Using Data To Tell Your Falls Story

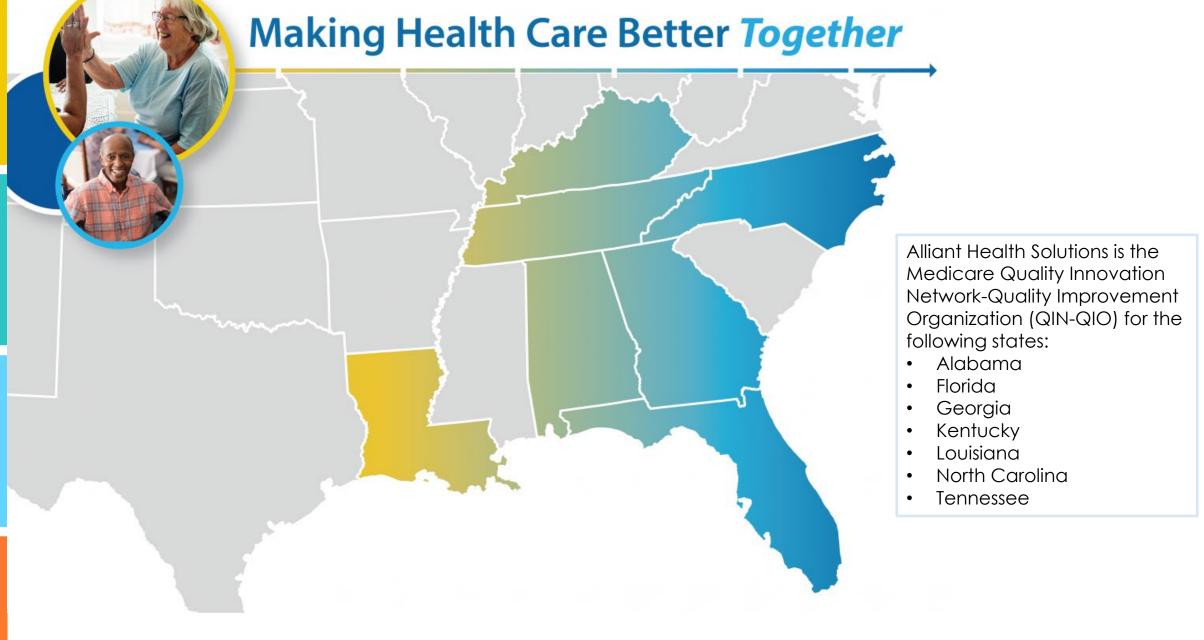


June 13, 2024

Presented by:

Lynn Wilson, MS, Amy Daly, LNHA, CPHQ, Julie Clark, BS, LPTA and Danyce Seney, RN, CPHQ





Alliant Health Solutions, QIN-QIO



The IPRO QIN-QIO

The IPRO QIN-QIO

- A federally-funded Medicare Quality Innovation Network-Quality Improvement Organization (QIN-QIO) in contract with the Centers for Medicare & Medicaid Services (CMS)
- 12 regional CMS QIN-QIOs nationally

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Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont

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Maryland, Delaware, and the District of Columbia



Working to ensure high-quality, safe healthcare for **20% of the nation's Medicare FFS beneficiaries**



ME

Lynn Wilson, MS

SENIOR QUALITY IMPROVEMENT SPECIALIST

Lynn has more than 30 years of experience with regulatory agencies for community mental health centers and nursing homes and is a nationally recognized QI leader in long-term care, behavioral health and hospice and palliative care settings. Under her leadership, behavioral health and end-of-life care practice innovations generated through frontline staff quality improvement processes have been recognized as national best practices.

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Amy Daly, MA, LNHA, CPHQ

SENIOR QUALITY IMPROVEMENT SPECIALIST

Amy is a licensed nursing home administrator with over 20 years of leadership and long-term care management experience. In addition to her work as a vice president of long-term care and facility administrator, she has served on the boards of the Genesee Health Facilities Association (as treasurer and education committee member) and the Genesee Health Facilities Foundation. She serves as a New York State Department of Health Informal Dispute Resolution (IDR) panel member and has been an adjunct clinical instructor of dental hygiene at Monroe Community College. Amy has a master's degree in health promotion and a bachelor's in health sciences.

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Julie Clark, BS, LPTA

TN STATE QUALITY MANAGER

Julie is a licensed physical therapist assistant with more than eight years of experience in managing rehab departments while treating patients in long-term care, hospital, outpatient, home health, and inpatient hospital settings. She has a bachelor's degree in health care leadership. Julie has served as a state quality improvement manager in Tennessee since 2012, collaborating with long-term care, hospitals, community coalitions, families, and Medicare beneficiaries as they work to make health care better. Julie's areas of expertise include geriatric seating and positioning, QAPI, NHSN, MDS quality measure review, falls reductions, community coalition development and process improvement in varied topics, including infection control, vaccines and COVID-19.

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Danyce Seney, RN, BSN, IP, RAC-CTA, CPHQ

QUALITY IMPROVEMENT SPECIALIST

Danyce Seney is a quality improvement specialist and registered nurse with certifications in Lean, Infection Control Preventionist and Educator for Adult Learners.

Danyce supports skilled nursing facilities in utilizing a quality improvement framework to implement evidence-based interventions and strategies to improve patient safety, immunization rates and reduce avoidable readmissions.

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Learning Objectives

Learn how to use and talk about a fall tracker tool.

Identify key sources of fall data.

Learn why using the fall rate is important.

Agenda

- Icebreaker
- Data
- Use Tomorrow













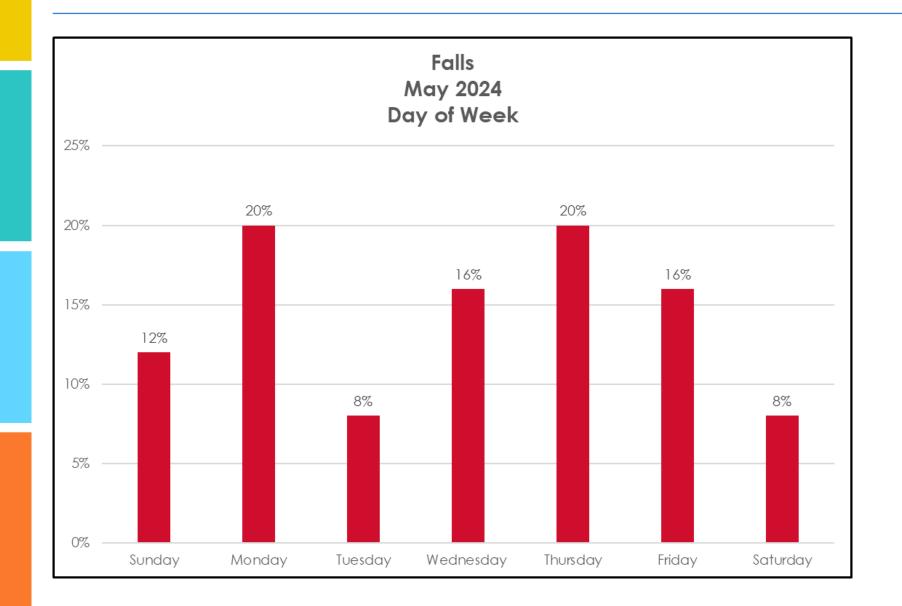








Questions?





Falls From a Facility Assessment Perspective



Inputs:

- Residents, Resident
 Representatives, Family Members
- Nursing Home Leadership
- Governing Body
- Medical Director
- Direct Care Staff

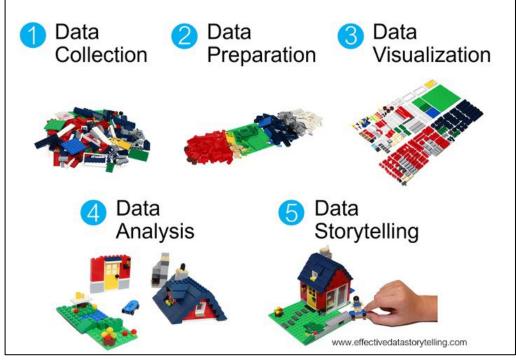
The POWER of DATA

Today, we're embarking on an exploration into the world of data—how we capture it, mold it, and make it tell its stories.

- Data is more than just numbers and charts; it's the backbone of informed decision-making and innovation.
- To kick off our journey, let's ponder a quote that highlights the transformative power of data:

Data doesn't just support what we know; it often reveals the unexpected, guiding us toward more strategic decisions and innovative solutions.

"Without data, you're just another person with an opinion." – W. Edwards Deming

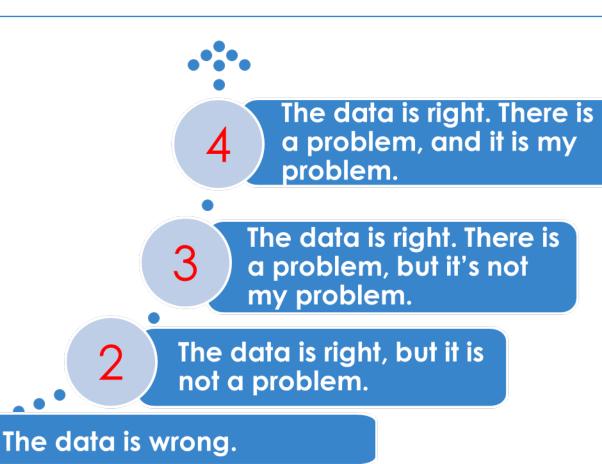




1 Data Collection



Falls Data Collection and Stages of Data Acceptance



https://jamboard.google.com/d/1qFT-1EEYBQQxHsFNCrwqSYMUNZ2SmPDYMHN ZatXOMOY/edit?usp=sharing

Source: https://www.ahrq.gov/patient-safety/settings/hospital/fall-prevention/toolkit/measure-fall-rates.html







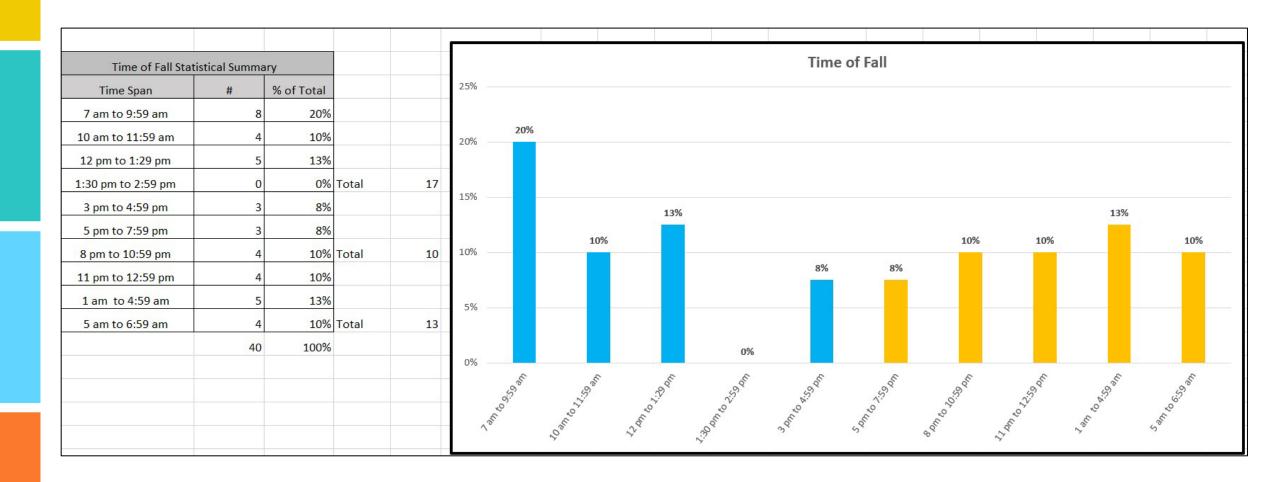


Data Collection and Preparation

			PUSCI All EVAL			J-18-4JJ8		Activity Prior to	ran resurteu m		Heatment
Resident	Unit v	Date of Fall 🔻	Complete *	Day of We€ ▼	Shift *	10=5a-659a	Location Code *	Fall ▼	Injury 🔻	Injury Type	Location *
m=	North	7/11/2023	Yes	Tues	2	7:00 AM	Room	Bed	Yes	SkinTear	III all'ales
	West	7/19/2023	Yes	Wed	1	12:00 PM	Room	Wheelchair	No	NA	
	West	7/21/2023	Yes	Fri	1	12:00 PM	Room	Wheelchair	No	NA	
	West	7/25/2023	Yes	Tues	3	5:00 AM	Room	Bed	Yes	Fracture	
	North	7/25/2023	Yes	Tues	2	5:00 PM	Room	Bed	No	NA	
	North	7/17/2023	Yes	Mon	1	12:00 PM	Room	Bed	No	NA	
	West	7/25/2023	Yes	Tues	1	7:00 AM	Room	Other	Yes	SkinTear	
	North	7/10/2023	Yes	Mon	3	5:00 AM	Room	Wheelchair	No	NA	
	North	8/5/2023	Yes	Sat	3	3:00 PM	Room	Bed	No	NA	
	West	8/29/2023	Yes	Tues	1	8:00 PM	Room	Bed	No	NA	
	North	8/16/2023	Yes	Sun	2	8:00 PM	Room	Bed	No	NA	
	North	8/28/2023	Yes	Mon	3	5:00 AM	Room	Bed	No	NA	
	North	8/16/2023	Yes	Sun	1	12:00 PM	Hallway	Wheelchair	No	Other	
	North	8/25/2023	Yes	Fri	3	1:00 AM	Bathroom	Transfer	Yes	SkinTear	
	West	8/12/2023	Yes	Sat	1	7:00 AM	Bathroom	Walking	No	NA	
	West	8/5/2023	Yes	Sun	3	11:00 PM	Room	Bed	No	NA	
	West	8/5/2023	Yes	Sun	2	8:00 PM	Room	Bed	No	NA	
	West	8/5/2023	Yes	Sun	2	3:00 PM	Room	Bed	No	NA	

icking F	orm	:	iter X ′es		Day of Week	Enter Shift Code	Time	Enter Time Code	Enter Location Code	ACTIVIT Y Prior to Fall	Enter X if Yes	Injury Type	Enter Code								omp			
Resident Room Number	Date of Admit /	Post- Fall	Fall with restraint	Date of Fall	1 = Sun 2 = Mon 3 = Tue 4 = Wed	Shift" 1-Dey 2-Evenin	(Enter actual time with "space"	Entre Code 1-72-3532 2-182-1553 3-152-1259 4-138-2559 5-32-6539	Location of Fall* 1- In Room 2-Bathroom 3-Hallway 4-Dining Room 5- Activities 6-Therapy	W-Walking T-Transfor B-Bod	Fall Resulted	1-vkin toar 2-contwion 3-abrarion 4-bono fracturo	Tx Location F-Facility	Injury Detail Descriptio n ?	of fa	Acute medical	Conditions	Medications	Senson status	gical Status	Environmental Issues	diagnosis	Tolleting or Incontinence	IPRO
and Bed (Room- Bed)	ReAdmit	Eval?	in use?		5 = Thu 6 = Fri 7 = Sat	4 3-HiqLt	n AM or PM)	E-Sp-753p 7-8p-1853p 8-11p-1253a 3-1a-453a 18-5a-653a	8-Shower/Tub		in Injury?	5-dirlocation 6-clared headinjury 7-rubdural hematoma	ER-Emorq A-Admittod		Histo	Underlying	5	ä		Psy	Environm			Comments
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405	09/15/20	X		05/10/24	6	2	500 PM 630 PM	6	4	C	X	1	F			X		X		X	Н	-	_	
306	06/18/19	X		05/12/24	1	1	1200 PM	3	4	C		_				Н		+	+	-	Н	-	-	
507	08/17/21	X		05/16/24	5	2	330 PM	5	2	W						Н		+	+		Н		-	
604	05/20/23	X		05/22/24	4	2	900 PM	7	1	В	X	1	F			Н	X	,	()	X	Н	х	Y	
108	09/19/19	X		05/14/24	3	2	700 PM	6	1	C	X	2	F			_		x i	_	X	Н	^	^	
404	08/15/23	X		05/13/24	2	3	500 AM	10	1	В		-				Н	^	^ /		^	Н			
305	01/23/21	X		05/10/24	6	2	800 PM	7	9	W						Н					Н			
609	03/28/22	Χ		05/13/24	2	1	1100 AM	2	8	C	Х	3	F			Н					Н			
203	06/24/24	Χ		05/23/24	5	3	600 AM	10	2	В						П					П			
107	03/16/24	Χ		05/09/24	5	-1	930 AM	1	3	W						П					П			
200	02/24/24	Χ		05/03/24	6	2	730 PM	6	2	С	Х	3	F			П					П			
605	04/21/23	X		05/08/24	4	3	1030 PM	7	1	В	Х	1	F											
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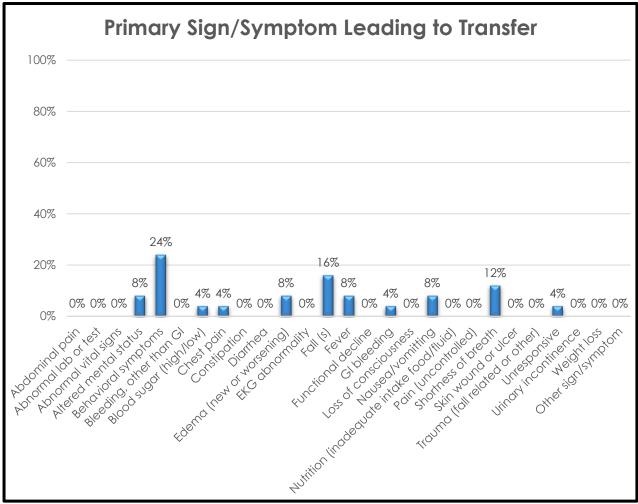
Data Visualization



Visualization

Primary sign/symp trans		ading to
Symptom	#	%
Abdominal pain	0	0%
Abnormal lab or test	0	0%
Abnormal vital signs	0	0%
Altered mental status	2	8%
Behavioral symptoms	6	24%
Bleeding, other than GI	0	0%
Blood sugar (high/low)	1	4%
Chest pain	1	4%
Constipation	0	0%
Diarrhea	0	0%
Edema (new or worsening)	2	8%
EKG abnormality	0	0%
Fall (s)	4	16%

Fever	2	8%
		0/0
Functional decline	0	0%
GI bleeding	1	4%
Loss of		
consciousness	0	0%
Nausea/vomitting	2	8%
Nutrition		
(inadequate intake		
food/fluid)	0	0%
Pain (uncontrolled)	0	0%
Shortness of breath	3	12%
Skin wound or ulcer	0	0%
Trauma (fall related		
or other)	0	0%
Unresponsive	1	4%
Urinary		
incontinence	0	0%
Weight loss	0	0%
Other sign/symptom	0	0%
Total	25	100%



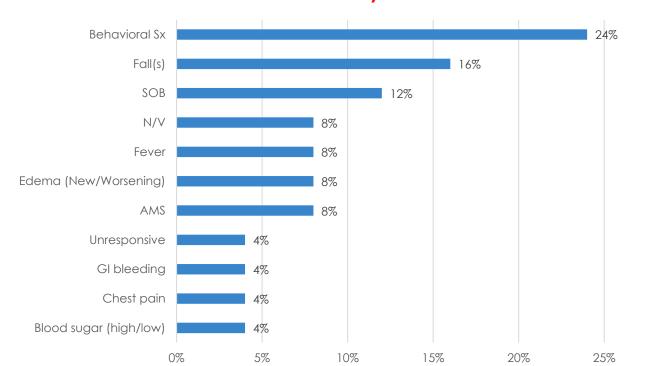
SS Hospital Readmissions

Goal: 11% Rehospitalization rate for SS Residents. (Less is desired.)

Summary: In May 2024, **25 short-stay residents were rehospitalized** following admission. The total readmission rate for SS residents in May was 16%. The rate is 2% higher than April 2024. Our YTD SS Readmission rate is 17.5%, 6.5%

higher than goal.





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	M EASURE		
(INFORMATION	&	
	DISCUSSION		
	DIRECTION		

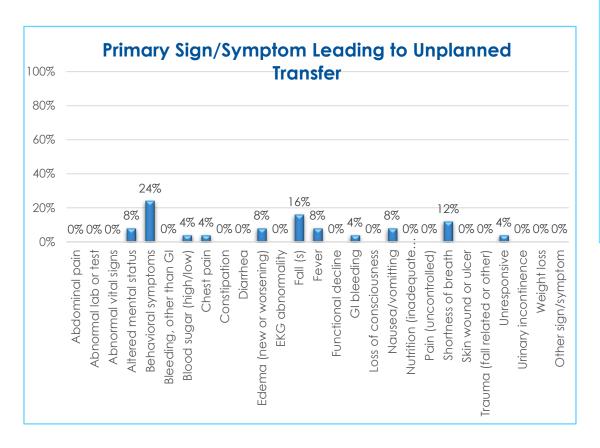
		\
	Transparency	
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	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/
30%		

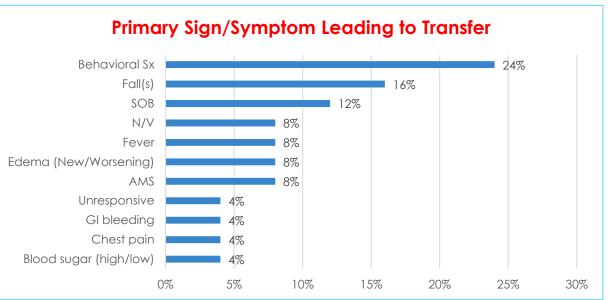
S/Sx	%	#
Behavioral Sx	24%	6
Fall(s)	16%	4
SOB	12%	3
AMS	8%	2
Edema (New/Worsening)	8%	2
Fever	8%	2
N/V	8%	2
Blood sugar (high/low)	4%	1
Chest pain	4%	1
GI bleeding	4%	1
Unresponsive	4%	1
ABN pain	0%	0
ABN vital	0%	0
ABNI lab/test	0%	0
Bleeding, non GI	0%	0
Constipation	0%	0
Diarrhea	0%	0
EKG (Abnormality)	0%	0
Functional decline	0%	0
Loss of consciousness	0%	0
Nutrition	0%	0
Other	0%	0
Pain uncontrolled	0%	0
Skin wound/ulcer	0%	0
Trauma (fall or other)	0%	0
UTI	0%	0
Wt loss	0%	0
Total	100	25

Note: Data source: X report in EHR. Report covers 5/1/24 - 5/31/24. Report run on 6/12/24.



Tale of Two Charts





What is Data-to-Ink ratio?

The Data-to-Ink ratio refers to the concept of **optimizing the amount of ink utilized to represent data** as opposed
to the quantity of ink devoted to the presentation of the
visualization itself.

Ideal visuals ought to be comprised solely of Data-Ink.

Eliminate non-Data-Ink wherever feasible to prevent unnecessary distractions during the data presentation.

The idea is to avert the viewer's focus from inconsequential components.

Edward Tufte's Six Principles of Graphical Integrity | LinkedIn

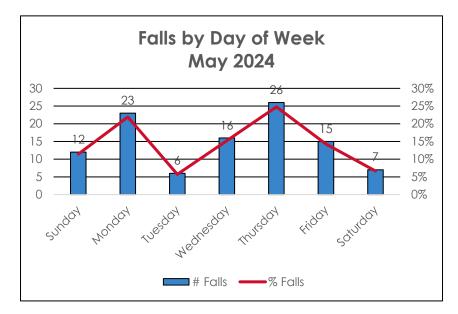


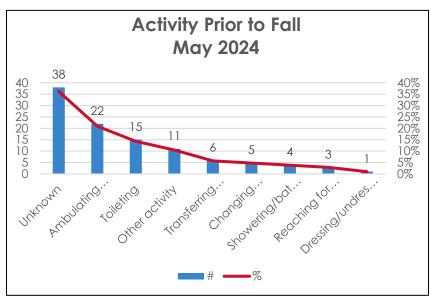
Falls From a Facility Assessment Perspective

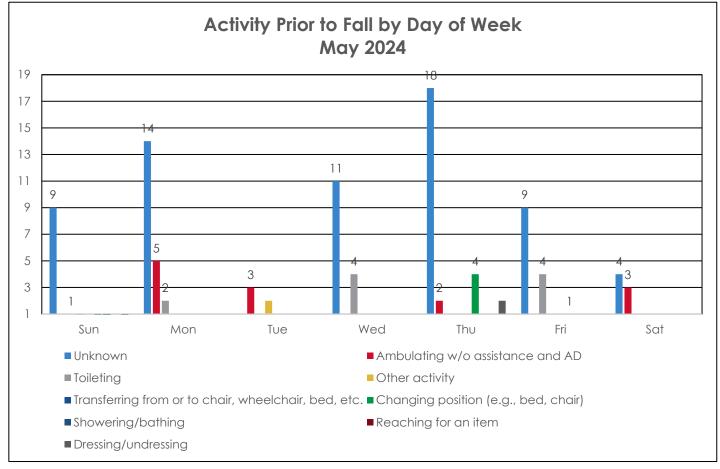


Inputs:

- Residents, Resident Representatives, Family Members
- Nursing Home Leadership
- Governing Body
- Medical Director
- Direct Care Staff



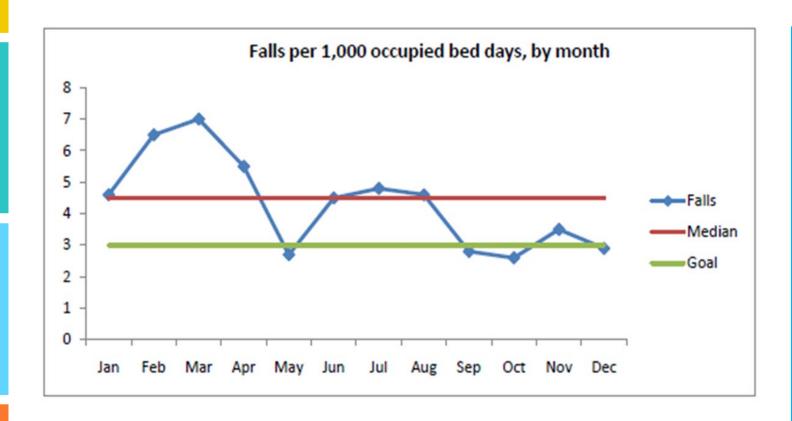








Falls Rate



Why rate per 1000 patient days matters:

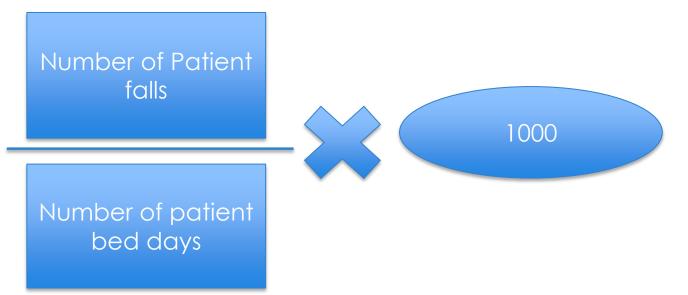
Raw data connects us to the impact on a patient, whereas a falls ratio is more useful for analysis.

Ratio minimizes confusion from variation in the data that may result in changes in volume rather than changes in key measures.

A run chart like the one above can be created using a template available at no cost after free registration at the Institute for Healthcare Improvement Website: Run Chart Tool | Institute for Healthcare Improvement (ihi.org)

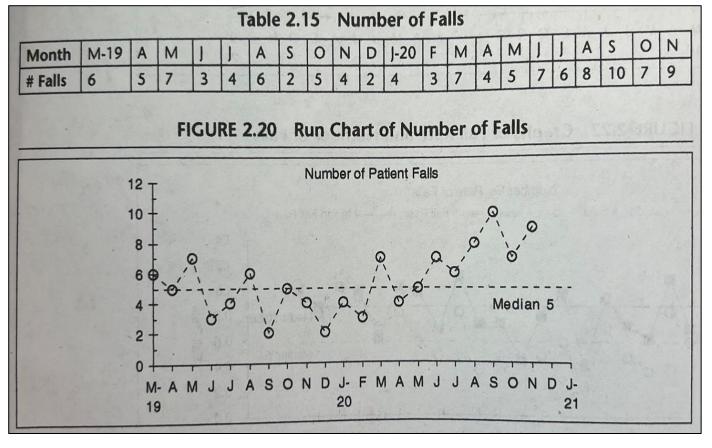


Falls Rate Formula



Total Falls	40
Total Census Days	2345
Falls Rate	17.06

Month # Falls		# Occ Bed Days	Fall Rate	Month	# Falls	# Occ Bed Days	Fall Rate	
M-19	6	612	0.980	J-20	4	549	0.729	
A	5	719	0.695	F	3	412	0.728	
M	7	655	1.069	М	7	632	1.108	
1	3	497	0.604	A	4	589	0.679	
1	4	553	0.723	M	5	508	0.984	
A	6	649	0.924	1	7	679	1.031	
S	2	502	0.398	1	6	982	0.611	
0	5	514	0.973	A	8	802	0.998	
N	4	507	0.789	5	10	978	1.022	
D	2	443	0.451	0	7	812	0.862	
				N	9	917	0.981	



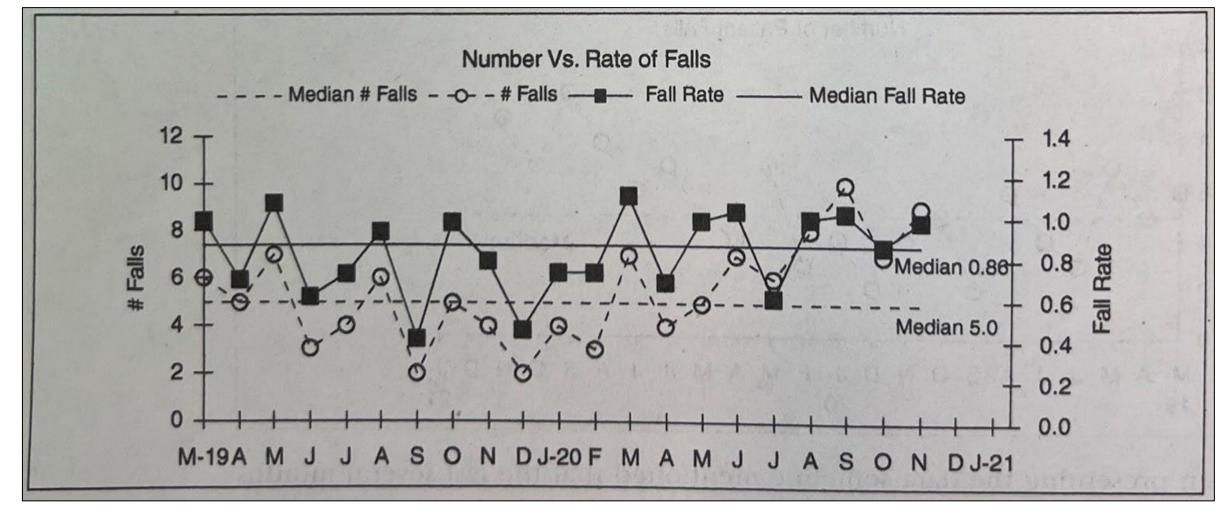
Provost, L. P., & Murray, S. K. (2022). The Health Care Data Guide Learning from data for improvement. John Wiley & Sons, Incorporated.

Average = calculated by adding all the individual values and dividing by the total number of values

Median = calculated by taking the middle value

Median = often more meaningful because it accounts for outliers because it isn't influenced by the extremes.





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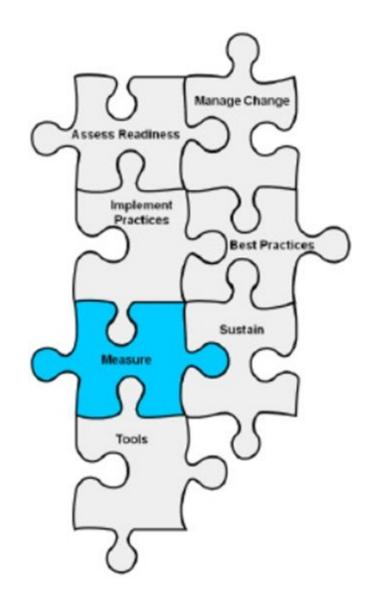
Median = calculated by taking the middle value

Median = often more meaningful because it accounts for outliers because it isn't influenced by the extremes.



"Data will never tell you the solution, but it will tell you where you need to focus your attention."

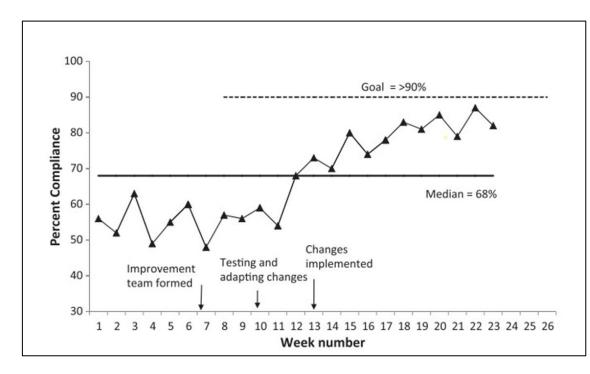
Forid Alom, East London NHS Foundation Trust (ELFT)

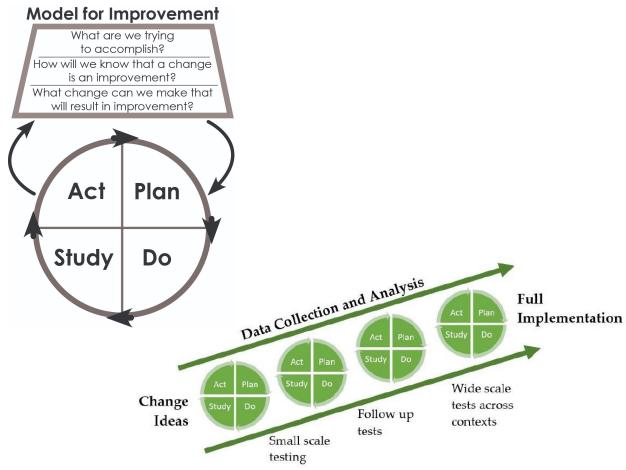






Identify QI Opportunity and Plan Tests of Change





Use Tomorrow

- Identify one indicator for a deeper dive
- Determine what reports are currently available in your EHR and/or tracking tool
- Reach out to your QIO for Falls Tracker and ongoing mentoring support



References

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- Provost, L. P., & Murray, S. K. (2022). The Health Care Data Guide Learning from data for improvement. John Wiley & Sons, Incorporated.
- The run chart: A simple analytical tool for learning from ... (n.d.-b).

 https://www.med.unc.edu/neurosurgery/wp-content/uploads/sites/460/2018/10/The-run-chart-a-simple-analytical-tool.pdf

 The run chart: A simple analytical tool for learning from ... (n.d.-b).

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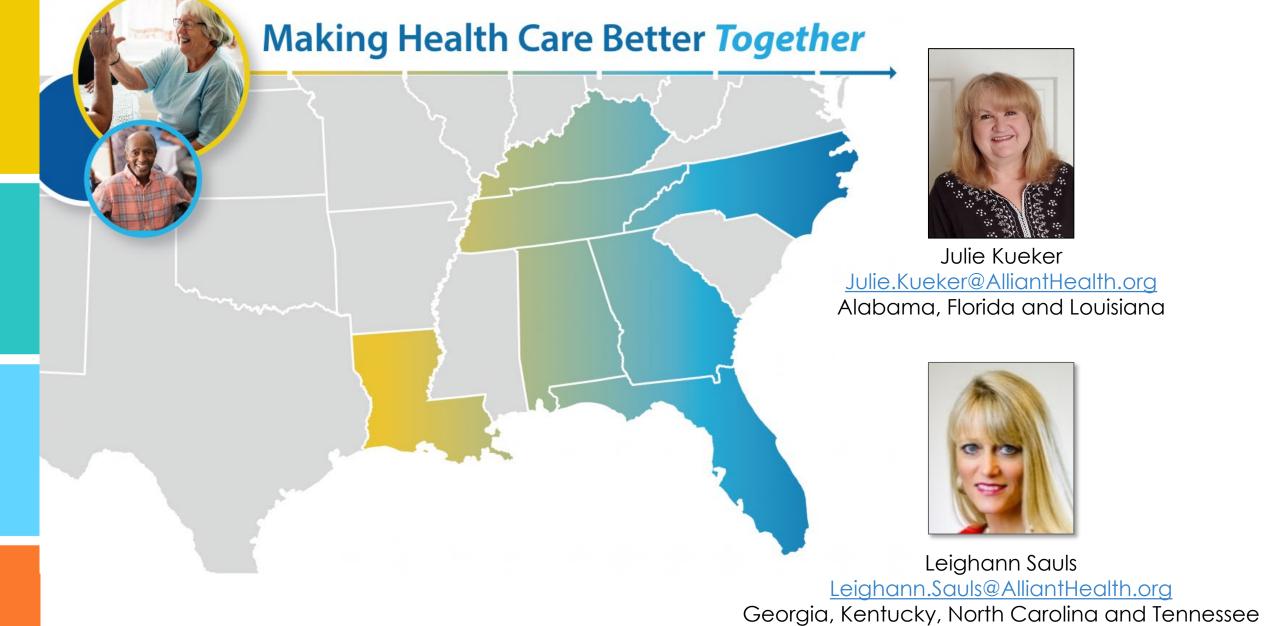
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Questions?



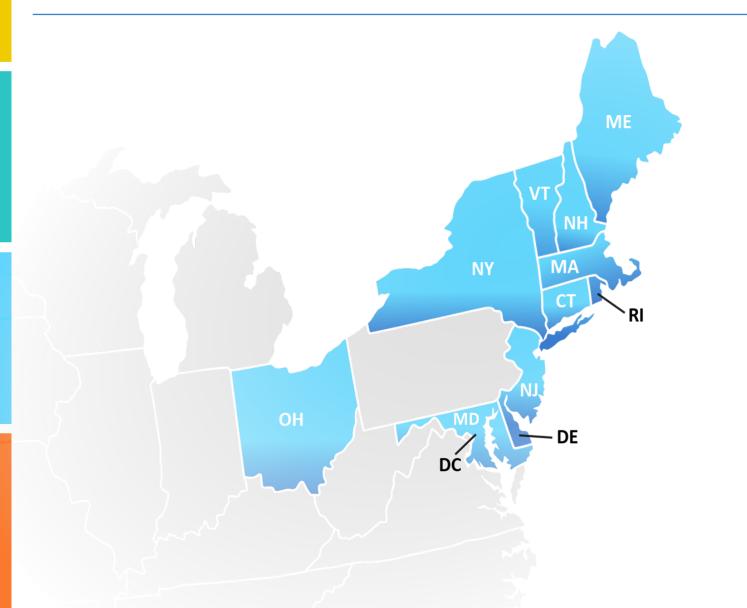




Program Directors



Better Healthcare, Realized





Melanie Ronda, MSN, RN, LTC-CIP, CPHQ
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Infection Preventionist
Email: mronda@ipro.org





Making **Health Care** Better Together

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