

July 21, 2022







Today's faculty



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Objectives

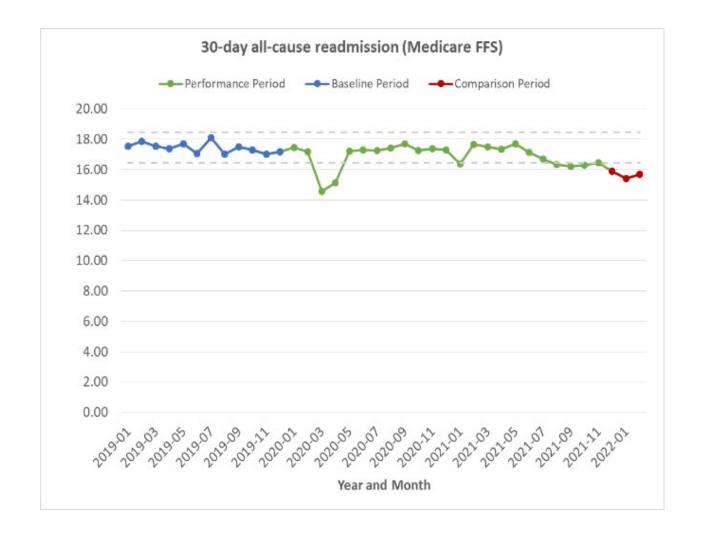
- Identify what the EQIC multiple-admission patient program aims are and why implementing a strategy to address this problem will benefit your facility.
- Identify principles and methodology to develop a multipleadmission patient program.
- Identify tools and resources for evaluation.





EQIC goal

Reduce hospital readmission by 5%





Evidence for a MAP program

Patients who are frequently admitted to **hospitals** are likely to have multiple complex chronic conditions.

They also may have behavioral comorbidities that mediate their health behaviors, all of which results in acute episodes requiring hospitalization.

Complex interactions between patients' physical and mental condition, attitude, values, social situation and issues with care provision for both primary and secondary care are all causes of multiple hospital admissions.

Frequently admitted patients may have some distinguishing characteristics that require novel solutions.

Patients who are frequently admitted to US academic medical centers are likely to have multiple complex chronic conditions and may have behavioral comorbidities that mediate their health behaviors, resulting in acute episodes requiring hospitalization.

This information can be used to identify solutions for preventing repeat hospitalization for this small group of patients who consume a highly disproportionate share of healthcare resources.





EQIC MAP data

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+ EQIC-Wide Results

Table 6. High Utilizer Population	All
# of patients hospitalized 4 or more times in the past year	4,771
# of discharges by patients hospitalized 4 or more times in the past year	29,271
# of readmissions by patients hospitalized 4 or more times in the past year	14,981
% of readmissions by patients hospitalized 4 or more times in the	
past year	21%
Readmission rate of patients hospitalized 4 or more times in the	
past year	51%





The framework of this report was modeled after The Agency for Healthcare Research and Quality Medicaid Readmissions tool. It has been modified and pre-populated with hospital-specific data for informational purposes.



What is a multiple-admission patient?

EQIC defines a MAP as an individual who has four or more admissions in a 12-month period.

Designing and Delivering Whole-Person Transitional Care. Content last reviewed June 2017. Agency for Healthcare Research and Quality, Rockville, MD. https://www.ahrq.gov/patient-safety/settings/hospital/resource/guide/index.html







Multiple-admission Patient Program Framework

STEP 1: Design your MAP program

- · Create an internal multidisciplinary team
- · Identify and invite community-based organizations to collaborate with your team
- Define program goals and measures
- Evaluate and adopt MAP program tools and resources
- Develop staff education for the MAP program

STEP 2: Identify patients that meet MAP program criteria

- · Develop data sources for reports
- · Review and determine eligible patients
- Develop EMR notifications
- Create a plan for healthcare team communication

STEP 3: Assess readmission risk

- Evaluate readmission risk using a standard assessment tool
- · Gather information from patient and care partner
- · Regularly review risk data to identify and mitigate risk trends
- Identify and address any health equity and social determinants of health concerns for the patient

STEP 4: Customize interventions

- · Create an individualized plan for each patient
- · Coordinate a discharge plan with the MAP program team
- · Engage emergency department staff in MAP program
- Ensure follow-up communication with post-discharge provider(s) occurs
- · Provide post-discharge support and follow up



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Process step	Interventions	Notes
	Step 1: Design your MAP program	
Create an internal multidisciplinary team	Assemble a multidisciplinary team, including emergency department and frontline staff, to help build the foundation and infrastructure of the MAP program by supporting a culture of: • patient and care partner engagement; and • community-based organization and hospital coordination aimed at frequently admitted patients and reducing readmissions. Tool: <u>Unit-Based Safety Quality Improvement Toolist</u>	
Identify and invite community-based organizations to collaborate with your team	Determine if your region has an existing transitions of care community collaborative by locating your CitO-CitN. Identify CBOs that are regularly referred to or transferred to on discharge. Use data reports to identify the rehabilitation and skilled nursing facility organizations most frequently referred to or received from. Consider using 211 information services for your community and/or region. Contact organizations in your region,	
	including: • faith-based organizations; • ethnic and refugee services; • YMCAYWCA; • payer(s); and • FGIHCs. Consider a formal invitation in writing or contact through verbal outreach.	
	Continue to expand your CBO list as needs are identified through your MAP program. Tools: • EDIC Transitional Care Community Rissource List • AHRQ Cross-Continuum Collaboration Tool	

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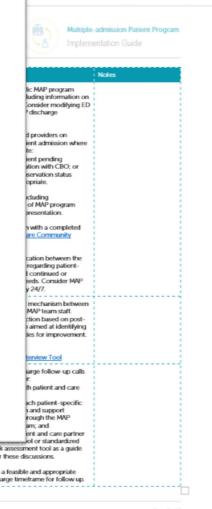




Process step	Interventions	Notes
Define program goals and measures	Establish goals and identify both process and outcome measures. Consider the following: Outcome: • reduce readmission rate by X %; or • reduce MAP admissions by X % Process: • HCHAPS questions 16, 20, 21 and 22	
Evaluate and adopt MAP program tools and resources	Evaluate, adopt or adapt EGIC tools and resources for use as part of your MAP program.	
Develop staff education for the MAP program	Create staff education including: • goals; • staff roles; • who to contact when a MAP presents or is admitted; and • EMR notification trigger. Create worldlows that include identifying MAPs upon presentation to ED or inpatient admission and notifying a member of the MAP program team.	
EQIC id	lentify patients that meet MAP program entifies a MAP as an individual who has four o ospital admissions in a twelve-month period	or more
Develop data sources for reports	Use <u>FOIC MAP Data reports</u> as a guide to help your team create hospital-specific reports aimed at identifying MAPs. Work with your IT team to create data reports identifying MAPs and make any necessary EMR modifications. Tool: AHRO Data Analysis tool	
Review and determine eligible patients	Review the trends and volume of MAPs to determine criteria and specific individualized support. Stratify data by patient-specific characteristics and trends to assist with the development of standardized, coordinated interventions among MAP	

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MAP Program Implementation Guide



Multiple-admission Patient Program

ic MAP program luding information o consider modifying E discharge
d providers on ent admission where te:
ent pending ation with CBO; or servation status opriate.
cluding of MAP program presentation.
n with a completed are Community
cation between the regarding patient- continued or leads. Consider MAP y 24/7. mechanism betwee MAP team staff. clion based on post- aimed at identifying les for improvement.
terview Tool arge follow-up calls r: h patient and care
ach patient-specific and support rough the MAP

sam; and ient and care partner ool or standardized ment tool as a guide

iscussions. le and appropriate post-ascharge umeframe for follow up.





EQIC MAP Program tools and resources

- MAP Program Syllabus
- MAP Program Framework
- EQIC MAP Data reports
- Map Implementation Guide
- Patient and Care Partner Interview Tool
- Circle Back Interview Tool
- Transitional Care Community Resource List
- High-risk Factors For Readmission Patient Tracking Tool
- AHRQ Data Analysis Tool



https://qualityimprovementcollaborative.org/focus_areas/readmissions/tools_resources/

Step 1: Design your program

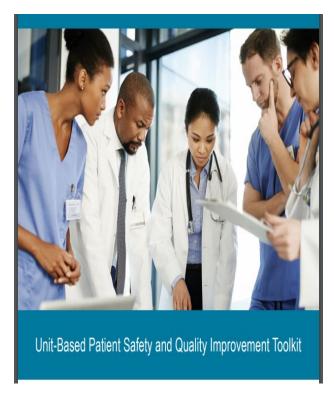
- Create an internal multidisciplinary team
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- Develop staff education for the MAP program







EQIC MAP program design resources



https://qualityimprovementcollaborative.or g/focus_areas/ubs/docs/NYSPFP_Patient Safety_Toolkit.pdf



EQIC EASTERN US QUALITY IMPROVEMENT COLL	Y ABORATIVE			ion Patient Program Community Resource List
What is this tool? A document to collect a list of the ervices to promptly meet the train		service resources available in the commun to help reduce readmissions.	nity. The list is an oppor	tunity for hospitals to identify local
Who should use this tool he MAP program team at your l				
How to use this tool?	act information and establish av	vailable services of local community-based		his information in a comprehensive l
Type of resource	Provider or agency name/phone number	Care services provided Description of service, capacity and geographic area	Service area (towns or ZIP codes)	Agency contact person Name/number/fax/email
Clinical services				
Behavioral health providers				
Behavioral health clinics				
Primary care providers				
Mental health providers				
Psychiatric centers				
Home health agencies				
Community health centers/Federally qualified health centers				
Health homes				
Hospice homes				
Palliative care providers				

https://qualityimprovementcollaborative.org/focus_areas/readmissions/docs/2022-06-13_transitional_care_community_resource_list.docx

Define program goals and measures

Measures for consideration

Outcome

- reduce readmission rate by X %; or
- reduce MAP admissions by X %

Process

HCAHPS questions 16, 20, 21 and 22



HCAHPS

- During this hospital stay, did doctors, nurses or other hospital staff talk with you about whether you would have the help you needed when you left the hospital?
- During this hospital stay, staff took my preferences and those of my family or caregiver into account in deciding what my health care needs would be when I left.
- When I left the hospital, I had a good understanding of the things I was responsible for in managing my health.
- When I left the hospital, I clearly understood the purpose for taking each of my medications.



Polling question:

What are your hospital or hospital system's top readmission dx?

- 1. Pneumonia
- 2. COPD
- 3. CHF
- 4. MI
- 5. Other
- 6. Unsure: need to run reports



Step 2: Identify patients who meet MAP criteria

- Develop data sources for reports
- Review and determine eligible patients
- Develop EMR notifications
- Create a plan for healthcare team communication





Do you know your data?

- EQIC hospital-specific reports
- AHRQ data analysis tool
 - Use this tool to pull your data and patient-specific information



Data report review

Melissa Bauer, DataGen



Report information



EQIC-Wide Multiple-Admission Patients Hospitalwide All-Condition, All-Payer, Readmission Analysis

Report Release Date: June 2022

Report Information

This analysis utilizes All-Payer inpatient claims data for the 12-month period, 01/01/2021 to 12/31/2021. In order to account for the 30 day readmission time interval, discharges from 12/01/2020 to 12/31/2021 were included, in order to capture a full year's worth of readmissions.

Data was pulled on 05/17/2022 Inclusion was limited to adults aged 18+.

Claims without a discharge date and claims with a discharge disposition of 'Expired' or 'Left Against Medical Advice' were excluded from the data.

The framework of this report was modeled after The Agency for Healthcare Research and Quality Medicaid Readmissions tool. It has been modified it and pre-populated with hospital specific data for informational purposes.



Readmission rate table

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+ EQIC-Wide Results

Table 1. Readmission Rate	ф	All
# discharges		654,464
# readmissions		71,556
Readmission rate		10.9%





Days between discharge and readmission

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+

EQIC-Wide Results

Table 2. Days Between Discharge and Readmission	AII
# of readmissions within 0-4 days of discharge	27,344
# of readmissions within 0-10 days of discharge	42,506
# of readmissions between days 0-30 of discharge	71,556
% of readmissions in 0-4 days	38%
% of readmissions in 0-10 days	59%
% of readmissions in 0-30 days	100%





Top discharge DRG leading to the highest # of readmissions

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+ EQIC-Wide Results



Table 3. Top Discharge DRG's Leading to Highest Number of Top 10 Discharge DRG's Resulting in Readmissions Readmission	# Readmissions	# Discharges	DRG Readmissions as % of All Readmissions
871 SEPTICEMIA OR SEVERE SEPSIS WITHOUT MV >96 HOURS	3,908	30,847	5%
291 HEART FAILURE AND SHOCK WITH MCC	2,932	18,330	4%
177 RESPIRATORY INFECTIONS AND INFLAMMATIONS WITH MC	2,886	34,348	4%
885 PSYCHOSES	2,284	20,643	3%
999 UNGROUPABLE	2,201	3,569	3%
897 ALCOHOL, DRUG ABUSE OR DEPENDENCE WITHOUT REHA	1,624	11,866	2%
189 PULMONARY EDEMA AND RESPIRATORY FAILURE	1,144	7,043	2%
872 SEPTICEMIA OR SEVERE SEPSIS WITHOUT MV >96 HOURS	v 943	9,812	1%
190 CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH MCC	894	5,542	1%
392 ESOPHAGITIS, GASTROENTERITIS AND MISCELLANEOUS D	852	9,591	1%
Total, Top 10	19,668		
Total, All Readmissions	71,556		27%



Data by behavioral health conditions/comorbidities

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+

EQIC-Wide Results

Table 4. Behavioral Health Comorbidities	All
# total discharges	654,464
# readmissions	71,556
# of discharges with a comorbid behavioral health diagnosis	376,456
# of readmissions with a comorbid behavioral health diagnosis	45,097
% of discharges with a comorbid behavioral health diagnosis	58%
% of readmissions with a comorbid behavioral health diagnosis	63%





Data by discharge disposition

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+

EQIC-Wide Results

Table 5. Discharge Disposition Details	All
# of discharges to home (without home health)	394,905
# of discharges to home health	113,705
# of discharges to skilled nursing facility (SNF)	82,576
# of discharges to other	63,278
% of discharges discharged to home (without home health)	60%
% of discharges discharged with home health	17%
% of discharges discharged to SNF	13%
% of discharges discharged to other	10%
# of readmissions following discharge to home (without home health)	32,522
# of readmissions following discharge to home health	16,018
# of readmissions following discharge to skilled nursing facility (SNF)	10,931
# of readmissions following discharge to other	12,085
Readmission rate following discharge to home (without home health)	8%
Readmission rate following discharge to home health	14%
Readmission rate following discharge to skilled nursing facility (SNF)	13%
Readmission rate following discharge to other	19%





High-utilizer population: Who are they?

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+ EQIC-Wide Results

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Days between discharge and readmission

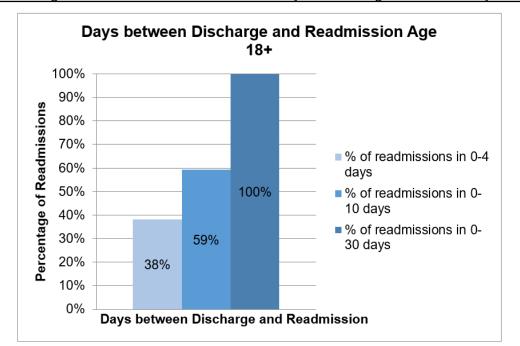
Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+



EQIC-Wide Results

Table 7. Days Between Discharge and Readmission

What percentage of readmissions occurs within 4 days of discharge? Within 10 days?





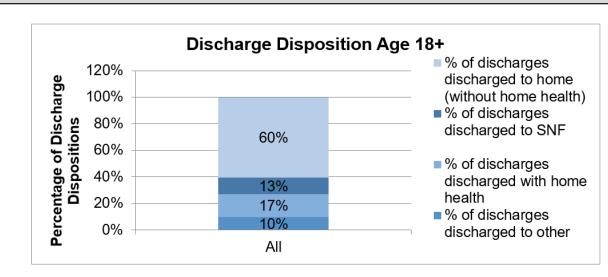
Discharge disposition

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+



EQIC-Wide Results

Table 8. Discharge Disposition





Target populations to consider

Hospitalwide All-Condition, All-Payer, Readmission Analysis Age 18+



EQIC-Wide Results

Table 9. Target Populations To Consider	
What is the hospital's overall readmission rate, and which groups of patients have higher than	
average readmission rates? Which group experiences the most readmissions? Are there any high-	
risk DRG's to consider?	
% of patients with behavioral health comorbidities	63%
Readmission rate among patients discharged to home (without home health)	8%
Readmission rate among patients discharged to SNFs	13%
% of readmissions from high-utilizing patients	21%



MAP data report analysis

Consider additional measures using your own data and the AHRQ Data tool

- Readmission/admission rates by payer
 - Consider dual eligible patients
 - Payer may be good addition to your MAP team depending on supportive services available through payer
- Run by discharge to facility: SNF, rehab, home health, etc.



Develop EHR notification/flag

- Work with IT to develop EHR notification or flag for MAP program patients
- Design communication among healthcare team for identification and presentation of MAPs
 - ED team who do they call/notify?
 - Admitting clinical team how do they notify the MAP team a patient has been admitted?



Next steps: Design and identify

- Identify multidisciplinary team
 - Identify and invite community-based organizations
- Develop reports and analyze your hospital specific data
 - Identify MAPs
 - Evaluate to identify trends and additional CBO support
- Evaluate EQIC tools and resources adapt or adopt
- Design patient-specific MAP team support and communication mechanism
- Educate the healthcare team



MAP program curriculum

Upcoming webinars

August 18: Assess patients at risk for multiple admissions and readmission

September 15: The impact of health disparities and social determinants of health on readmission

October 20: Interventions for the MAP program

November 17: Role of the emergency department - 15 years of ED case

management: Lessons learned and benefits realized

December 15: Capstone



Thank you.

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