

Tools to Improve Medication Safety

Preventing and Reducing Adverse Drug Events





Let's Chat!

Please share with us in chat:

- Reducing adverse drug events (ADEs) is important in my practice because _____.
- 2. The biggest barrier to reducing ADEs in my practice is _____.





Our Team



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www.atomAlliance.org/ADEs





Disclosures

We have no financial relationships to disclose.

We will not discuss off-label use or investigational use in our presentation.





Learning Objectives

At the completion of this activity, participants will be able to:

- 1. Explain what Quality Innovation Network-Quality Improvement Organizations (QIN-QIOs) are and what they do.
- 2. Identify the QIN-QIO that serves their state and region.





Learning Objectives (cont.)

- 3. Apply tools in atom Alliance's Medication Safety Starter Kit to improve medication safety and everyday patient care.
- 4. Describe how pharmacists and other stakeholders can partner with atom Alliance to improve medication safety.





Patient Story: Debbie Miller





http://atomalliance.org/the-urgent-need-to-raise-awareness-of-opioid-safety/





Adverse Drug Events

1.5 Million ADES Each Year

in the U.S. Healthcare System

Key facts:

ADEs contribute an extra \$3.5 billion in U.S. healthcare costs—up to \$5.6 million per U.S. hospital.





ADEs will happen in about the time it takes you to read this graphic



Older adults are up to seven times more likely than younger persons to experience an ADE requiring hospitalization.

Each hospital patient suffers

one medication error per day

on average.

ADEs result in approximately 1 million emergency room visits per year.



The top two medications implicated in ADEs are insulin (for diabetes) and warfarin (a blood thinner).

Sources: Institute of Medicine

Agency for Healthcare Research and Quality National Institutes of Health





Polling Question

How familiar are you with Quality Improvement Organizations (QIOs) and what they do?

- A. Very familiar
- B. Somewhat familiar
- C. Not at all familiar





What Are QIOs?

- Contracted by the Centers for Medicare & Medicaid Services (CMS)
- Melp healthcare providers deliver the right care at the right time, every time
- Offer objective assistance to unite patients, providers, community organizations and other stakeholders in making care safer and more effective
- Ensure Medicare beneficiaries receive the healthcare they deserve





What Are QIOs? (cont.)

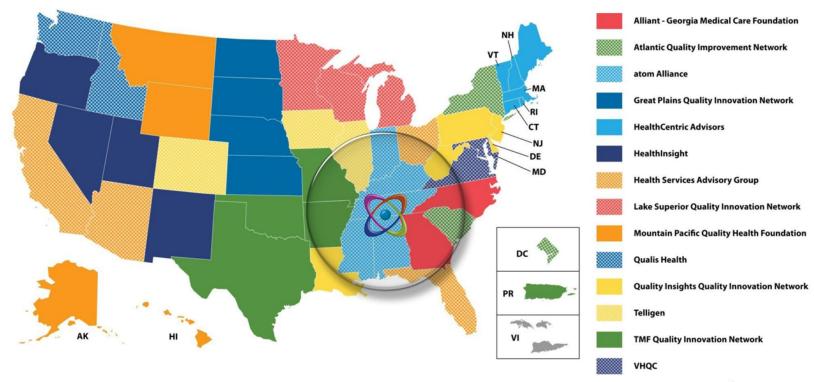
Two types of QIOs

- Two Beneficiary and Family Centered Care QIOs (BFCC-QIOs)
- Fourteen Quality Innovation Network-QIOs (QIN-QIOs)





QIN-QIOs Across the Nation

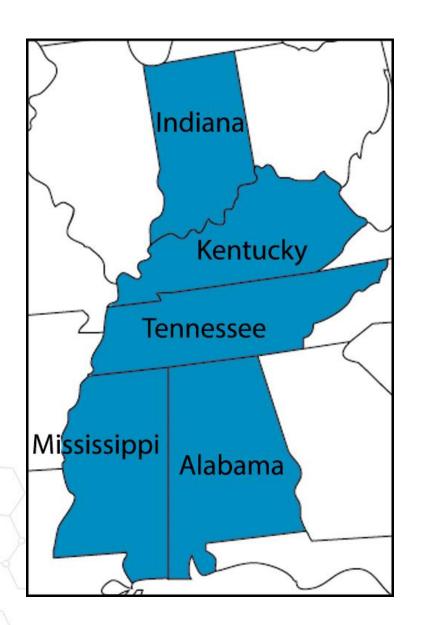








atom Alliance Partners





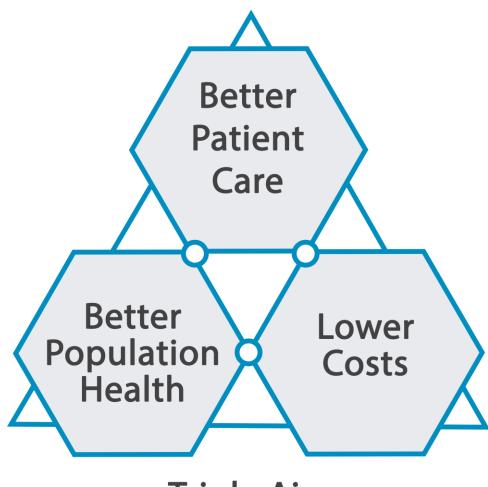








atom Alliance Focus



Triple Aim





Cross-Tasking

	Cardiac Health/ Million Hearts	Everybody with Diabetes Counts	Meaningful Use & Health Information Technology	Healthcare- Associated Infections	Healthcare- Acquired Conditions	Care Coordination	Value-based Purchasing & Physician Quality Reporting	Improving Adult Immunization Rates	Behavioral Health
Cardiac Health/ Million Hearts									
Everybody with Diabetes Counts									
Meaningful Use & Health Information Technology									
Healthcare- Associated Infections									
Healthcare- Acquired Conditions									
Care Coordination									
Value-based Purchasing & Physician Quality Reporting									
Improving Adult Immunization Rates									
Behavioral Health									

Quality Improvement Organizations
Sharing Knowledge, Improving Health Care.

CENTERS FOR MEDICARE & MEDICAID SERVICES



15.ASC32-ADE.09.009

atom Alliance and Medication Safety

National Action Plan for Adverse Drug Event Prevention











atom Alliance Med Safety Starter Kit

Medication Safety Workgroup

Thank you for participating in the Medication Safety Workgroup. Enclosed are information and tools to help plan and implement your workgroup goals to improve medication safety and reduce Adverse Drug Events/Potential Adverse Drug Events (ADE/pADEs). This is provided for your convenience; however, feel free to use other tools.

Inside: Resources and Tools

- · Introduction: Improving Medication Safety in the Community Setting
 - Goals, recruitment and collaboration, scope, population of focus, measures and evaluation
- Medication Safety Overview
 - Background, key definitions, Aim statement, target population, objectives, key stakeholder groups, responsibilities
- · Focusing on ADEs/pADEs: A Rationale
- · Carrying Out the ADE Work
 - Process steps, Learning and Action Networks, participant expectations
- Medication Safety Fact Sheet
- · ADE/pADE Data Tracking Form

ADE/pADE tracking form available in print and electronic format (we encourage electronic submission of data via the excel format provided)

Instructions and medication specific measure information

· Quality Improvement Tools for Intervention work

PDSA Rapid Cycle Improvement Worksheet

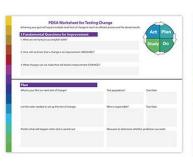
Method for documenting intervention planning, implementation, assessment and spread Fishbone Diagram Worksheet - Root Cause Analysis (RCA)

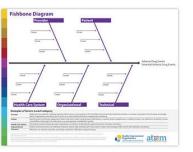
Method for identifying various causes of ADE/pADE within a setting and population SMART Goal Worksheet

Method for defining your intervention goals using Specific, Measurable, Attainable, Realistic

Download it here: http://bit.ly/1L3qxqz











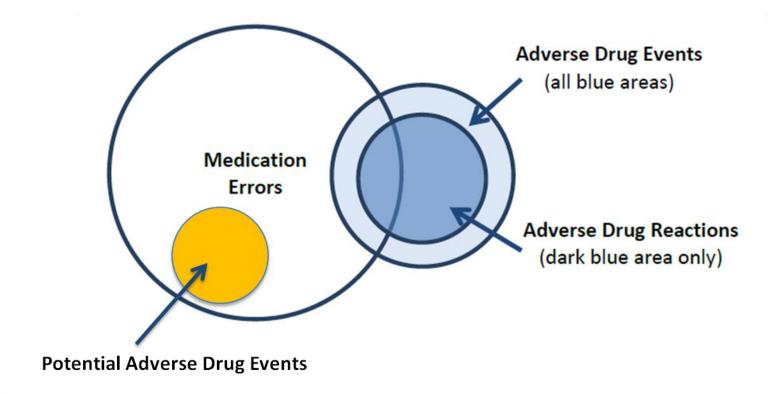
Overall Medication Safety Goals

- Improve patient safety by improving medication safety
- Reduce and prevent ADEs/potential adverse drug events (pADEs)
- Reduce preventable hospital admissions/readmissions associated with ADE/pADEs
- Integrate Medication Therapy Management (MTM)
- Improve health outcomes





Defining ADEs and pADEs







Defining ADEs and pADEs (cont.)

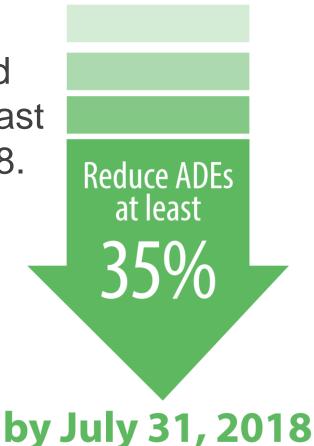
Term	Definition	Example
Adverse Drug Event (ADE)	<u>INJURY</u> resulting from medical intervention related to a drug. Most are preventable.	Bleeding from Coumadin® overdose
Potential Adverse Drug Event (pADE)	Medication error that could potentially lead to ADE, stopped before harm can occur.	Patient has an order for a medication to which he/she is allergic, order changed before patient takes the medication.
Adverse Drug Reaction (ADR)	Harm directly caused by a drug at usual doses. Causal link between the drug and the harm.	Allergic reaction
Medication Error	Inappropriate use of a drug that may or may not cause harm. Preventable.	Patient receives wrong medication





Aim Statement

Reduce ADEs among screened Medicare beneficiaries by at least 35 percent before July 31, 2018.







Target Population

Medicare beneficiaries

Using three or more medications

One medication must be an anticoagulant, diabetes agent or opioid







Why Focus on Anticoagulants, Diabetes Agents and Opioids?

ADEs from these medications are

- **©** Common
- Clinically significant
- Measurable
- Preventable





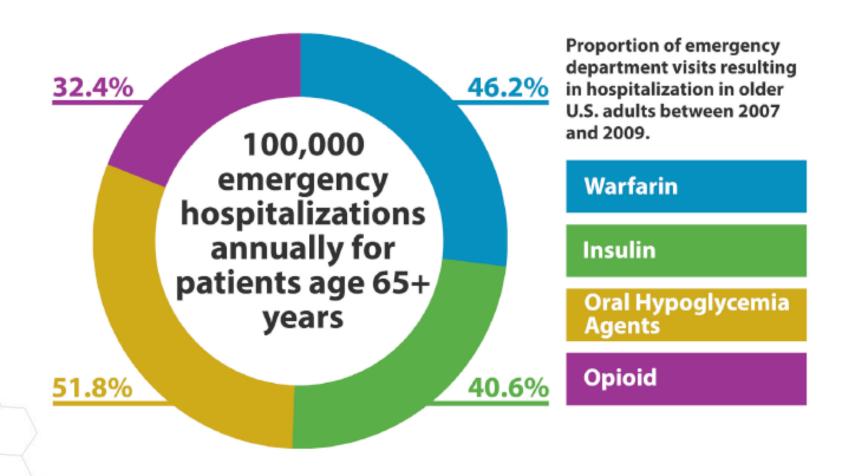
Why Focus on Anticoagulants, Diabetes Agents and Opioids? (cont.)

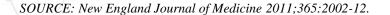
- Anticoagulants—consistently identified as the most common causes of ADEs across healthcare settings
- Diabetes agents—common causes of hypoglycemia across inpatient and outpatient health care settings
- Prescription opioids—related deaths are one of the nation's leading preventable public health problems





Proportion of Emergency Room Visits

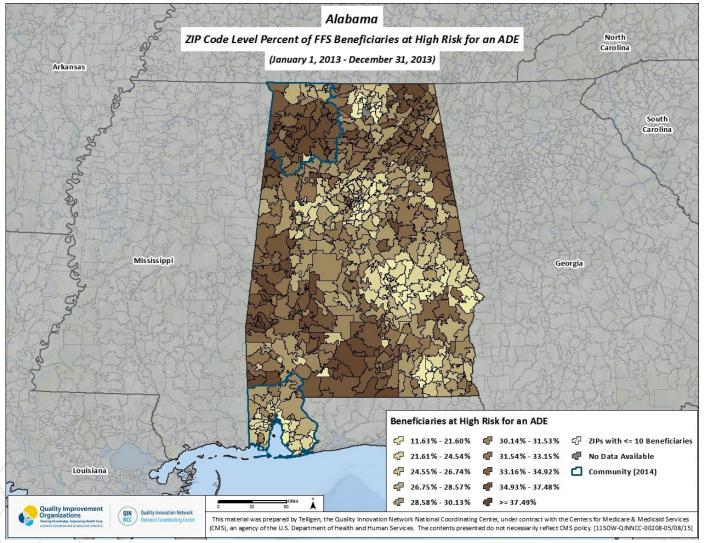








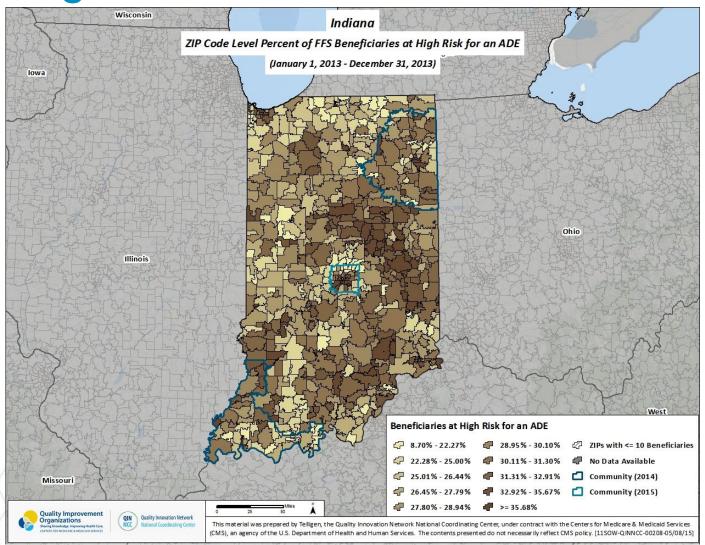
High Risk Beneficiaries: Alabama







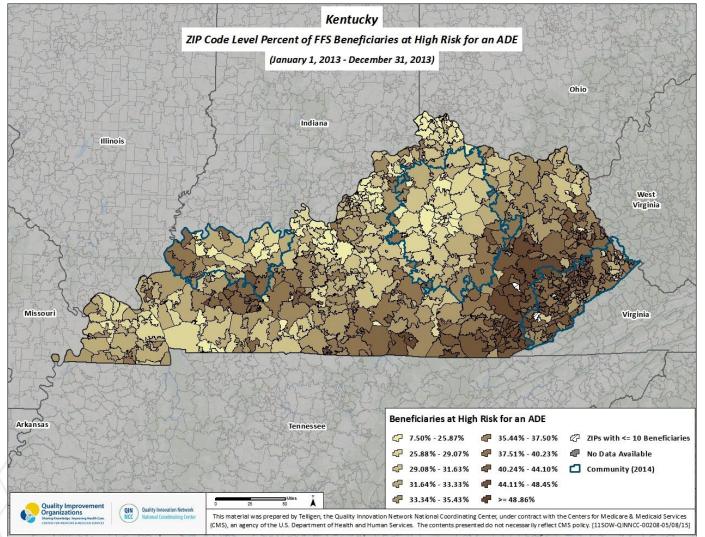
High Risk Beneficiaries: Indiana







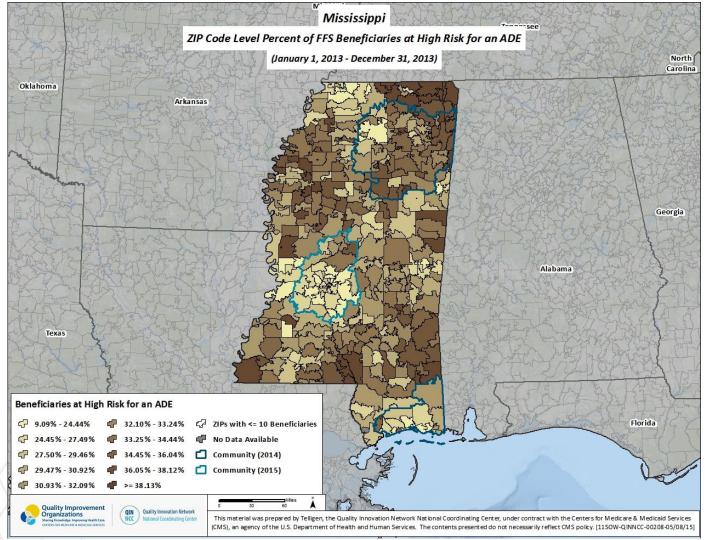
High Risk Beneficiaries: Kentucky







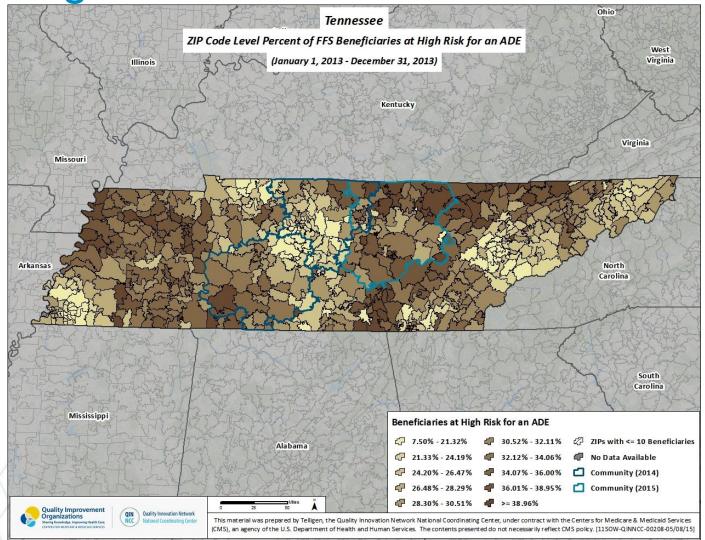
High Risk Beneficiaries: Mississippi







High Risk Beneficiaries: Tennessee







Who Can Participate?

- Pharmacies including but not limited to
 - Retail
 - Long-term care
 - Hospital
 - Ambulatory care clinics
- Schools of pharmacy
- State and national pharmacy organizations

- Mospitals 12
- Home health agencies
- Nursing homes
- Medicare beneficiaries and family/caregivers
- Prescribers
- Healthcare payers
- Advocacy and service organizations





Polling Question

Does your practice site currently track ADEs?

- A. Yes, electronically
- B. Yes, manually (e.g. post event chart review)
- C. Yes, combination or another method
- D. Not sure
- E. No





Starter Kit

Strategies and Interventions: Data Collection

Adverse Drug Event/Potential Adverse Drug Event (ADE/pADE) Data Tracking Form

PLEASE SEE DIRECTIONS AND DRUG LISTS ON THE "INSTRUCTIONS" TAB BELOW.

Setting Name Sample Nu		ursing Home		Date	Jul-15	
Data Collector's Name Jane		ne Doe		Email/phone	jane.doe@gmail.com	
	(Our setting is f	ocusing on pat	ients who take		
X Anticoagula		Х	Antidiabetics	X	Opioids	
Please indicate the number of patients at your setting				Of those listed at left,		
that take at least three total r	100	please indicate the number of patients screened			50	
medication from the categ			for ADEs and pADEs during this reporting	g period.		

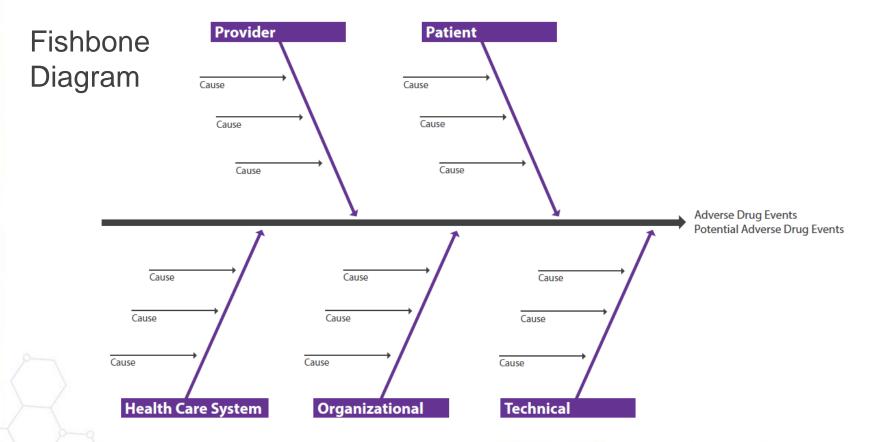
ADEs						
identified during this reporting period						
	Drug associated with ADE (can be any drug the patient is taking)	Type of injury (e.g. GI bleed, hypoglycemia, respiratory depression)	ADE associated with hospital readmission? (Y/N)			
ADE 1	Warfarin	Intracranial hemorrhage	Υ			
ADE 2	Humalog	Hypoglycemia	N			
ADE 3	Morphine	Oversedation	N			
ADE 4	Penicillin	Rash	N			
ADE 5						
ADE 6						
	1					

pADEs identified during this reporting period				
	Drug associated with pADE (can be any drug the patient is taking)			
pADE 1	Glyburide			
pADE 2	Xarelto			
pADE 3	Oxycodone			
pADE 4	Lisinopril			
pADE 5				
pADE 6				





Strategies and Interventions: Quality Improvement Tools



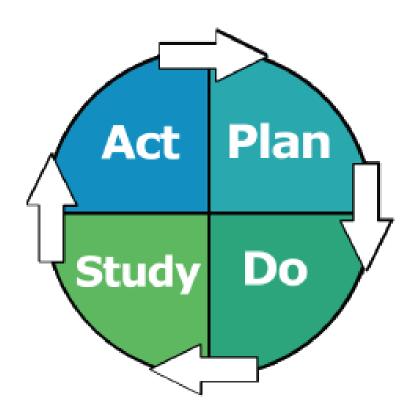






Strategies and Interventions: Quality Improvement Tools (cont.)

Plan-Do-Study-Act (PDSA) cycle







Pharmacist Perspective



Michael W. Napp, R.Ph., CGP, FASCP Consultant Pharmacist Senior Care Pharmaceutical Services Alabama





Pharmacist Perspective



Jennifer Tatum-Cranford, PharmD, Owner, Payless Family Pharmacy, Sparta, Tenn.





Coming Soon: Medication Safety Toolkit

- Evidence-based or proven best practice ADE prevention strategies to reduce and prevent ADEs
- Overall medication safety and specific resources for anticoagulants, diabetic agents and opioids
- Easy application in different care settings
- Easy implementation for rapid adoption and testing
- Best practices for medication reconciliation and MTM applicable to the community
- Measurable and achievable improvement goals





Next Steps

Soin your local care coordination community Find yours at

http://atomalliance.org/interactive-communities-map/

- Talk with your local atom Alliance contact to see how we can support your medication safety efforts
- Join our multi-state advisory board





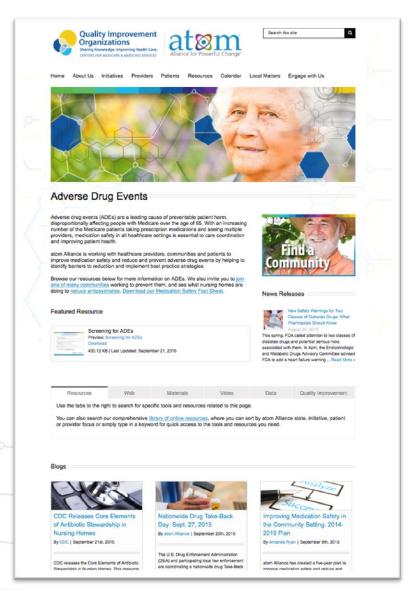
Key Takeaways: Please Share in Chat

- What is one thing you learned today?
- What is one new or different step you can take to improve medication safety?





Learn More



www.atomAlliance/ADEs





Contact Us



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