Adverse Drug Event Cohort Framework



Jennifer Massey, PharmD SME – Opioid Stewardship/Adverse Drug Events





COLLABORATORS:

Alabama Hospital Association
Alliant Health Solutions
Comagine Health
Georgia Hospital Association
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Hospital Quality Improvement

Welcome from all of us!













Adverse Drug Event Cohorts

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Jennifer has 15 years of experience in clinical pharmacy in the acute care hospital setting and in various roles at Alliant Health Solutions working on the CMS contract for the Quality Innovation Network–Quality Improvement Organization (QIN–QIO). She currently serves as SME for Opioids and Adverse Drug Events for HQIC.

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Learning Objectives

- Learn Today:
 - Introduction to Adverse Drug Event Cohort structure
 - Understanding of expectations
 - From Subject Matter Experts
 - From QI Coach
 - From Hospitals
- Use Tomorrow:
 - Access available tools and resources to implement targeted interventions



Cohort Structure

- Targeted cohort members have been identified based on data
- Alliant supplies quantitative data
- Hospital supplies qualitative data make it your program
 - What is happening in your building
 - What are your pain points around these topics
- Use quantitative and qualitative data to identify interventions
- Apply interventions in 1:1 dialogue based on barriers
- 30 day focus plans small, fast tests of change



Expectations of QI Coach/Alliant SMEs

- Monthly 1:1 focus call with QI coach for cohort intervention only
 - SME will attend as invited
- Monthly review of data portal access
- PDSA review and implementation with each coaching call
- Provide timely resources for specified interventions

Drop into chat what you expect or need from QI Coach/SME



Expectations for Hospitals

- Attend monthly 1:1 coaching calls for specific cohort topics
- Access portal data during coaching calls
- Brainstorm barriers for deficiencies based on available data (fishbone)
- With QI Coach use barriers to determine a potentially successful intervention
- Implement intervention using rapid cycle (30 day) PDSA
- Continue rapid cycle improvement until change is embedded and implement additional interventions to amplify success



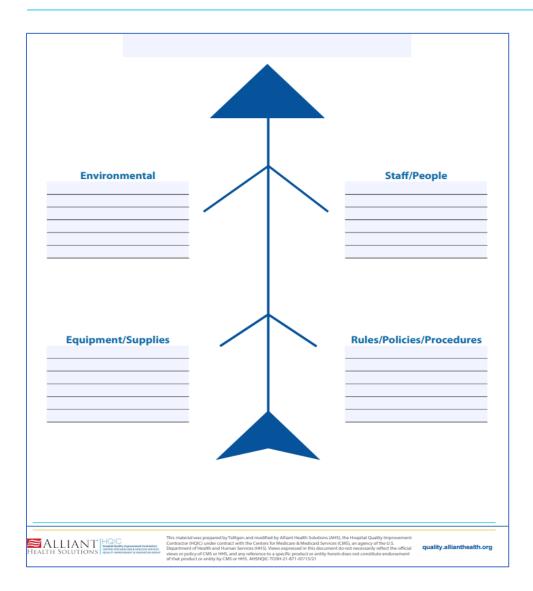
What's in our toolbox?

- Fishbone Diagram
- PDSA Template/Examples/Recordings
- QI Bootcamp Series
- Coaching Packages
 - TOP 5
- HQIC Website Resources
- Portal Access
- Monthly Newsletter
- 1:1 Coaching
- Access to Subject Matter Experts





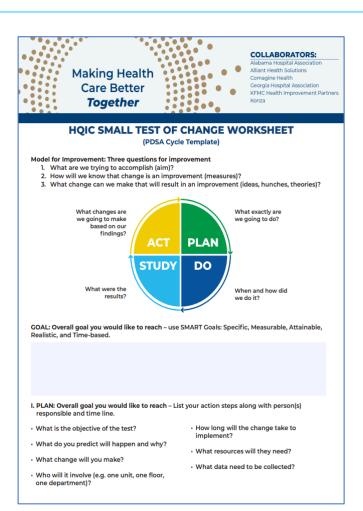
Fishbone Diagram



- Problem = Head of the Fish
 - Determined based on quantitative data
- Bones = major categories of contributors to the problem
 - Determined based on qualitative data



PDSA Template



HQIC SMALL TEST OF CHANGE PDSA WORKSHEET Describe your first (or next) test of change including person responsible, when to be done and Next test of change Where to be Responsible done done List the tasks needed to set up this test of change. List the tasks (enter as many as you need to for When to be Where to be this test of change) Responsible done (Actual done (specify unit (Title &/or department, clinic, Predict what will happen when the test is What measures will you use to determine if the prediction is a success. Predictions (enter as many as you need to for this test of change) Measures for predictions (include a measure for each prediction)

TIQIC SMALE TEST OF CHANGE PESA WORF	JIILLI
II. DO: Describe what actually happen	ed when you ran the test of change.
Implement the change Try out the test on a small scale Carry out the test	 Document problems and unexpected observations Begin analysis of the data
	ults and how they compared to the predictions (set aside y the results and determine if the change resulted in the
Complete the analysis of the data Compare the data to your prediction	Summarize and reflect on what was learned. Look for: unintended consequences, surprises, successes, failures.
	e plan will be made for the next cycle from what you at you wanted, you try something else. Refine the change, he test).
Adapt – modify the changes and re PDSA cycle Adopt – consider expanding the ch in your organization to additional residents, staff, units	repeat PDSA cycle
ALLIANT Raula Gudin inspressed Convictor debt of the Conference of Convictor of Con	This and raise as proposed by the stable for Hardbook Improvement and modified by Allest Hardbook (MHC), the Hardbook Called Proposed Control (Feb. 2014) and the Called Called Proposed Control (Feb. 2014) and Allegories Called Call



PDSA Example: Naloxone Prescribing

- Plan: To prescribe naloxone for all patients discharged on an opioid
- Do: In EHR complete a build for naloxone prescription to automatically populate in discharge medication list when any order is entered for a CII-CV. Non-EHR method – education discharge nurse/case manager on contacting physician for naloxone order for any discharge Rx for CII-CV.
- Study: Run internal discharge medication data to assess effectiveness. Data shows certain units not as effective at contacting physician for Rx.
- Act: For discharge planning check list add Naloxone Rx line item.

REPEAT



Quality Improvement Basics Bootcamp

- 3 Part Series
- Tools/Recordings available on the Alliant HQIC Website
- Series Focus:
 - Quality improvement models and tools
 - Process improvement
 - Developing a quality improvement team/who should be at the table
 - Resources to be shared



Coaching Packages







Hospital Quality Improvement Contractors HEALTH SOLUTIONS CENTERS FOR MEDICARE & MEDICAID SERVICES *iQUALITY IMPROVEMENT & INNOVATION GROUP*

Targeted Interventions: Top 5 Opioids

- Formation of an Opioid Stewardship Committee
- Prescribe Narcan at discharge for patients who have a prescription for opioids
- Patient not concurrently prescribed opioids and benzodiazepines
- Patient offered non-pharmacologic comfort interventions for pain control
- Opioid committee/pharmacy reviews ADEs with use of reversal agents and audits documentation for s/s leading up to reversal agent administration

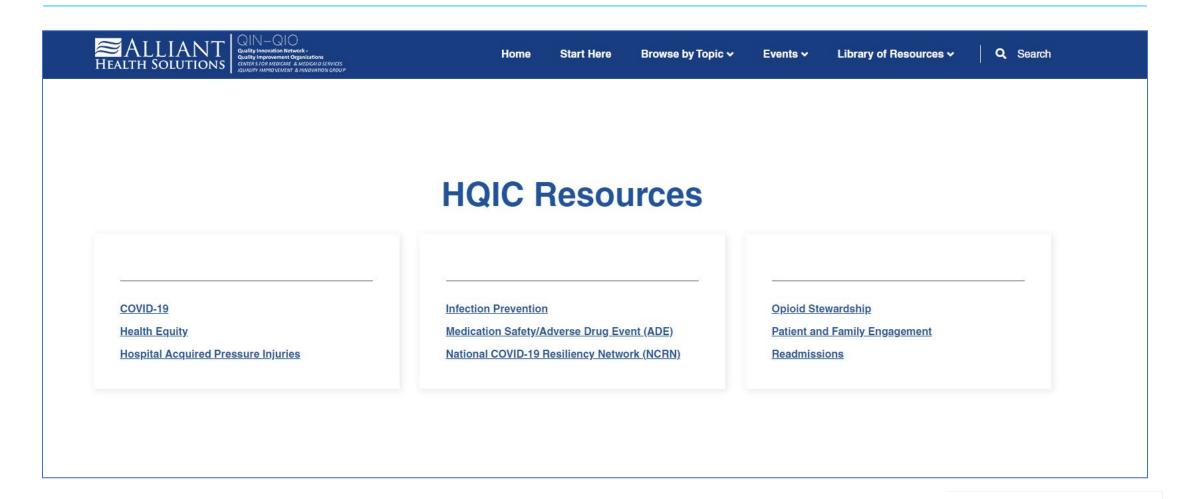


Targeted Interventions: Top 5 Hypoglycemic

- Hypoglycemic episodes and adverse drug events are evaluated for a root cause
- Ensure patients are not receiving sliding scale insulin alone
- Discharge plain tailored to the individual patient with diabetes
- Notification process for patients who have BG < 100
- Notification process for patients who are on glycemic agents who are suddenly NPO



HQIC Website Resources/Tools





HQIC Website Resources/Tools



Start Here

Browse by Topic >

Events >

Library of Resources ~

Q Search

Glycemic Adverse Drug Events



Alliant Resources

HQIC Coaching Package: Adverse Drug Events: Anticoagulants and Antiglycemics

Diabetes Zone Tool



National Resources

HHS: National Action Plan for ADE Prevention

The Glycemic Control Implementation Guide

3) Diabetes Care in the Hospital: Standards of Medical Care in Diabetes 2022

ISMP Medication Self-Assessment for High-Alert Medications

Society of Hospital Medicine. Glycemic Control for Hospitalists

Beers Criteria Medication List

IHI Global Trigger Tool for Adverse Events

IHI How-to Guide. Prevent Harm from High-Alert Medications

9) Consumer Medication Safety High-Alert Medication Learning Guides



Glycemic ADE Articles

Effectiveness of a Computerized Insulin Order Template in General Medical Inpatients With Type 2 Diabetes: A Cluster Randomized Trial

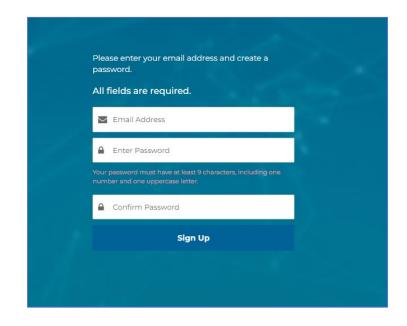
2) Impact of Glucose Management Team on Outcomes of Hospitalization in Patients with Type 2 Diabetes Admitted to the Medical Service

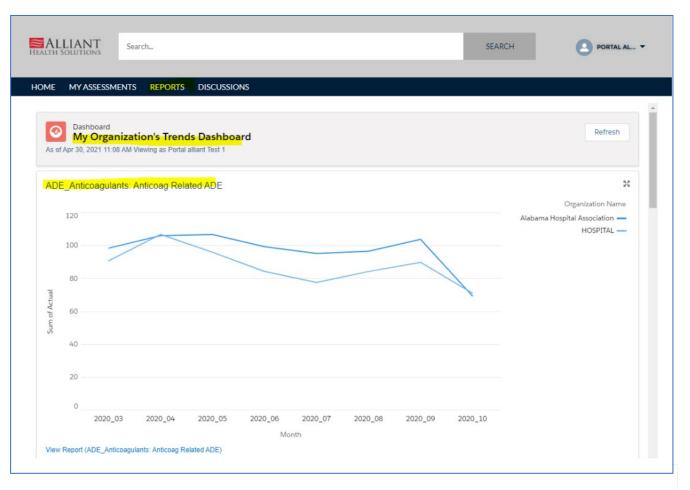
Hospital Guidelines for Diabetes Management and the Joint Commission-American Diabetes **Association Inpatient Diabetes Certification**

Know Your 'Five Rights': The Pharmacist's Role in **Medication Safety**



Portal Access







Monthly HQIC Newsletter

Expert Insights & Resources

Alliant HQIC Online Portal

Access the Alliant HQIC portal to view your assessments and measurement data, and chat with other HQICenrolled hospitals to share best practices, barriers and solutions. <u>Download Portal Instructions to Get Started</u>



Check In: How Are We Doing?

Alliant HQIC wants to hear from you! Please click here to share feedback with us.

Behavioral Health/Opioid Stewardship

Risk Factors for Opioid-Related Adverse Drug Events Among Older Adults After Hospital Discharge

The Journal of the American Geriatrics Society published a retrospective cohort study of a national sample of Medicare beneficiaries aged 65 years and older, hospitalized for a medical reason, with at least one claim for an opioid within two days of hospital discharge. Hospice care and patients admitted from or discharged to a facility were excluded. Researchers used administrative billing codes and medication claims to define potential opioid-related ADEs within 30 days of hospital discharge and competing risks regression to identify risk factors for these events. Read the Study.

Patient Safety

All-Cause Harm

All-Cause Harm Trigger Tool

We know that positive safety culture, engaged employees, and satisfying patient experiences reduce all-cause harm. We also know that harm is underreported and under-detected. The 2012 Office of Inspector General report noted hospital staff did not report 86% of events to incident reporting systems, partly because of staff misperceptions about what constitutes patient harm. How does your facility's safety plan define harm? What education does your staff receive on what constitutes an event that should be reported? How does your facility detect harm? Consider the use of a trigger tool. Triggers are screening tools that signal the need for a more intense record review to determine if harm occurred.

Institute for Healthcare Improvement, Trigger Tools

AHRQ: Triggers and Trigger Tools

OIG report: Hospital Incident Reporting Systems Do Not Capture Most Patient Harm

Developing and Evaluating an Automated All-Cause Harm Trigger System

Adverse Drug Events

Early Prescribing Outcomes After Exporting the Equipped Medication Safety Improvement Program

Prescribing potentially inappropriate medications (such as antihistamines, benzodiazepines, and muscle relaxants) can lead to adverse health outcomes. The Enhancing Quality of Prescribing Practices for Older Adults in the Emergency Department (EQUIPPED) program is a multicomponent intervention intended to reduce potentially inappropriate prescribing among older adults who are discharged from the emergency department. Twelve months after implementation at three academic health systems, the EQUIPPED program significantly reduced overall potentially inappropriate prescribing at one site; the proportion of benzodiazepine prescriptions decreased across all sites. Read More

- Timely journal articles on all HQIC topics
- Links to registration for all of our educational events
- Success stories from top performing hospitals
- Latest news from CMS
- Linked on HQIC website



Month 6 Sharing

- Which Top 5 Intervention was implemented at your hospital
- PDSA Examples
- Barriers faced
- How barriers were overcome
- Lessons learned
- Best practices



Resource Links:

- QI Tools:
 - PDSA Template
 - <u>Fishbone Template</u>
- Coaching Packages
 - Opioids
 - Hypoglycemic Agents
- HQIC Website:
 - Opioid Stewardship
 - Medication Safety/Adverse Drug Event

- Portal:
 - Portal Instructions
 - Portal Registration and Multifactor Authentication
 - Portal Navigation and Feature Overview
- QI Bootcamp Series:
 - Session 1
 - Session 2
 - Session 3

Key Takeaways

- Learn Today:
 - Understand new HQIC Cohort Structure
 - Understand expectations for SMEs, QI Coaches and hospitals



- Use Tomorrow:
 - Use available resources to implement positive change in your hospital for adverse drug events

How will this change what you do? Please tell us in the poll...

Questions?



Email us at HospitalQuality@allianthealth.org or call us 678-527-3681.



HQIC Goals



Behavioral Health Outcomes & Opioid Misuse

- ✓ Promote opioid best practices
- Decrease high dose opioid prescribing and opioid adverse events in all settings
- ✓ Increase access to behavioral health services



Patient Safety

- ✓ Reduce risky medication combinations
- ✓ Reduce adverse drug events
- ✓ Reduce C. diff in all settings



Quality of Care Transitions

- ✓ Convene community coalitions
- ✓ Identify and promote optical care for super utilizers
- ✓ Reduce community-based adverse drug events



Upcoming Events



QI Coaches will be scheduling 1:1 calls soon!

Opioid/ADE SME:

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COLLABORATORS:

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Hospital Quality Improvement



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Thank you for joining us! How did we do today?



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