with insulin therapy

System Map: Outcome Improvement QI

- Literature Review
  - Throughput: Implementation
  - Phase 1
    - Input: Current State
      - VP Diabetes Services
    - Unit Educator
    - NP
    - Attending Surgeon
    - CNO Administration
    - Nurse Executive Committee
    - Medical Executive Committee
  - Phase 2
    - Input: Current State
      - VP Cardiac Services
    - Stakeholder engagement
      - Supportive of nursing research and implementation of evidence based practice
      - Supportive of Advanced Practice led evidence based projects
      - Supportive of Shared Governance model
      - Shared Governance model
      - Organization Environment
    - Throughput: Implementation
      - Stakeholder engagement
      - Staff compliance with Hypo treatment & recheck
      - Staff satisfaction with new order sets
      - Hypoglycemia: rates & etiology
      - Alternate Data
      - New to Insulin/Devices
    - Data Analysis
      - Feedback: 30 day readmission
      - Feedback: Throughput: Implementation
      - Feedback: Data Analysis
      - Reduced readmission: 8/7/2015

Project #3: Cost Containment Hospital Admission/Readmissions

- Physician/Organization Concerns: Cost effective plan
- Nursing Economics: Not enough time for...
- Patient Concerns: Uncomfortable with...

System Map: Cost Containment QI

- Literature Review
  - Stakeholder engagement
    - Supportive of community based innovative ideas
    - Supportive of community based innovative ideas
    - Supportive of Advanced Practice led evidence based projects
    - Supportive of Advanced Practice led evidence based projects
    - Supportive of nursing research and implementation of evidence based practice
    - Supportive of Shared Governance model
    - Shared Governance model
    - Organization Environment
  - Throughput: Implementation
    - Stakeholder engagement
    - Supportive of nursing research and implementation of evidence based practice
    - Supportive of Advanced Practice led evidence based projects
    - Supportive of Shared Governance model
    - Shared Governance model
    - Organization Environment
References


References (continued)


