AHRQ Quality Indicator Software Version 4.1 – Additional Detail

Jeffrey Geppert, EdM, JD, Battelle Memorial Institute

John Bott, MSSW, MBA, Contractor, Agency for Healthcare Research and Quality

January 25 and 27, 2010

2:00 to 4:00 pm ET

Toll Free: 1-877-939-8827; Passcode AHRQ QI

Agenda

- **Tracking the indicators**
  - What indicators were added, deleted, re-named, moved or materially refined

- **Incorporating new data elements**
  - POA and point of origin

- **Incorporating new codes**
  - ICD-9-CM and MS-DRG
  - Special emphasis: pressure ulcers and central venous catheter-related bloodstream infections

Agenda (continued)

- **Incorporating new data**
  - Using a one-year reference population
  - Applying the software using more recent data

Tracking the Indicators

- **Indicators that were added**
  - Neonatal Quality Indicators
    - NQI #2 - Neonatal Mortality
    - NQI #3 - Bloodstream infection in neonates
- **Indicators that were deleted**
  - Patient Safety Indicators
    - PSI #1 - Complications of anesthesia
    - PSI #20 - OB Trauma: Cesarean Delivery
- **Indicators that were re-named**
  - Patient Safety Indicators
    - PSI #3 – Decubitus Ulcer ⟶ Pressure Ulcer

Tracking the Indicators

- **Indicators that were re-named (continued)**
  - Patient Safety Indicators
    - PSI #7 – Selected Infection due to Medical Care ⟶ Central Venous Catheter-related bloodstream infections

- **Indicators that were re-named and moved**
  - Pediatric Quality Indicators
    - PDI #4 – Iatrogenic Pneumothorax in Neonates ⟶ NQI #1 in the Neonatal Quality Indicators

Tracking the Indicators

- **Indicators that were moved (SAS Only)**
  - Patient Safety Indicators
    - PSI #17 – Birth Trauma: Injury to Neonate
  - Prevention Quality Indicators
    - PQI #9 – Low Birth Weight
- **No change to the Windows application (WINQI)**
  - Indicators appear in the same module "tab" as in Version 3.2

Tracking the Indicators

- **Indicators that were materially refined**
  - Inpatient Quality Indicators
    - IQI #1 and #8 – Esophageal Resection Volume and Mortality
      - New Code (43.99)
  - Patient Safety Indicators
    - PSI #3 – Pressure Ulcer
      - New Staging Coding (I-IV)
    - PSI #7 – Central Venous Catheter-related bloodstream infections
      - New Code (999.31)

Incorporating New Data Elements

- ■ **Present on Admission (POA)**
  - – UB-04 Coding (FL 67)
    - ■ Y – Present on admission
    - ■ N – Not present on admission
    - ■ U – Unknown, not documented
    - ■ W – Clinically undetermined
    - ■ E – Exempt

Incorporating New Data Elements

- **Point of Origin (FL 15)**
    - When Admission Type is not "newborn"
        - 4 – Transfer from a Hospital
        - 5 – Transfer from a Skilled Nursing Facility (SNF)
        - 6 – Transfer from another Health Care Facility
    - When Admission Type is "newborn"
        - 4 – Not used
        - 5 – Born inside this Hospital
        - 6 – Born outside of this Hospital

Incorporating New Codes

- **Incorporating new codes**
  - ICD-9-CM
  - MS-DRG
    - CMS no longer supports Version 24 (CMS-DRG)
- **The AHRQ QI team proposed coding changes & clarifications to ICD-9 to enhance accuracy & use of some indicators**
  - Retinopathy of prematurity
  - Necrotizing enterocolitis
  - Disruption of postoperative wound
  - Deep vein thrombosis
  - Transfusion reaction

Incorporating New Data

- **Using a one-year reference population**
  - 2007 State Inpatient Data
    - Adult has 27,369,746 observations
    - Pediatric has 5,546,905 observations
    - Pediatric defined as age < 18 and MDC not 14
- **Applying the software to a "population of interest"**
  - Different years
  - Different population
  - Different hospitals

Version 4.1 – Selected Topics: Approximately monthly webinars

- **Draft list of topics**
  - Provider level risk-adjustment model
    - Incorporating POA into the outcome of interest and comorbidities
    - What the model does when POA is not available
    - Accounting for bias and uncertainty
  - Using the AHRQ QI composites
  - Using the area-level AHRQ QIs
  - Update: NQF and CMS
  - Planned future development
  - Other ideas? At this time (next slide), or via email:
    - support@qualityindicators.ahrq.gov

For more information…

AHRQ QIs

- Web site: http://qualityindicators.ahrq.gov/
  - AHRQ QI documentation and software are available at the AHRQ QI web site

- Staff:
  - Mamatha Pancholi
    - Mamatha.Pancholi@ahrq.hhs.gov
  - John Bott
    - John.Bott@ahrq.hhs.gov

Questions?