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### **Disclosures**

- Dr. Ouslander is a full-time employee of Florida Atlantic University (FAU) and has received support through FAU for research on INTERACT from the National Institutes of Health, the Centers for Medicare & Medicaid Services, The Commonwealth Fund, the Retirement Research Foundation, PointClickCare, Medline Industries, and Think Research.
- Dr. Ouslander serves as a paid advisor to Pathway Health, Think Research, and Curavi.
- Dr. Ouslander and his wife may receive royalties from FAU and Pathway Health for training on and licensing of the INTERACT program.
- Work on funded INTERACT projects is subject to the terms of Conflict of Interest Management plans developed and approved by the FAU Financial Conflict of Interest Committee.





## **Learning Objectives**

- 1. Identify common causes of unnecessary hospitalizations in the geriatric population.
- 2. Describe strategies that can help reduce these unnecessary hospitalizations.





## Why Does This Matter?

- Hospitalizations and ED visits are common and often result in complications in older patients
- Some are avoidable or preventable
- Care can be improved, resulting in fewer complications and reduced cost
- Cost savings to Medicare can be shared with providers to further improve care
- Financial and regulatory incentives are changing







# Changes in Medicare Payment Policies are Incentivizing Fewer Hospitalizations

- CMS is shifting Medicare beneficiaries from the "fee-forservice" system to "value-based" payment models, such as:
  - Value-Based Purchasing
    - Financial penalties for hospital readmissions
  - Medicare Managed Care
  - Bundling of payments for episodes of care
  - Accountable Care Organizations
  - Others







## Why Does This Matter?



Hospitalization



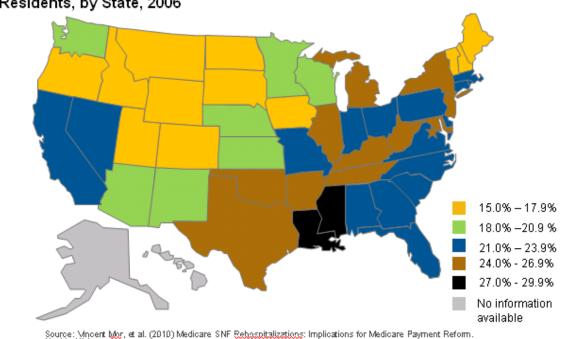
At the beauty salon

- At risk for complications
  - Delirium
  - Polypharmacy
  - Falls
  - Incontinence and catheter use
  - Hospital acquired infections
  - Immobility, de-conditioning, pressure ulcers



## Close to 1 in 5 patients admitted to a SNF are re-admitted to the hospital within 30 days

Figure 3: Frequency of Rehospitalization of Short-Stay Nursing Home Residents, by State, 2006

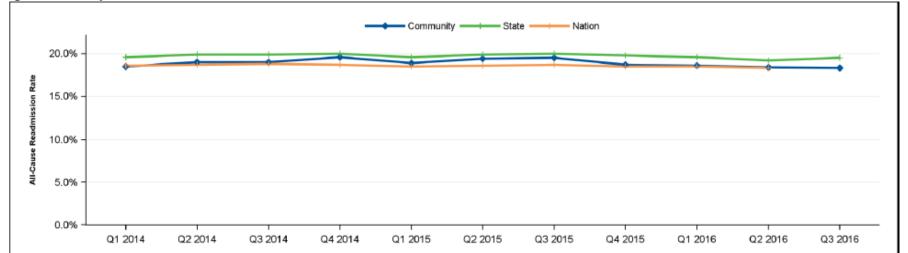










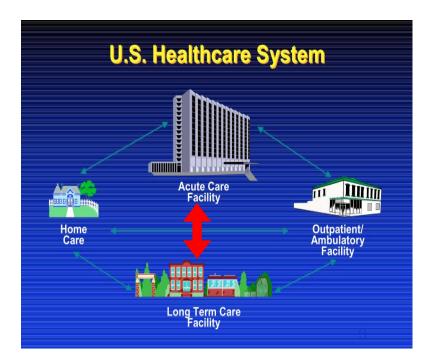






## Some Hospitalizations of Older Patients are Potentially Avoidable

 Several studies suggest that a substantial percent of hospital transfers, admissions, and readmissions are unnecessary and can be prevented





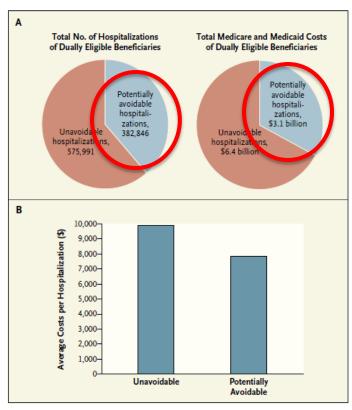






## Reducing Unnecessary Hospitalizations of Nursing Home Residents

Joseph G. Ouslander, M.D., and Robert A. Berenson, M.D.



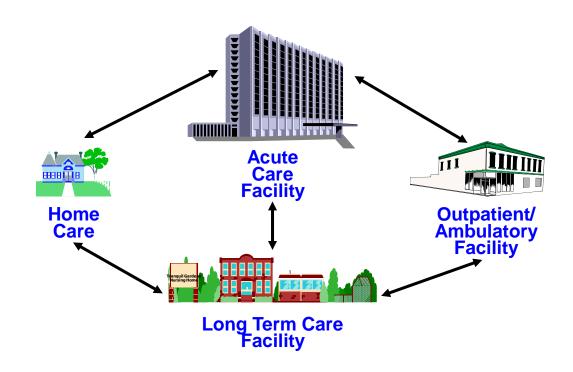
Unavoidable and Potentially Avoidable Hospitalizations of Nursing Home Residents Eligible for Both Medicare and Medicaid, 2005.

Data are based on all hospitalizations of 1,571,920 dually eligible Medicare and Medicaid beneficiaries in the year 2005. Of the total hospitalizations included, 72% were from nursing homes, accounting for 85% of the total costs of avoidable hospitalizations. Data are from the Centers for Medicare and Medicaid Services.





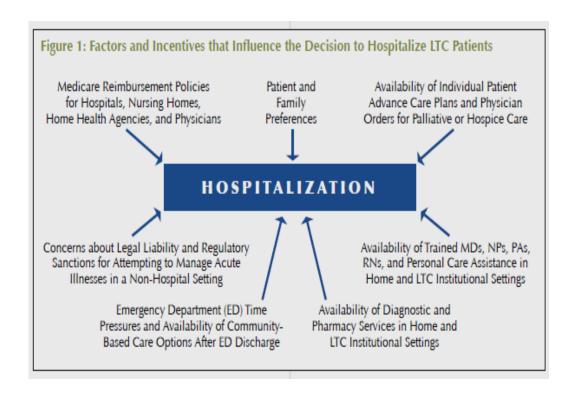
Poor Transitions Between Care Settings Cause Many Errors and Patient Safety Problems, Including Adverse Events, Returns to the ED and Readmissions







## The Causes of Potentially Avoidable Hospitalizations are Multifactorial

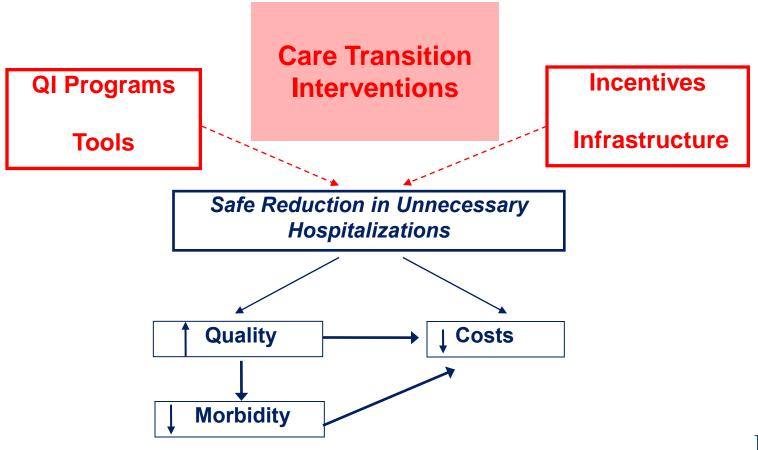


Geriatrics and the Triple Aim: Defining Preventable Hospitalizations in the Long-Term Care Population

Joseph G. Ouslander, MD,\* and Katie Maslow, MSW†



## What is Needed for Successful Reduction of Unnecessary Hospitalizations?







### **Examples of Evidence-Based Care Transitions Interventions**

#### "BOOST"

(Better Outcomes for Older Adults Through Safe Transitions)

http://www.hospitalmedicine.org

#### "Project RED"

(Re-Engineered Discharge)
https://www.bu.edu/fammed/projectred

Enhanced hospital discharge planning

#### "Care Transition Program"

http://www.caretransitions.org

- · Transition coach
- · Trained volunteers
- · Empowered patients and caregivers

#### "POLST" (or "MOLST")

(Physician (or Medical) Orders For life Sustaining Treatment)

http://www.ohsu.edu/polst

· Advance care planning

### "Bridge Model"

http://www.transitionalcare.org/the-bridge-model

 Social Worker coordinating Aging Resource Center Services at hospital discharge

### High Quality Care Transitions for

Older Adults & Caregivers

"Transitional Care Model" http://www.transitionalcare.info/index.html

- APN coordinates care during and after discharge
- · Home, SNF, and clinic visits

# "INTERACT" (Interventions to Reduce Acute Care Transfers)

http://interact.fau.edu

 Communication Tools, Care Paths, Advance Care Planning Tools, and QI tools for nursing homes and SNFs





# The Safe Transitions for At-Risk Patients ("STAR") Quality Improvement Program

## **Program Director**

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## **Program Leadership**

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### Gabriella Engstrom, RN, PhD

**Project Evaluation Coordinator** 

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**Project Clinical Coordinator** 

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CMIO, BRRH

Associate Program Director, FAU IM Residency Program
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Supported by a Patient Safety Grant from the Florida Medical Malpractice Joint Underwriting Association



## Vision for the STAR Program



- Multi-faceted to address complex needs of high risk patients, including both in-hospital and post-acute care
- Interdisciplinary
- A critical resource for inter-professional education on patient safety and quality
  - FAU Medical students and residents
  - Hospital staff
  - Local post-acute care providers





## **Vision for the STAR Program**



- Approved by BRRH and FAU as a QI program
- Provides support for BRRHs evolving programs in bundled payments, ACOs, and other payment reform initiatives
- A QI patient safety database on high risk patients will be developed that is integrated with BRRHs QI initiatives and new EMR





## **STAR Patients**



### Criteria for High Risk for Complications, Readmissions and ED Visits

- 1. Readmitted with in 30 days
- 2. Polypharmacy
- 3. Cognitive Impairment (delirium, dementia)
- 4. Diagnosis:
  - Fall
  - Syncope or Near-Syncope
  - Shortness of Breath
  - Volume Depletion or AKI
  - Generalized Weakness
  - Failure to Thrive





# The STAR Quality Improvement Program

### **Pre-Intervention Period**

**July 2015 - June 2016** 

**Intervention Period** 

**July 2016 - June 2017** 

NTERVENTION

Geriatric Evaluation and Care Transition
Recommendations

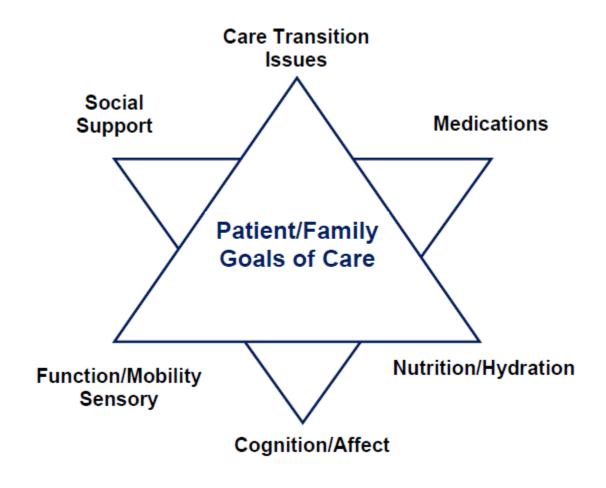
Pre-Discharge
Nursing Assessment
and Education

Post Discharge
Nursing Visits with follow-up on
Geriatric and Care Transition
Recommendations

INTERACT Implementation in Post-Acute Organizations



## **STAR Program Recommendations**





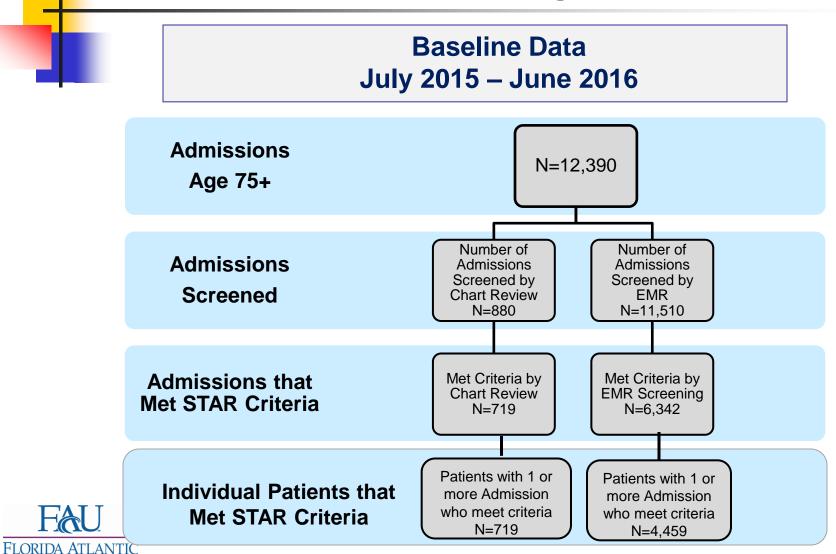


## **STAR Program Care Transitions Recommendations**

Delirium	<ul> <li>Consider following diagnostic studies to identify underlying cause(s)</li> <li>Consider stopping or tapering the following medications, which can contribute to delirium</li> <li>Exclude alcohol or benzodiazepine withdrawal as a cause/contributing factor</li> <li>Use principles of the Hospital Elder Life Program to manage delirium non-pharmacologically (<a href="http://www.hospitalelderlifeprogram.org/">http://www.hospitalelderlifeprogram.org/</a>)</li> <li>Avoid physical restraints unless patient is a danger to themselves or others</li> <li>Use pharmacologic therapy for agitation/aggression only when the patient is a danger to themselves or others</li> <li>Low dose prn lorazepam (0.5 – 1 mg) for acute, short term sedation and regularizing sleep pattern</li> <li>Low dose routine (bid) haloperidol or risperidone (0.5 – 1 mg) for less sedating option to manage psychosis, agitation, aggression</li> </ul>
Fall risk, gait and balance problems	<ul> <li>Ongoing physical therapy for strengthening and balance</li> <li>Tai Chi (if available and interested)</li> <li>Consider discontinuing the following medications that can contribute to difficulty walking and or falls</li> <li>Monitor blood pressure and orthostatic vital signs</li> <li>Change footwear to a type that is supportive with a low heel</li> <li>Perform a home safety assessment</li> <li>Use furniture/toilet with elevated seating and arm rests for assistance in elevation from sit to stand</li> <li>Obtain and emergency response system</li> <li>Consider treatment and/or prevention for osteoporosis</li> <li>Consider hip protectors due to high risk of fall and fracture</li> </ul>

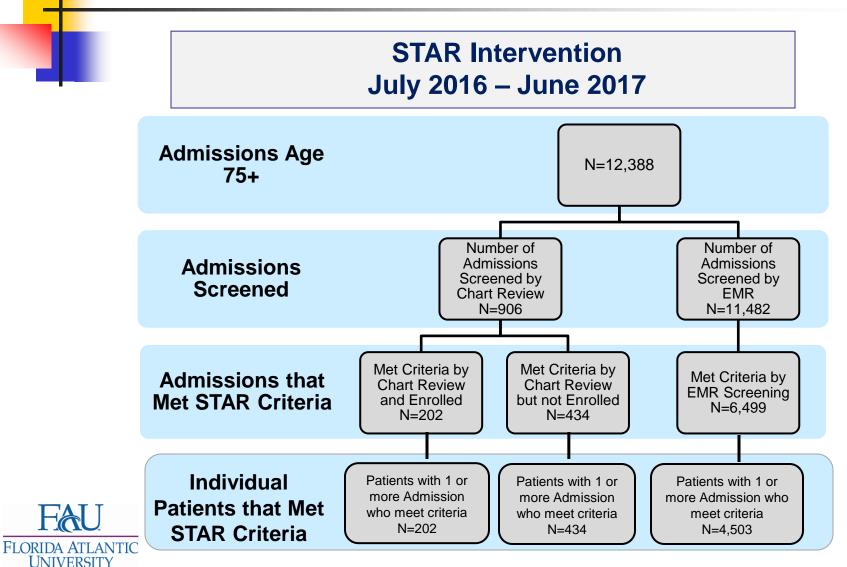






University







## The STAR Program

## **Data Analyses**

**Pre-Intervention Period** 

**July 2015 - June 2016** 

**Intervention Period** 

**July 2016 - June 2017** 

Patients who met criteria by record review and database

**Pre-Intervention Comparison Group**  Patients who met criteria by record review Not enrolled

> + Patients who met criteria by database

Concurrent **Comparison Group** 

Patients who met criteria by record review

**Enrolled** 

Intervention Group



## The STAR Program

# **STAR Intervention July 2016 – June 2017**

		Met criteria by Record Review and Enrolled (teaching services)	Met criteria by Record Review but not Enrolled (teaching services)	Patients with 1 or more Admission who met criteria by EMR Screening (non-teaching services)
		N=202	N=434	N=4,503
Age		86 (6.1)	86 (6.1)	86 (6.2)
	Female	119 (59)	228 (52)	2,356 (52)
Gender	Male	82 (41)	202 (46)	2,074 (46)
	Not Hispanic or Latino	179 (89)	398 (92)	4,160 (92)
Ethnicity	Hispanic or Latino	14 (6.9)	22 (5.1)	155 (3.4)
	Declined/Missing	9 (4.5)	14 (4.2)	189 (4.2)
	Medicare fee-for-service	162 (80)	336 (77)	3,588 (80)
Insurance	Other	40 (20)	94 (22)	842 (19)



## The STAR Program

# **STAR Intervention July 2016 – June 2017**

Patient Characteristics		All Admissions		but not Enrolled (teaching services)	Met criteria by EMR Screening (non-teaching services)
		N=12,388	N=202	N=434	N=6,499
DNR at discharge	Full Code	10,246 (83)	152 (75)	334 (76)	5,178 (80)
	DNR	1,619 (13)	48 (24)	94 (21)	1,199 (18)
Davidna Madiaatiana	Admission (mean sd)	5.3 (3.9)	5.7 (3.9)	5.9 (3.9)	5.7 (4.1)
Routine Medications	Discharge (mean sd)	9.5 (5.0)	9.2 (5.6)	9.7 (4.9)	10.1 (5.2)
Fall Risk	Risk score on admission (mean sd) (Scale 0-125)	17 (17)	18 (18)	17 (17)	16 (17)
Died in Hospital		240 (1.9)		7 (1.6)	191 (2.9)





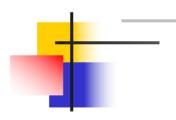
Frequency of ICD 10 Codes (N = 38,343)

Diagnosis Group	N	%
Cardiovascular	33,764	88%
Endocrine/metabolic	20,943	55%
Renal / Fluids and Electrolytes / Acid-Base	15,029	39%
Neurological Disorders	13,543	35%
Digestive / Nutrition	12,851	34%
Cognitive and Mood Disorders	12,667	33%
Blood Disorders	12,588	33%
Genitourinary	10,557	28%

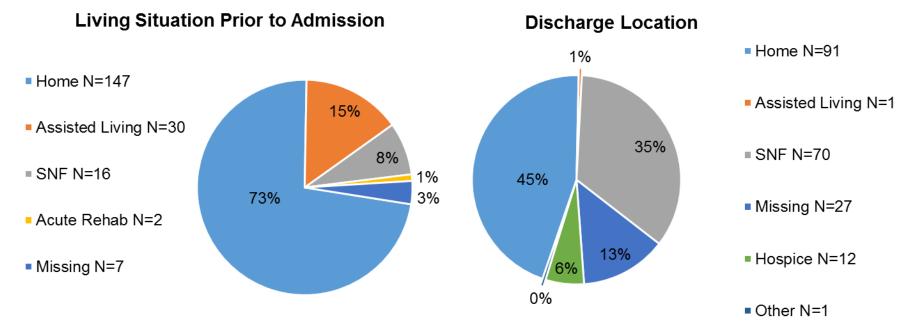
Diagnosis Group	N	%
Respiratory	8,753	23%
Musculoskeletal	8,128	21%
Trauma/Poisoning	7,240	19%
Infectious	5,023	13%
Malignancy	4,335	11%
Skin	2,198	6%
HEENT	1,947	5%
Drug Reactions / Substance Abuse	1,382	4%
Substance Abuse Disorders	561	1%
Other Diagnoses	7,635	20%



## The STAR Program



## Met Criteria by Chart Review and Enrolled in STAR N=202







STAR Patient Outcomes other than Completed Intervention or Readmitted during Post Discharge Visits

Outcome	<b>N</b> (% of 202)
Unable to reach patient after 3 calls*	16 (8)
Refused post discharge visits*	22 (11)
Admitted to inpatient Hospice within 30 days	13 (6)
Died within 30 days	8 (4)
Moved out of area during post discharge period	4 (2)
Total	63 (31)

<sup>\*</sup>These 38 patients are excluded from readmission rate calculations because they did not participate in the post-discharge intervention







## The STAR Program

## STAR Geriatric and Care Transitions Recommendations N = 202

Recommendation by Category	Recommendations	Recommendations Followed N (%)
Medications Issues	192	122 (64)
Functional, Mobility, and Sensory Issues	190	133 (70)
Geriatric Conditions	184	133 (72)
Cognition and Affect	141	86 (61)
Nutrition and Hydration Issues	105	90 (86)
Social Support and Care Transition Issues	74	58 (78)
Goals of Care	56	43 (77)
TOTAL	942	665 (71%)





## The STAR Program

## STAR Intervention Outcomes July 2016 – June 2017

Outcomes (unadjusted)	All Admissions	Record Review and enrolled (teaching services)	but not enrolled (teaching services)	Met criteria by EMR Screening (non-teaching services)
	N=12,388	N=202	N=434	N=6,499
At least one readmission at BRRH within 30 days of discharge	1,719 <b>(14%)</b>	36 <b>(18%)</b>	69 <b>(16%)</b>	1,097 <b>(17%)</b>
At least one ED visit w/o admission at BRRH within 30 days of discharge	772 <b>(6.2%)</b>	19 <b>(9.4%)</b>	33 <b>(7.6%)</b>	455 <b>(7.0%)</b>



## The STAR Program

# Preventability Ratings of 30-Day Readmissions of STAR Intervention Patients (N = 36)

Discharge Location	Preventable	Not Preventable
Home/ALF	6	13
SNF	8	8
Acute Rehab Hospital	0	1
Total	14 (39%)	22 (61%)





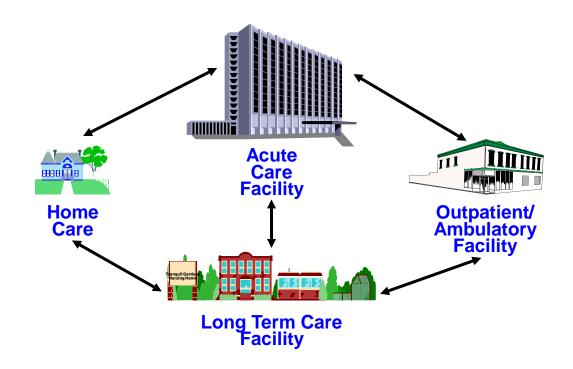
## **The STAR Program**

## **Examples of 30-Day Readmissions Rated as Preventable vs. Not Preventable**

Readmissions Rated as Preventable	<ul> <li>81 year old woman discharged home after COPD exacerbation. Non-adherent to use of walker. Readmitted with hip fracture. Probably should have been discharged to a SNF for inpatient rehab.</li> </ul>
	80 year old man discharged home after episode of CHF. Readmitted with near syncope related to OH and volume depletion. Needed more careful management of diuretics, but missed PCP visit.
	90 year old woman discharged to a SNF after COPD exacerbation; oxygen dependent. Readmitted with COPD exacerbation and pneumonia. Also had multiple hospitalizations at other hospitals. Palliative care consultation ordered, but surrogate refused hospice care.
Readmissions Rated as Not Preventable	90 year old female discharged home after pacemaker placement for bradycardia related to atrial fib. Readmitted one day later with symptoms of an acute stroke.
	96 year old discharged to an ALF after a syncopal episode. Readmitted 10 days later with diverticulitis.
	<ul> <li>95 year old man with multiple admissions for CHF, atrial fib, and pleural effusions. Refused follow-up home care.</li> </ul>
	<ul> <li>92 year old female with dementia and multiple admissions for aspiration pneumonia. Family refused to consider advance directives and care limiting orders.</li> </ul>



# "Post-Acute Care Transition Quality Coalition" (A Precursor to a "Narrow Network")









Is a quality improvement program designed to improve the care of older people with acute changes in condition in nursing homes, assisted living facilities, and home health care

http://www.interact-pathway.com





## **INTERACT Team**

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Florida Atlantic University
California Association of LTC Medicine
Collaborative Healthcare Strategies
Colorado Foundation for Medical Care
Georgia Medical Care Foundation
Vanderbilt University
University of Minnesota



In collaboration with many participating LTC organizations, professionals and facilities





http://www.interactpathway.com



#### Interventions to Reduce Acute Care Transfers

Home ♦ About INTERACT ♦ INTERACT Tools ♦ Educational Resources ♦ Links to Other Resources ♦ Project Team ♦ Contact Us

#### What is INTERACT?

INTERACT (Interventions to Reduce Acute Care Transfers) is a quality improvement program that focuses on the management of acute change in resident condition. It includes clinical and educational tools and strategies for use in every day practice in long-term care facilities.





#### What is the purpose of INTERACT?

INTERACT is a quality improvement program designed to improve the early identification, assessment, documentation, and communication about changes in the status of residents in skilled nursing facilities. The goal of INTERACT is to improve care and reduce the frequency of potentially avoidable transfers to the acute hospital. Such transfers can result in numerous complications of hospitalization, and billions of dollars in unnecessary health care expenditures

#### Did you know...

- One in 5 Medicare patients admitted to skilled nursing facilities from hospitals is readmitted to the hospital within 30 days?
- Up to 2/3 of hospital transfers are rated as potentially avoidable by expert long-term care health professionals?

#### Announcements

- Hospitalization Rate Tracking Tool has been updated as of March 6, 2017 - please use the version dated March 6 2017 - thanks to users for detecting error messages which have been corrected
- 2017 INTERACT Hospitalization Tracking Tool and Bridging Instructions now available.
- NEW FAU signs an agreement with Pathway Health for INTERACT Training and Licensing
- NEW Decision Guide Available: Go To The Hospital or Stay Here?
- NEW STOP and Watch Tools now available in Creole

#### Publications Related to INTERACT

- NEW INTERACT Compatible Clinician Order Sets
- NEW Potentially Avoidable ED Visits
- NEW Root Cause Analyses of SNF to Hospital Transfers



### **INTERACT Strategies**

- Prevent conditions from becoming severe enough to require
  hospitalization through early identification and evaluation of
  changes in resident condition
- 2. Manage some conditions without transfer when this is feasible and safe
- 3. Improve advance care planning and the use of palliative care plans when appropriate as an alternative to hospitalization for some residents
- 4. Improve communication and documentation within LTC facilities and programs, and between LTC and acute care
- 5. Integrate into ongoing QI initiatives
- 6. Combine INTERACT with other care transitions interventions
- 7. Embed in Health Information Technology across care settings



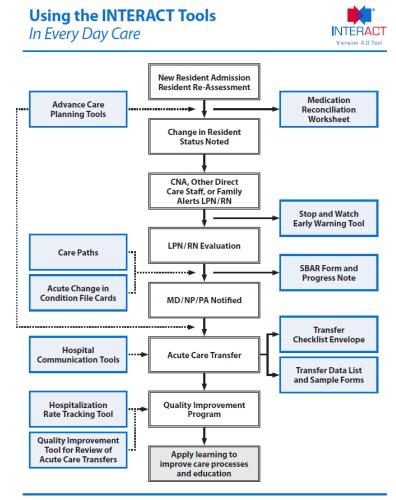


**Quality Improvement Tools** 

**Communication Tools** 

**Decision Support Tools** 

**Advance Care Planning Tools** 







### **Root-Cause Analyses of Transfers**

### **Quality Improvement Tool**





The INTERACT QI Tool is designed to help your team analyze hospital transfers and identify opportunities to reduce transfers that might be preventable. Complete this tool for each or a representative sample of hospital transfers in order to conduct a root cause analysis and identify common reasons for transfers. Examining trends in these data with the INTERACT QI Summary Tool can help you focus educational and care process improvement activities.

Patient				Age
Date of most recent admission to	the facility	//		
Primary goal of admission	☐ Post-acute care	□ Long-stay	□ Other	





### **Quality Improvement Tool**

For Review of Acute Care Transfers

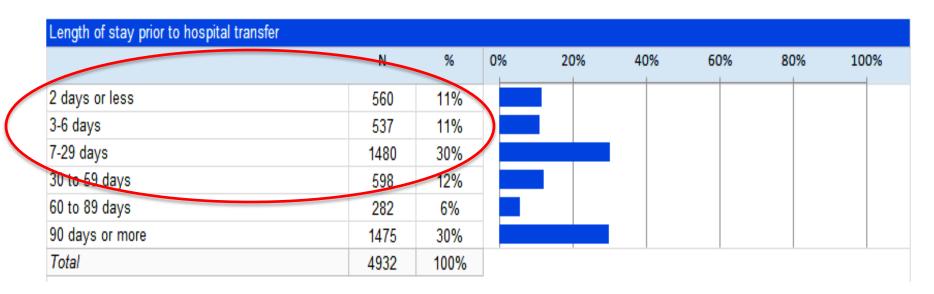


SECTION 5: Identify Opportunities for Improvement
a. In retrospect, does your team think this transfer might have been prevented?
If yes, check one or more that apply:
<ul> <li>□ The new sign, symptom, or other change might have been detected earlier</li> <li>□ Changes in the resident's condition might have been communicated better among facility staff, with physician / NP/PA, or other health care providers</li> <li>□ The condition might have been managed safely in the facility with available resources</li> <li>□ Resources were not available to manage the change in condition safely or effectively despite staff willing to manage in the facility</li> </ul>
(check all that apply)  ☐ On-site primary care clinician ☐ Staffing ☐ Lab or other diagnostic tests ☐ Pharmacy services ☐ Other (describe)
☐ Resident and family preferences for hospitalization might have been discussed earlier ☐ Advance directives and/or palliative or hospice care might have been put in place earlier ☐ Discharged from the hospital too soon in unstable condition ☐ Other (describe)
a. In retrospect, does your team think this resident might have been transfered sooner? ☐ No ☐ Yes (if yes, describe)
a. After review of how this change in condition was evaluated and managed, has your team identified any opportunities for improvement?  No Yes (describe specific changes your team can make in your care processes and related education as a result of this review)





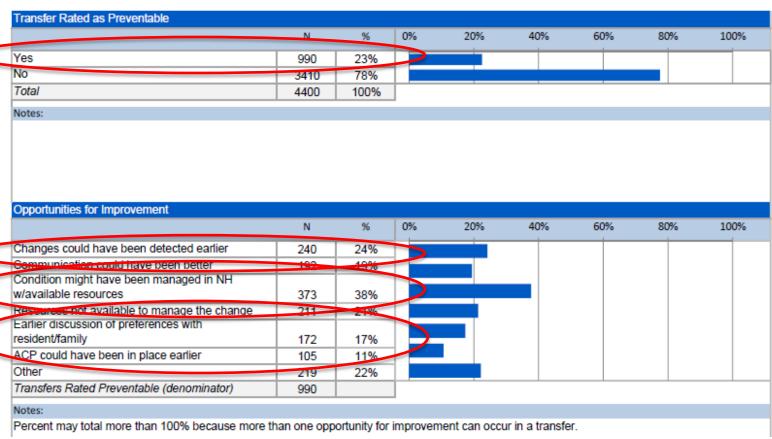
### **Days Since Admission to the SNF**



Ouslander, JG, Naharci, I, Engstrom, G, et al: J Am Med Dir Assn 2016; 17:256-262.



### **Opportunities for Improvement**







### Hospital - SNF Collaborative Root-Cause Analyses of Readmissions

Rating by SNF Staff using INTERACT QI Tool		Rating by Hospital Physicians				
		Preventable?				
		Yes	No	Total		
Preventable?	Yes	11	9	20 <b>(13%)</b>		
	No	36	98	134 <b>(87%)</b>		
	Total	47 <b>(31%)</b>	107 <b>(69%)</b>	154		

Agreement: 109/154 = 71%

**Disagreement: 45/154 = 29%** 





### Early Identification and Communication of Changes in Condition

### **Stop and Watch Early Warning Tool**

Reported to

Nurse Response

Nurse's Name



If you have identified a change while caring for or observing a resident, please <u>circle</u> the change and notify a nurse. Either give the nurse a copy of this tool or review it with her/him as soon as you can.

nurse a copy of this tool or review it with her/him as soon as you can. Seems different than usual Talks or communicates less Overall needs more help Pain – new or worsening; Participated less in activities Ate less No bowel movement in 3 days; or diarrhea Drank less Weight change Agitated or nervous more than usual Tired, weak, confused, or drowsy Change in skin color or condition Help with walking, transferring, toileting more than usual ☐ Check here if no change noted while monitoring high risk patient Patient / Resident Your Name



Date and Time (am/pm)

Date and Time (am/pm)

### Licensed Nurse Evaluation and Communication of Changes in Condition to Clinician

### **SBAR Communication Form**

and Progress Note for RN/LPN



#### Before Calling the Physician / NP / PA / other Healthcare Professional:

- ☐ **Evaluate the Resident:** Complete relevant aspects of the SBAR form below
- ☐ Check Vital Signs: BP, pulse, and/or apical heart rate, temperature, respiratory rate, O₂ saturation and finger stick glucose for diabetics
- ☐ **Review Record:** Recent progress notes, labs, medications, other orders
- Review an INTERACT Care Path or Acute Change in Condition File Card, if indicated
- ☐ Have Relevant Information Available when Reporting

(i.e. medical record, vital signs, advance directives such as DNR and other care limiting orders, allergies, medication list)



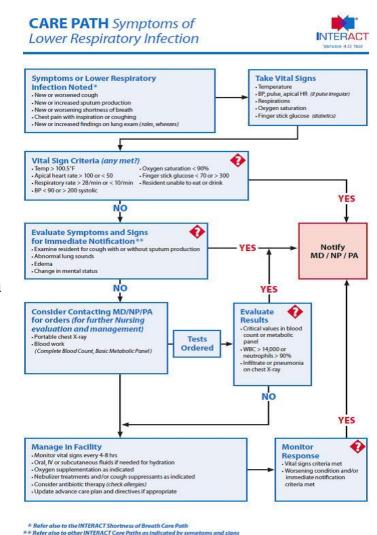




### **Evidence and Expert-Recommended Decision Support**

### **INTERACT Care Paths**

- Acute Mental Status Change
- Change in Behavior: New or Worsening Behavioral Symptoms
- Dehydration
- Fall
- Fever
- GI Symptoms nausea, vomiting, diarrhea
- Shortness of Breath
- Symptoms of CHF
- Symptoms of Lower Respiratory Illness
- Symptoms of UTI





**Acute Care Transfer** 

### Information Transfer to the Hospital

Thank you.

This Acute Care Transfer

Document Checklist can be
printed or taped onto an envelope,
and identifies documents
transferred with the patient

Document Checklist	INTERACT Varsion 3.0 Tool
Resident Name	
Facility Name Tel	
Copies of Documents Sent with Resident (check all that apply)	
Documents Recommended to Accompany Resident	
Resident Transfer Form	
Face Sheet	
Current Medication List or Current MAR	
SBAR and/or other Change in Condition Progress Note (if completed	D
Advance Directives (Durable Power of Attorney for Health Care, Living	Will)
Advance Care Orders (POLST, MOLST, POST, others)	
Send These Documents if indicated:	
Most Recent History and Physical	
Recent Hospital Discharge Summary	
Recent MD/NP/PA and Specialist Orders	
Flow Sheets (e.g. diabetic, wound care)	
Relevant Lab Results (from the last 1-3 months)	
Relevant X-Rays and other Diagnostic Test Results	
Nursing Home Capabilities Checklist (if not already at hospital)	
Emergency Department:	
Please ensure that these documents are forwarded	
to the hospital unit if this resident is admitted.	





# The SNF to Hospital Transfer Form has:

- Information that ED physicians and nurses identified as essential to make decisions about the resident
- Consistent and clear clinical terms

#### Nursing Home to Hospital Transfer Form



Resident Name (last, first, middle initia	0		Sent	To (name)	of hospital)		
Language: □ English □ Other Resident is: □ SNF/rehab □ Long-term			term Date	Date of transfer//			
Date Admitted (most recent)/	/ DOB	//	Sent	From (na	me of nursing hom	e)	Unit
Primary diagnosis(es) for admission							
			Who	to Call at	t the Nursina H	ome to Get Q	uestions Answered
Contact Person							
					)		
Relationship (check all that apply)		=	(,				
☐ Relative ☐ Health care proxy	☐ Guardian	□ Other	<u> </u>				
Tel ()				-	Clinician in Nu	rsing Home	□MD □NP □PA
Notified of transfer? ☐ Yes	□ No						
Aware of clinical situation?	□ No		Tel (		)		
Code Status	□ DNR	□ DNI	□ DNH		☐ Comfort Care 0	Only	□ Uncertain
(							
Key Clinical Information							
Reason(s) for transfer							
is the primary reason for transfer for diag				Tests:			
Relevant diagnoses CHF C		□ DM □ Ca (				ther	
Vital Signs BP	HR	RR		emp			_TIme taken (am/pm)
Most recent pain level						location:	
Most recent pain med				Date given_	/	/	Time (am/pm)
Usual Mental Status:		Usual Function	onal Status:		Additional C	linical Inform	nation:
			dependently				Ition Note included
☐ Alert, disoriented, but can follow simple instructions			ith assistive device	, I		_	
☐ Alert, disoriented, but cannot follow sir		nly with human assi					
□ Not Alert		□ Not ambulate	,				(Ifknown)//
Discount		D Not allibulate	or y		Date or last teta	rius vaccination	(II KILOWII)
Devices and Treatments			Isolation Prec			Allergies	
□ O2 atL/mln by □ Nasal canu	la □ Mask (□ Chroni	ic 🗆 New)	☐ MRSA	□V	/RE		
□ Nebulizer therapy; (□ Chronic	□ New)		Site				
☐ CPAP ☐ BIPAP ☐ Pacemaker	DIV DPICCIII	ne	☐ C.difficile		lorovirus		
☐ Bladder (Foley) Catheter (☐ Chronic	□ New) □ Interna		☐ Respiratory vir	us or flu			
☐ Enteral Feeding ☐ TPN	Other	J [	Other				
Risk Alerts						Personal	Belongings Sent with Resident
☐ Anticoagulation ☐ Falls	☐ Pressure ulcer(s	a Asp	Iration		Selzures	□ Eyeglasse	
☐ Harm to self or others	□ Restraints		ited/non-weight b	earing: (□	Left 🗆 Right)		ppllance DJeweiry
☐ May attempt to exit		cautions	_	2			
Other							
Nursing Home Would be able to A							al Transfer Information
□ ER determines diagnoses, and treatme	nt can be done in NH	I □ VS stabiliz	ed and follow up p	ian can be o	done in NH	on a Seco	-
Other						☐ Included	□ Will be sent later
Form Completed By (name/title)					Signature		
Report Called in By (name/title)							
Report Called in To (name/title)					Date /	/	Time (am/pm)



### **Information Transfer** From the Hospital

The Hospital to Post-Acute Care Data List has recommended contents for transfer forms for incorporation into standard forms and electronic sharing of data

#### **Hospital to Post-Acute Care Data List**



This list is intended to provide guidance on key data elements critical for safe and effective care at the time of transition of a patient out of the hospital to a post-acute care setting. It is not intended to be comprehensive. The INTERACT Hospital Post-Acute Care Transfer Form illustrates an example of how these data can be formatted so that the data are readily accessible for receiving clinicians.

#### Contact Information

☐ Patient name

□DOB

□ Language □ Race/Ethnicity

□Family/Caregiver/Proxy

contact name

□ Contact number

□ Family/Caregiver/Proxy contact name (if different)

□ Contact number

#### **Code Status** □ Full Code

□ DNR (Do Not Resuscitate)

□DNI (Do Not Intubate)

□ DNH (Do Not Hospitalize) □ No artificial feeding

□Comfort Care

□Hospice □ Other

Goals of care discussed with patient

□ Yes □No

Patient capable of making decisions

□ Yes □ Requires proxy

#### Transferring Information

☐ Hospital name

□ Discharging RN

□ Contact number

□ Discharging MD □ Contact number

#### Post-Acute Care Information

☐ Hospital name

□Contact number

■Verbal report given □ Contact name

#### **Hospital Physician Care** Team Information

☐ Primary Care Physician

□ Contact number □Specialist

#### ☐ Contact number

#### **Key Clinical Information** Vital Signs

□ Time taken

□ Pain rating

□ Pain site

□ Temperature □BP

□HR

□ RR

□ O2 Saturation ■ Weight

#### Mental Status

□ Alert

☐ Disoriented, follows commands

□ Disoriented cannot follow

commands ■ Not alert

#### **High Risk Conditions**

□Fall risk

☐ Heart failure □ New diagnosis

□ Exacerbation this admission

□ Date of last echo

□ Dry weight

□Anticoagulation Reason

☐ Goal of International

Normalization Ratio

□ Course of treatment

□ Indication(s)

□On Antibiotics

□ Indication(s)

□ Diabetic

■ Most recent glucose

#### **Procedures and Key Findings**

□List procedures □ Surgeries

□ Imaging

☐ Key findings

#### Medications/Allergies

■ Medication list attached

☐ Hard copy for controlled

substances

□Allergies

□ Pain medications

□ Dose

□ Last given

#### **Nursing Care**

#### Physical and Sensory Function

Ambulation

□Independent

■With assistance

□ With assistive device

■ Not ambulatory

Weight bearing

□ Full

☐ Partial (L/R)

□ None (L/R)

Transfer

□Self

☐ 1-Person assist

□ 2-Person assist

Sensory Function □ Sight

□Hearing Devices

□Wheelchair

□ Walker

□ Cane

□ Crutches □ Prosthesis

□ Glasses

□ Contacts

□ Dentures

☐ Hearing aid



### Information Transfer <u>from</u> the Hospital

 The Hospital to Post-Acute Care Transfer
 Form highlights Critical
 Time Sensitive
 Information

L. Critical Transitional Care Information: Pending Tests and Follow-Up
Summarize high-priority care needs for next 24-48 hrs (including essential medications, pain control, tests needed, follow-up):
Pending Lab and Test Results:
Recommended Follow-Up Tests, Procedures, Appointments:

 But, there is no substitute for a warm handoff





# **Advance Care Planning Tools**



#### **Using the INTERACT Tools** In Every Day Care New Resident Admission **Resident Re-Assessment** Medication **Advance Care** Reconciliation **Planning Tools** Worksheet **Change in Resident** Status Noted CNA, Other Direct Care Staff, or Family Alerts LPN/RN Stop and Watch **Early Warning Tool** LPN/RN Evaluation Care Paths SBAR Form and **Progress Note** Acute Change in **Condition File Cards** MD/NP/PA Notified Transfer **Checklist Envelope** Hospital **Acute Care Transfer Communication Tools Transfer Data List** and Sample Forms Hospitalization Quality Improvement Rate Tracking Tool Program **Quality Improvement** Tool for Review of Apply learning to Acute Care Transfers improve care processes and education

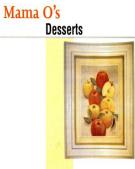




### **ACP Gone Wrong – A Case Example**

- 93 year old living with son and daughter-in-law
- Progressive multi-infarct dementia
- Former LPN, who does not want CPR or other intensive end of life care
  - Had "Yellow DNR form"
- Fell and fractured hip DNR form lost on the way to the hospital
- Another Yellow form completed in the hospital – lost on the way to the SNF





Helen Ouslander "Mama O"





 Includes key aspects of discussion, often missing during care transitions

### Advance Care Planning Tracking Form



Resident Name			
advance care planning with appr admission to the facility, at times	of c	ealth care decision makers should be pliate staff members and medical provious thange in condition, and periodically fent these discussions. (Several other IN on)	ders within the first few days of or routine updating of care plans.
This documentation is to  ☐ Create a new Advance Care Plan		Review existing Advance Care Plan	
Reason for this discussion/review  ☐ Admission ☐ Readmission		☐ Change in condition alert ☐ Resident or Family Request	□ Other
This discussion was held with ☐ Resident		☐ Resident's surrogate	Name
Was an Advance Care Plan created o	r ch	ange made, as a result of this discussion?	
☐ No ☐ Resident declined conversation ☐ Surrogate declined conversation		☐ Resident/surrogate not available at this	time
□Yes			
Describe the Key Aspects of the discu	ussio	n	
Advance Directive Orders in Place** (Any change in Advance Directives nee Check all that apply		n order signed by the physician per your stat	e requirements)
□ Full Code		□ DNR □ DNI □ DNH	☐ No Artificial Feeding ☐ POLST/MOLST/POST ☐ Other Care Limiting Orders
Is the resident on			
☐ Comfort Care/Palliative Care Plan			



### Deciding About Going to the Hospital



Older nursing home residents commonly develop new or worsening symptoms. When this occurs, a decision may be needed about whether to continue care in the nursing home or go to a hospital.

Because there are risks as well as benefits of care in a hospital, it is important to make the right decision. The decision depends on a number of factors, and how the nursing home resident and her or his relatives view the benefits and risks of care in the hospital as opposed to the nursing home.

Research has shown that some hospitalizations may be unnecessary. Whether hospitalization can be prevented depends on the resident's condition, the ability of the staff to provide the care necessary in the nursing home, and the preferences of the resident and her or his family.

#### Benefits of Hospital Care

There are many symptoms and conditions that usually require treatment in the hospital – for example, if vital signs are very abnormal (temperature, heart rate, or breathing rate), or if symptoms are severe and can't be controlled (such as pain or vomiting). Hospital care offers benefits in these situations, including:

- Ready availability of sophisticated lab tests, X-rays, and scans
- Access to doctors and specialists who are in the hospital every day
- Availability of surgery and other procedures if needed
- Intensive care units for people who are critically ill

#### Risks of Hospital Care

Nursing home residents are prone to many complications of care in a hospital. These complications may occur even in the best hospitals, because older age, chronic medical problems, and the condition that caused the transfer all combine with the hospital environment to put nursing home residents at high risk for complications. These complications include:

- New or worsening confusion
- More time spent in bed, which can increase the risk of blood clots, pressure ulcers, musde weakness, loss of function, and other complications
- Less sleep and rest due to tests, monitoring, and noise
- Increased risk for:
- Falls with injuries, such as cuts, bruises, and broken bones
- New infections
- Depression due to limited opportunities to socialize with friends and family, as well as being in an unfamiliar environment





## Implementation Model in the Commonwealth Fund Project

- Collaborative quality improvement project
- Convenience sample of 30 NHs in 3 states
- Non-randomized, pre-post design
- On site training for part of one day
- Facility-based champion
- Phone calls with 10 facility champions twice monthly facilitated by an experienced nurse practitioner
  - Availability for telephone and email consults
- Completion and submission of root cause analyses (INTERACT QI Tools)

Ouslander et al, J Am Geriatr Soc 59:745–753, 2011





# Reducing Unnecessary Hospitalizations from Nursing Homes: A Randomized, Controlled Implementation Trial

Supported by a grant from the National Institutes of Health (1R01NR012936)

ClinicalTrials.gov Identifier: NCT02177058





### **INTERACT** Randomized, Controlled Implementation Trial

JAMA Internal Medicine | Original Investigation

Effects of an Intervention to Reduce Hospitalizations From Nursing Homes

A Randomized Implementation Trial of the INTERACT Program

Robert L. Kane, MD; Peter Huckfeldt, PhD; Ruth Tappen, EdD, RN; Gabriella Engstrom, PhD, RN; Carolina Rojido, MD; David Newman, PhD; Zhiyou Yang, BS; Joseph G. Ouslander, MD

JAMA Intern Med. doi:10.1001/jamainternmed.2017.2657Published online July 3, 2017.

#### **Key Points**

Question Did training and support for implementation of a nursing home (NH) quality improvement program (Interventions to Reduce Acute Care Transfers [INTERACT]) reduce hospitalizations and emergency department (ED) visits?

**Findings** Among 85 NHs with no prior use of INTERACT, we compared preintervention and postintervention changes in hospitalization and ED visit rates for NHs randomly assigned to receive training and implementation support on INTERACT to changes in control NHs. We found no statistically significant effect on hospitalizations per 1000 NH residents.

Meaning Training and support for INTERACT implementation as carried out in this study had no effect on hospitalization or ED visit rates in participating NHs.





### "Difference in Difference" Analysis of Hospitalization Outcomes During INTERACT Implementation

~15% reduction in PAH

\	Preintervention (January 2012-Febru	Preintervention (January 2012-February 2013)		ry 2014)		
Host italization	Intervention (33 Unique NHs; 9050 Unique Residents)	Control (52 Unique NHs; 14 428 Unique Residents)	Intervention (33 Unique NHs; 8380 Unique Residents)	Control (52 Unique NHs; 13 472 Unique Residents)	Change in Intervention NHs Minus Change in Control NHs <sup>a</sup>	
and ED Visit Outcomes	Mean (SD) <sup>b</sup>	Mean (SD) <sup>b</sup>	Mean (SD) <sup>b</sup>	Mean (SD) <sup>b</sup>	(95% CI)	P Value
Hospitalizations						
All-cause admissions	3.66 (1.40)	3.70 (1.60)	3.25 (1.26)	3.42 (1.44)	-0.13 (-0.36 to 0.10)	.25
All-cause admissions within 30 d of NH admission	9.99 (5.46)	9.93 (5.44)	8.59 (4.90)	8.93 (4.58)	-0.37 (-1.40 to 0.67)	.48
All admissions, >31 d after NH admission	2.04 (1.04)	2.10 (1.24)	1.88 (0.98)	2.02 (1.27)	-0.09 (-0.28 to 0.11)	.39
Potentially avoidable hospitalizations	1.22 (0.75)	1.03 (0.80)	0.94 (0.67)	0.92 (0.74)	-0.18 (-0.31 to -0.04)	.01
30-d readmission rate	0.21 (0.16)	0.21 (0.16)	0.19 (0.16)	0.21 (0.18)	-0.01 (-0.04 to 0.01)	.36
30-d readmission rate ED Visits	0.21 (0.16)	0.21 (0.16)	0.19 (0.16)	0.21 (0.18)	-0.01 (-0.04 to 0.01)	.36
Visits that did not result in hospital admission	1.97 (1.01)	2.07 (1.23)	1.93 (1.02)	2.02 (1.12)	0.02 (-0.17 to 0.22)	.83





## Phase 1 (2012-2016)

- Tested collaborative care models to reduce avoidable hospital transfers among long-stay residents
- All programs placed additional personnel on-site in nursing facilities
- Some provided direct care to residents and families; some focused only on indirect care – training and support for staff and quality improvement
- At least 15 partner facilities were required, with average census >100 residents

Initiative to Reduce Avoidable Hospitalizations Among Nursing Facility Residents



Alabama Quality Assurance Foundation – Alabama Read more

Alegent Health – Nebraska Read more

HealthInsight of Nevada – Nevada Read more

Indiana University – Indiana Read more

The Curators of the University of Missouri – Missouri Read more

The Greater New York Hospital Foundation, Inc. – New York City Read more

UPMC Community Provider Services - Pennsylvania Read more







### **Phase 1 Results**

- 3%-40% reduction in probability of an allcause hospitalization for participating residents
- 6%-58% reduction in probability of a potentially avoidable hospitalization for participating residents
- Medicare expenditures were reduced by:
  - \$60-\$2,248 per resident for all-cause hospitalizations
  - \$98–\$577 per resident for potentially avoidable hospitalizations
- Estimated net Medicare spending reduction in 2015 was \$11 million

#### MEDICARE INNOVATION

By Melvin J. Ingber, Zhanlian Feng, Galina Khatutsky, Joyce M. Wang, Lawren E. Bercaw, Nan Tracy Zheng, Alison Vadnais, Nicole M. Coomer, and Micah Segelman

#### AGING & HEALTH

### Initiative To Reduce Avoidable Hospitalizations Among Nursing Facility Residents Shows Promising Results

DOI: 10.1377/Hikhaff.2016.1310 HEALTH AFFAIRS 36, NO. 3 (2017): 441–450 62017 Preject HOPE— The People-ts-People Health Foundation, Inc.



JAMDA 18 (2017) 960-966



#### **JAMDA**

journal homepage: www.jamda.com



Original Study

Successfully Reducing Hospitalizations of Nursing Home Residents: Results of the Missouri Quality Initiative



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#### ABSTRACT

Keywords:
Nursing homes
hospitalizations
avoidable hospitalizations
Medicare beneficiaries
interventions
care transitions
end-of-life care
health information technology
performance feedback reports

Purpose: The goals of the Missouri Quality Initiative (MOQI) for long-stay nursing home residents were to reduce the frequency of avoidable hospital admissions and readmissions, improve resident health outcomes, improve the process of transitioning between inpatient hospitals and nursing facilities, and reduce overall healthcare spending without restricting access to care or choice of providers. The MOQI was one of 7 program sites in the United States, with specific interventions unique to each site tested for the Centers for Medicaid and Medicare Services (CMS) Innovations Center.

Design and methods: A prospective, single group intervention design, the MOQI included an advanced practice registered nurse (APRN) embedded full-time within each nursing home (NH) to influence resident care outcomes. Data were collected continuously for more than 3 years from an average of 1750 long-stay Medicare, Medicaid, and private pay residents living each day in 16 participating nursing homes in urban, metro, and rural communities within 80 miles of a major Midwestern city in Missouri. Performance feedback reports were provided to each facility summarizing their all-cause hospitalizations and potentially avoidable hospitalizations as well as a support team of social work, health information technology, and INTERACT/Ouality Improvement Coaches.

Results: The MOQI achieved a 30% reduction in all-cause hospitalizations and statistically significant reductions in 4 single quarters of the 2.75 years of full implementation of the intervention for long-stay nursing home residents.

Implications: As the population of older people explodes in upcoming decades, it is critical to find good solutions to deal with increasing costs of health care. APRNs, working with multidisciplinary support teams, are a good solution to improving care and reducing costs if all nursing home residents have access to APRNs nationwide.





Initiative to Reduce Avoidable Hospitalizations Among Nursing Facility Residents

### Phase 2

(2016 - 2020)

- 6 sites across the country
- Testing a new Medicare Part B payment model layered on the Phase 1 clinical models
- Provides resources to the facility and providers to deliver acute care in place
- Focus on 6 qualifying conditions

### **Six Qualifying Conditions**

- Pneumonia
- •Urinary Tract Infection (UTI)
- Congestive Heart Failure (CHF)
- Dehydration
- Skin ulcers, cellulitis
- COPD, asthma







### **INTERACT and HIT**

### INTERACT Tools Must be Visible and Accessible in Everyday Care





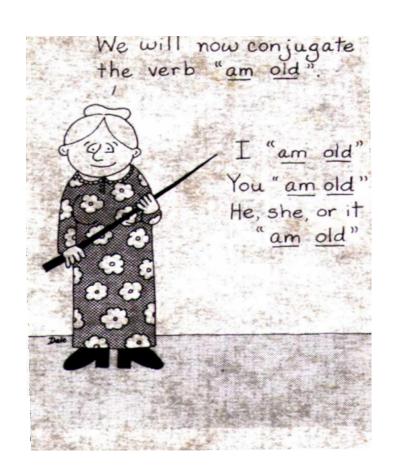








### Person-Centered Care and Quality of Life



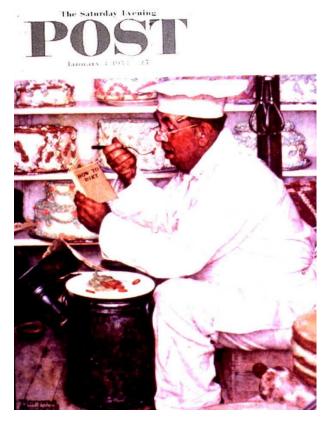






### **Person-Centered Care and Quality of Life**









Questions?
Comments?
Suggestions?

http://interact.fau.edu

