## *The Way UP:* How Four Cross-Cutting Strategies Can Reduce Harm Across the Board

DFW Tuesday January 9<sup>th</sup>, 2018 Barbara DeBaun, RN, MSN, CIC







### A Fresh Approach to Harm Reduction









## **Polling Question**

• The UP Campaign is:

- Brand new information for me
- Something we just started working on
- Something we have fully executed
- Something we don't have time for at the moment





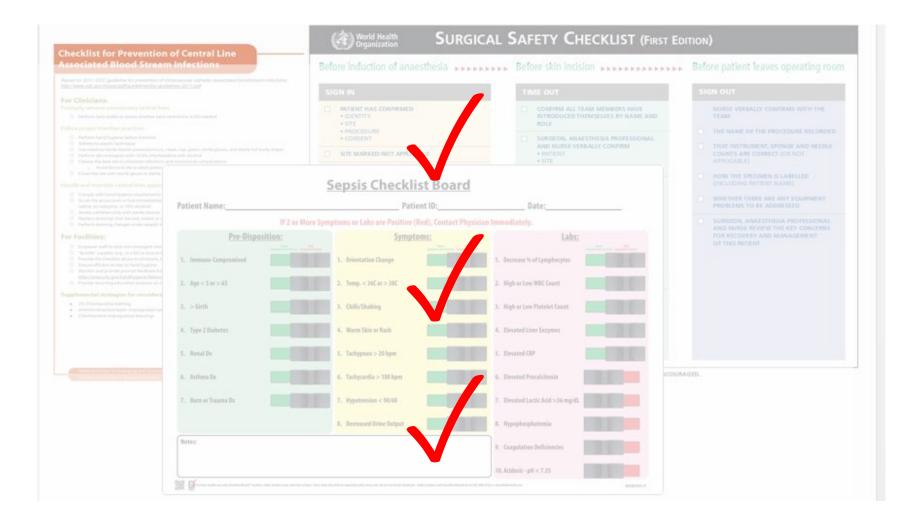
### **Questions to Run On**

- How can we better engage front-line caregivers without creating additional burdens?
- What could introducing a simple, cross-cutting set of practices accomplish with your hospitals?
- How can you deploy a program like the UP Campaign with your hospitals and strengthen front-line engagement?





### Are Checklists Enough?





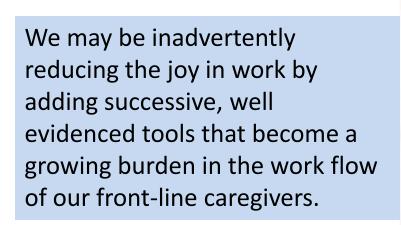


## Why Incorporate UP?

- Patient safety with UP & checklists together!
  - Checklists have been integrated into many processes (necessary).
  - Have staff become too task- focused?
  - UP enhances critical thinking.
  - UP & checklists create synergy for patient safety.















### Why the "UP" Campaign?

- Increases impact on harm reduction
- Generates momentum in your organization
- Focuses support from leadership
- Engages front line staff
  - connects the dots
  - creates a vision
- Applies throughout organization
- Simplifies patient safety implementation
- Help patients recover **faster** and with **fewer** complications

Goal: engage front-line staff and leaders and to increase critical thinking skills.





# Can we streamline and simplify, making it easier for front-line staff and still improve safety?





## **Objectives**

Outline the UP Campaign crosscutting interventions

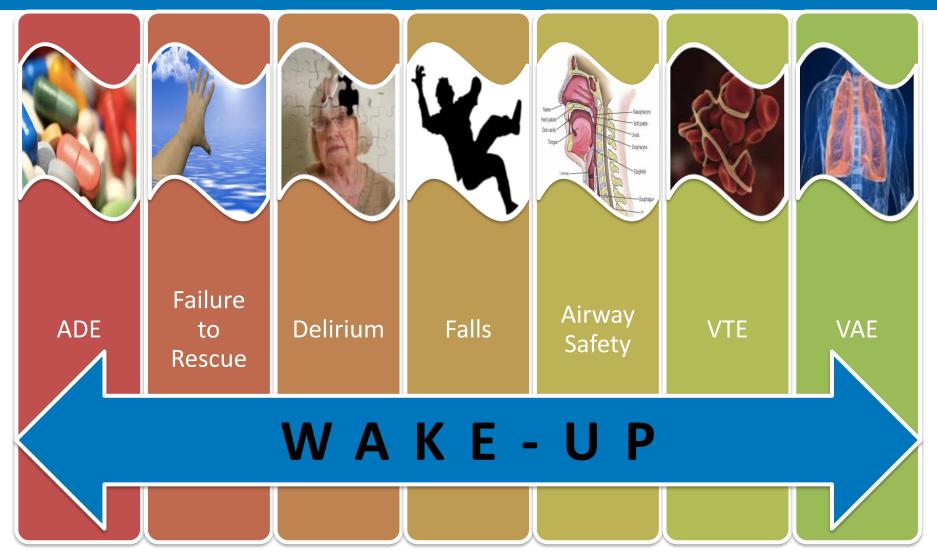
Identify essential next steps for WAKE-UP, GET-UP, SOAP-UP and SCRIPT-UP

# Develop an implementation plan for the UP Campaign





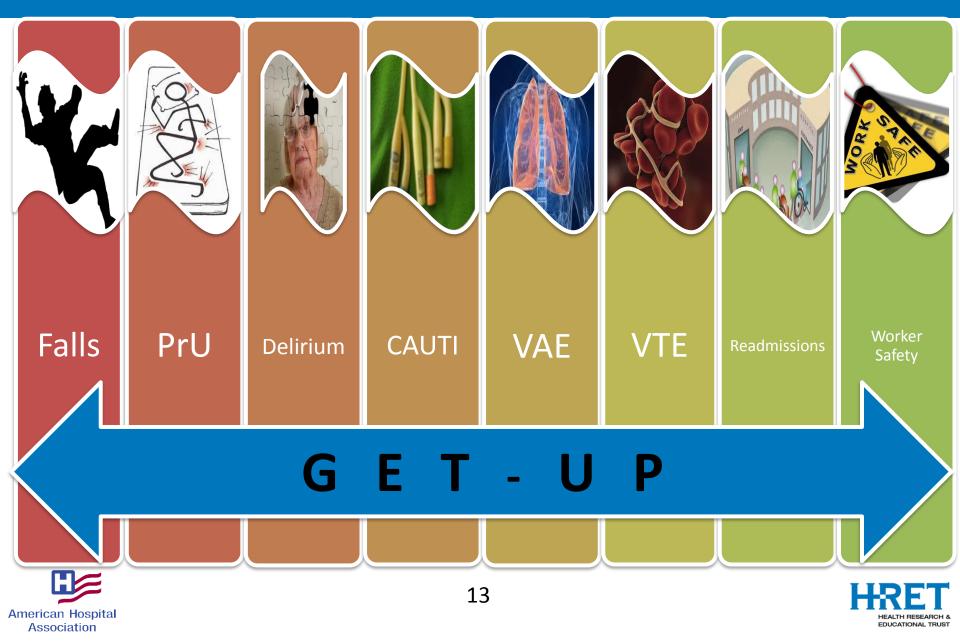
### **#1 Opioid & Sedation Management**





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### **# 2 Early Progressive Mobility**



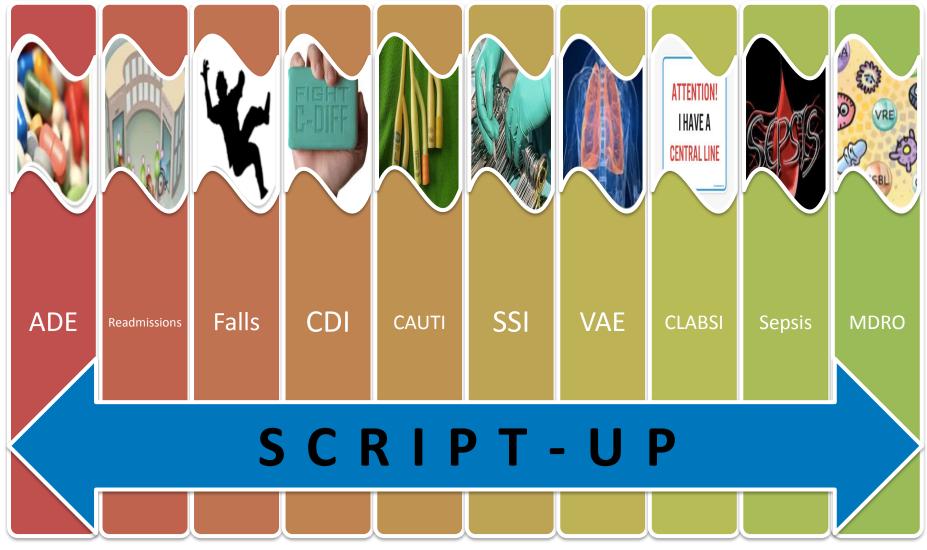
### **# 3 Hand Hygiene**



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### **#4 Optimize Medications**





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### **FOUNDATIONAL QUESTIONS:**

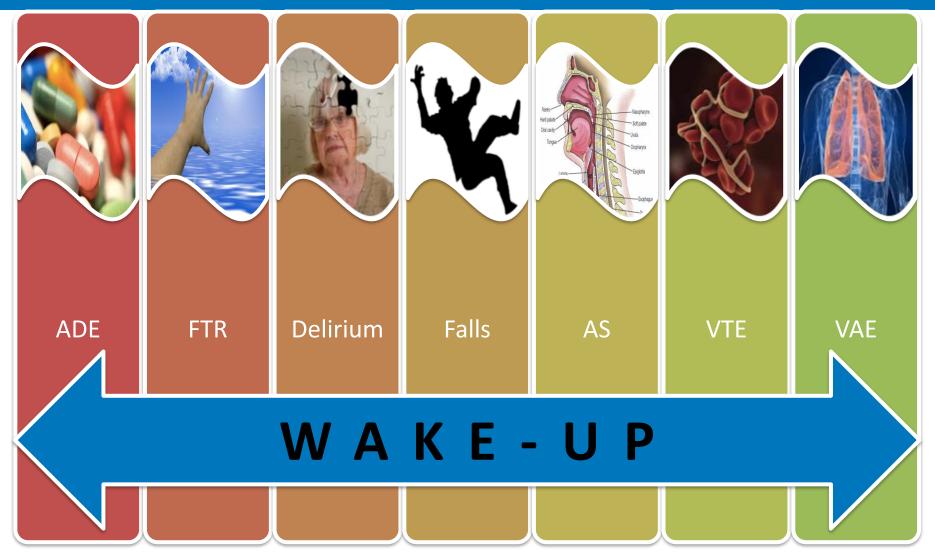
- Is my patient awake enough to get 1. up?
- 2. Have I protected my patient from infections?
- Does my patient need any medication 3. changes?







### **#1 Opioid & Sedation Management**





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## **Polling Question**

 Have you ever taken care of a patient who appeared to be 'resting/sleeping comfortably'?

– Yes

— No





### **Sleep vs Sedation**



# Is this normal sleep or dangerous sedation?





## **Not Just Sedatives and Opioids**

- Antihistamines/anticholinergics
- Antipsychotics
- Some antidepressants
- Anti-emetics
- Muscle relaxants





### **ICU Pitfalls of Sedatives and Analgesics**

Sedatives and analgesics may contribute to:

- Increased duration of mechanical ventilation
- Length of intensive care requirement
- Impede neurological examination
- May predispose to delirium

Kollef M, et al. *Chest*. 114:541-548. Pandharipande et al. *Anesthesiology*. 2006;124:21-26.





### Med/Surg Pitfalls of Sedatives and Analgesics

- Over sedation
- Transfer to ICU
- Hypoxic encephalopathy
- Death





### **MUST DO's**







### WAKE-UP MUST DO's

1. Establish Expectations

2. Pair POSS & Pain

### 3. Manage with Multiple Modalities





#### MUST DO #1 Establish Expectations

Goals of Pain Management:

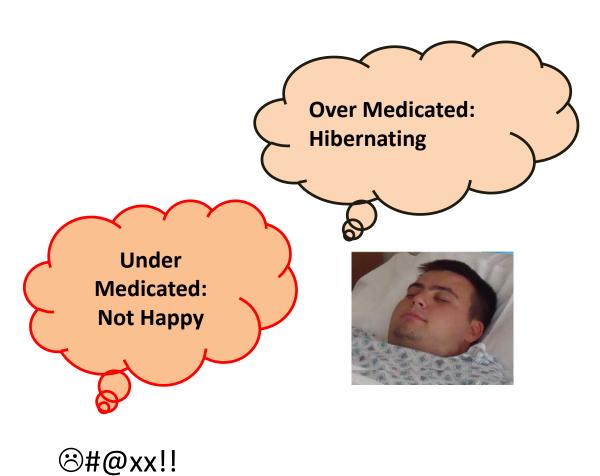
- Relieve suffering
- Achieve early mobilization
- Reduce hospital length of stay

### THE GOAL IS NOT ZERO PAIN!





#### MUST DO #2 Pair POSS & Pain





Just

**Right!** 





#### Pasero Opioid-Induced Sedation Scale (POSS) With Interventions\*

#### S = Sleep, easy to arouse

Acceptable; no action necessary; may increase opioid dose if needed

#### 1 = Awake and alert

Acceptable; no action necessary; may increase opioid dose if needed

#### 2 = Slightly drowsy, easily aroused

Acceptable; no action necessary; may increase opioid dose if needed

#### 3 = Frequently drowsy, arousable, drifts off to sleep during conversation

Unacceptable; monitor respiratory status and sedation level closely until sedation level is stable at less than 3 and respiratory status is satisfactory; decrease opioid dose 25% to 50%<sup>1</sup> or notify primary<sup>2</sup> or anesthesia provider for orders; consider administering a non-sedating, opioid-sparing nonopioid, such as acetaminophen or a NSAID, if not contraindicated; ask patient to take deep breaths every 15-30 minutes.

#### 4 = Somnolent, minimal or no response to verbal and physical stimulation

Unacceptable; stop opioid; consider administering naloxone<sup>3,4</sup>; stay with patient, stimulate, and support respiration as indicated by patient status; call Rapid Response Team (Code Blue) if indicated; notify primary<sup>2</sup> or anesthesia provider; monitor respiratory status and sedation level closely until sedation level is stable at less than 3 and respiratory status is satisfactory.

#### \*Appropriate action is given in italics at each level of sedation.

<sup>1</sup> If opioid analgesic orders or hospital protocol do not include the expectation that the opioid dose will be decreased if a patient is excessively sedated, such orders should be promptly obtained.

<sup>2</sup> For example, the physician, nurse practitioner, advanced practice nurse, or physician assistant responsible for the pain management prescription. <sup>3</sup> For adults experiencing respiratory depression give intravenous naloxone very slowly while observing patient response ("titrate to effect"). If sedation and respiratory depression occurs during administration of transdermal fentanyl, remove the patch; if naloxone is necessary, treatment will be needed for a prolonged period, and the typical approach involves a naloxone infusion. Patient must be monitored closely for at least 24 hours after discontinuation of the transdermal fentanyl.

<sup>4</sup> Hospital protocols should include the expectation that a nurse will administer naloxone to any patient suspected of having life-threatening opioid-induced sedation and respiratory depression.

© 1994, Pasero C. Used with permission. As cited in Pasero C, McCaffery M. Pain Assessment and Pharmacologic Management, p. 510. St. Louis, Mosby/Elsevier, 2011.



discharge from PACU

o N N

additional opioids



#### Two Scales are Better than One for Narcotic and Sedation Administration

#### PAIN ALONE

- Risk factors may be absent
- Objective?
- Dosage based on number or range
- Patients and families understand the numeric dosing

#### PAIN & POSS

- Two scales allow for safer dosing
- High pain scale with high POSS scale – no narcotics
- High pain scale low POSS med dose





#### MUST DO #3 Multi-Modal Pain Management

### Pharmacological and Non-pharmacological







#### **MULTIMODAL PAIN MANAGEMENT**

- Combination of opioid and one or more other drugs
  - acetaminophen (Tylenol, others)
  - ibuprofen (Advil, Motrin IB, others)
  - celecoxib (Celebrex)
  - ketamine (Ketalar)
  - gabapentin (Gralise, Neurontin)
- Non-pharmacological interventions

www.mayoclinic.org/pain-medications/art-20046452





CAN WE MANAGE PAIN WITH NON-PHARMACOLOGIC METHODS?

What do we do at home?

### **Comfort measures:**

- Pet therapy
- Warm compresses, blankets
- Ice packs
- Extra pillows

- Aromatherapy
- Massage
- Herbal tea
- Stress ball
- Music





### **DO COMFORT ITEMS HELP?**

- These modalities can:
  - Reduce anxiety
  - Reduce pain
- Reducing anxiety can reduce pain
- Non-pharmacologic pain reduction methods reduce the need for pain medications





### **POSITIVE RESULTS**

- Pain scores
- Nausea scores
- Anxiety scores....

### All decreased by more than 50%

NEXT: Looking to see if opioid usage and opioid ADEs are both decreased.





### WAKE UP Success, Barriers & Help

#### Must Do's

Establish
 Expectations

2. Pair POSS & Pain

3. Manage with Multiple Modalities

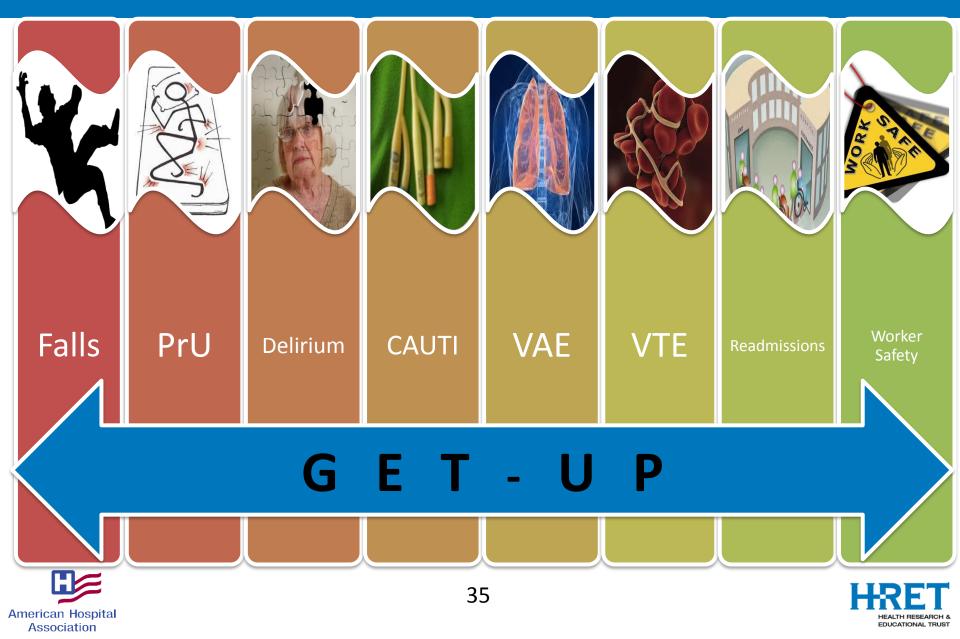
#### **Next Steps**

- ✓ Are you setting pain management expectations ("0" is not the goal) prior to admission?
- ✓ Are you asking about comfort level in addition to pain score?
- Are you using the Pasero Opioidinduced Sedation Scale (POSS) prior to and after opioid administration?
- Do you offer multimodal pain management; both pharmacologic and nonpharmacologic modalities?





### **# 2 Early Progressive Mobility**



## **Polling Question**

 In our facility, we do the following for our alert critically ill patients who happen to require ventilation support:

- Keep them on strict bedrest
- Try to get them up in a chair
- Actively assist them to ambulate





#### Pathophysiological changes within 24H of bed rest



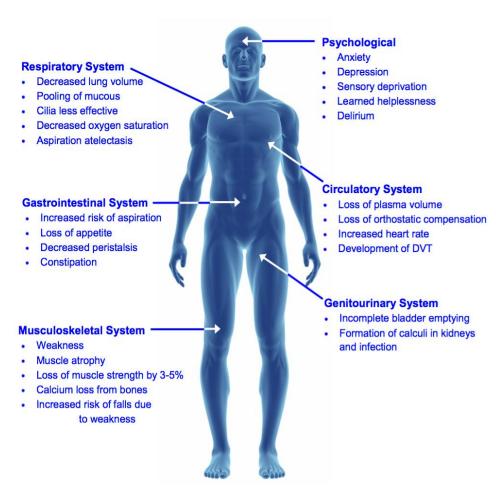




Image retrieved at: Mobilization of Vulerable Elders in Ontario (MOVE ON)



### What happened to mobility?



"There is an inherent tension between preventing falls and promoting mobility" Growdon, Shorr, Inouye 2017





## **Cumulative impact on quality of life**

- "New Walking Dependence" occurs in 16-59% in older hospitalized patients (Hirsh 1990, Lazarus 1991, Mahoney 1998)
- 65% of patients had a significant functional mobility decline by day 2 (Hirsh 1990)
- 27% still dependent in walking 3 months post discharge (Mahoney 1998)







### It's Simple

### If they came in walking, keep them walking







### Use mobility to accelerate progress



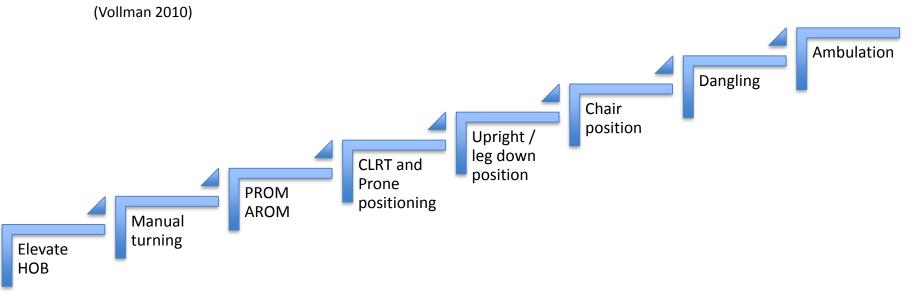
"When am I going to walk? I walked yesterday. It's better than just being in the chair. I feel better when I am walking."





## What is progressive mobility?

 Progressive mobility is defined as a series of planned movements in a sequential matter beginning at a patient's current mobility status with goal of returning to his/her baseline

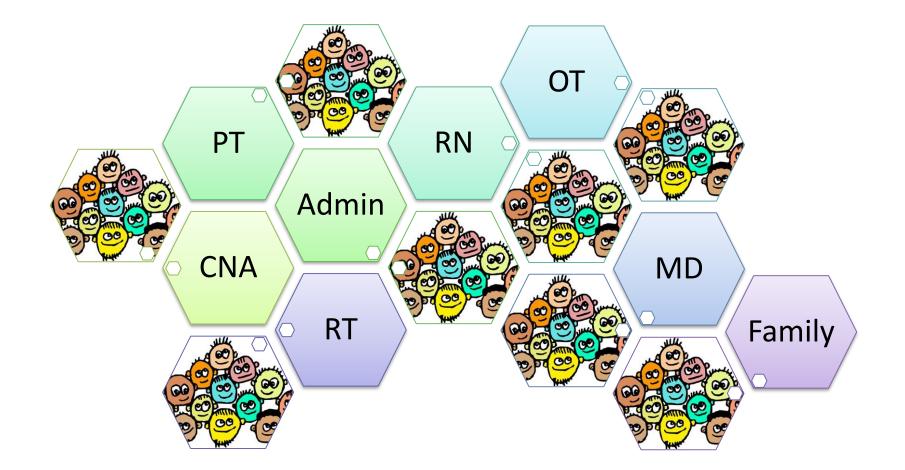


Vollman, KM. Introduction to Progressive Mobility. Crit Care Nurs. 2010;30(2):53-55.



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### **TEAMING UP TO MOBILIZE**









## **MUST DO's**









## **GET-UP MUST DO'S!**

- 1. Walk in, walk during, walk out!
- 2. Grab and go mobility devices.
- 3. Three laps a day keeps the nursing home away!





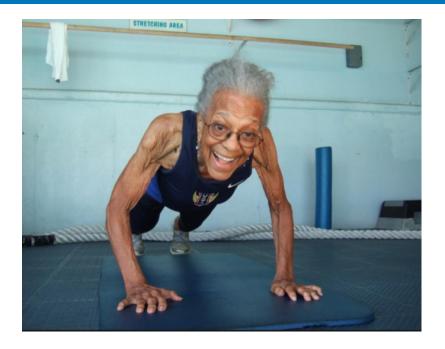
#### MUST DO #1 Walk In, Walk During, Walk Out!







#### MUST DO #1 Walk In, Walk During, Walk Out!





- Determine pre admission ambulation status
- Don't assume a frail appearance means weakness
- Use Get Up and Go test to assess ambulation skills





# **Mobility begins on admission**

Tier Level	Defining Characteristics	Intervention <sup>a</sup>
Tier 1: Nonambulatory	<ul> <li>Patients who</li> <li>require more than a one-person assist for ambulation/transfers</li> <li>are unable to maintain weight on their lower extremities</li> <li>require any form of lift equipment</li> </ul>	Active range-of-motion exercises: • ankle pumps • heel slides • hip abduction • quad sets • shoulder flexion Passive range-of-motion exercises: • ankle dorsiflexion • hip flexion • hip abduction • hip abduction • shoulder flexion Sit on side of bed Get out of bed and into a chair with appropriate equipment
Tier 2: Ambulatory	Patients who • are able to ambulate independently • require a one-person assist with ambulation	Ambulate with or without assistance in the hallway as tolerated Get out of bed and into a chair for all meals

<sup>a</sup> To be performed three times a day (in accordance with a patient's ability).

Wood W, et al. (2014) A Mobility Program for an Inpatient Acute Care Medical Unit.

http://www.nursingcenter.com/pdfjournal?AID=2591440&an=00000446-201410000-00023&Journal ID=54030&Issue ID=2591321





#### MUST DO #2 Grab and Go Mobility Devices!

- Gait Belts in every room\*
- Patients and staff have access to mobility devices
- Safe mobilization and patient handling training for staff

Gait belts are used to help control the patient's center of balance.





\*with the exception of rooms for behavioral health patients



#### MUST DO #3 3 Laps a Day, Keeps the Nursing Home Away!







### **Facing the Facts about Mobility**

#### Mobility interventions are regularly missed

- Nursing perceptions
  - Lack of time
  - Ease of omission
  - Belief it is PTs responsibility
- Survey results

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- Concern for patients level of weakness, pain and fatigue
- Presence of devices IVs and Urinary Catheters
- Lack of staff to assist

Doherty-King, B Bowers, B. How nurses decide to ambulate hospitalized older adults: development of a conceptual model. Gerontologist. 2011 Dec:51(6): 786-97



# **Tips for Promoting Mobility**

#### Order Modifications

- Delete orders for
  - Bedrest
  - Ad lib
- Replace with specific orders
  - Times, activities, distance

#### Promote Team Mobility Management

- Delegation of patient mobility
  - Replace sitters with a mobility aide
- Rehab and Nursing face-to-face bedside handoffs
  - Document plans and progress on white boards



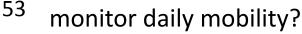
#### GET UP Success, Barriers & Help

#### Must Do's

- Walk in, walk during, walk out!
- Grab and go mobility devices.
- Three laps a day keeps the nursing home away!

#### **Next Steps**

- ✓ Do you have a mobility team?
- ✓ Do you have a mobility protocol?
- ✓ Have you clearly identified staff that have the capacity to ambulate patients daily?
- ✓ Do your nurses or rehabilitation/physical therapists evaluate each patient's mobility status upon admission?
- Is mobility equipment readily available for nurses and patients to access? (canes, walkers, lifting and safe patient handling devices, gait belts)
- Do you have a way to document and







#### **# 3 Hand Hygiene**



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### Hand-washing an OLD intervention

- Since 1847 we have understood that hand hygiene (HH) makes a difference in the spread of infections
  - Dr. Ignaz Semmelweis in Vienna Childbed fever
  - Dr. Lister Operating Room
  - 1980's concepts of hand hygiene in health care emerged
  - 2002 alcohol based hand rub adopted
  - 2007-2008 WHO Global clean hands initiative
- Yet the average HH compliance is 48%

https://www.cdc.gov





# We need to get it right!

- Protect our patients from HAI by performing HH.
- Promote patient and family engagementgive them permission to "speak up for clean hands."
- Promote patient HH for patients.





http://www.cdc.gov/handhygiene/patients/index.html



# **Polling Question**

 In our facility, if a nurse observes another nurse who forgets to perform hand hygiene, s/he will:

- Likely ignore it
- Say something to the nurse later on in the shift
- Speak up immediately to remind the nurse to perform hand hygiene





## **MUST DO's**







#### **SOAP-UP Must Do's -** beyond your current plan

1. Prompt Peer Performance

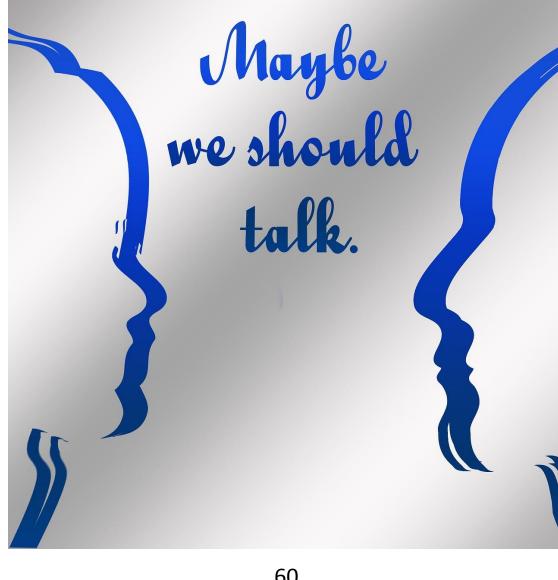
2. Track Quietly and Trend Loudly

#### 3. Drive Drift Down





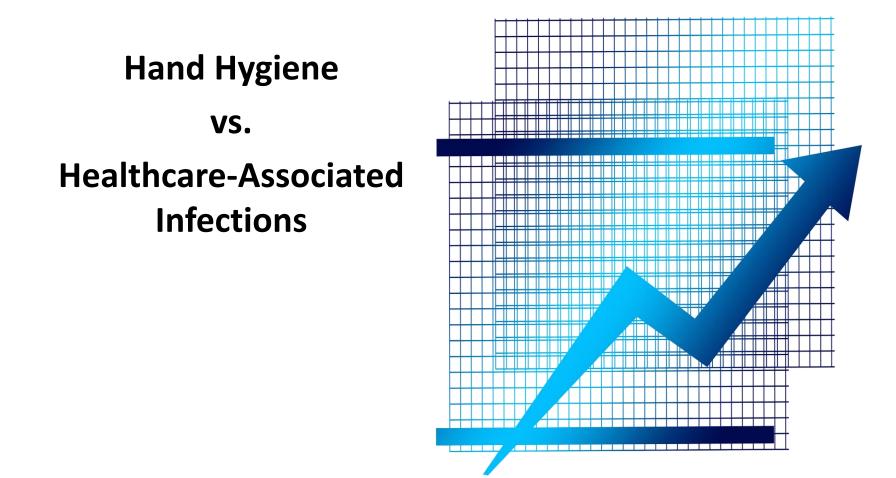
#### **MUST DO #1 Prompt Peer Performance**







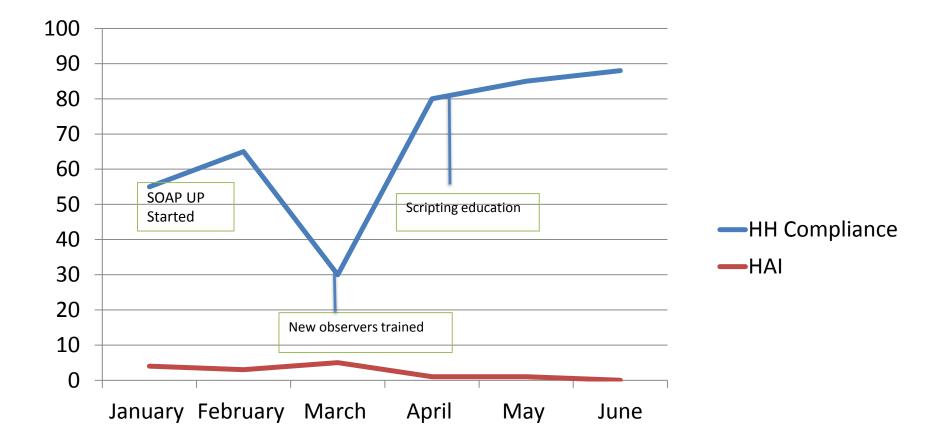
#### MUST DO #2 Track Quietly and Trend Loudly







## **Track Quietly and Trend Loudly**







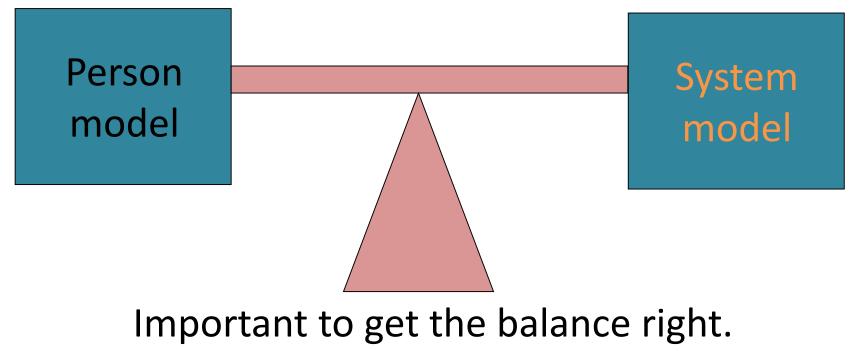
#### MUST DO #3 Drive Drift Down







## **The Right Balance**



Both extremes have their pitfalls.





## **Shared Accountability**

#### Instructions:

 Do not share with anyone that you are conducting the audit Observe all staff-nurses, physicians, RT's, housekeeping staff, etc. (see other side of form for Staff Codes) •Observe for 30 minutes. This may be broken up in small increments of time. OR, •Observe at least 15 staff members Unit/Department Date Time Indicate below what activity was observed and check the one box that applies to that activity PERSON ENTERED HAND HYGIENE DID YOU SEE PERSON EXITED DID YOU SEE PERSON EXITED THE **DID YOU SEE HIM/HER** THE ROOM FOR SUPPLIES (SOAP. **HIM/HER USE** THE ROOM AFTER **HIM/HER USE SOAP ROOM WITH GLOVES USE SOAP OR ALCOHOL** DIRECT CONTACT HAND SANITIZER, SOAP OR DIRECT CONTACT **OR ALCOHOL GEL ON AFTER DIRECT GEL AFTER REMOVING** WITH THE PATIENT **TOWELS) ARE** ALCOHOL GEL WITH THE PATIENT WHEN EXITING THE CONTACT WITH THE **GLOVES?** OR ENVIRONMENT ADEQUATE WHEN ENTERING **OR ENVIRONMENT** ROOM? PATIENT OR THE ROOM? **ENVIRONMENT** Enter Staff Code Yes No Enter Staff Code Enter Staff Code Yes No Yes Yes No No 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. Total # of Staff Total Total Total # of Staff Total Total Total # of Staff Total Total Total Observed Observed Observed

Adapted with permission from Stanford Health Care, Palo Alto, CA







## What Works?

- Observation and surveillance of hand hygiene is the best way to ensure appropriate compliance.
- Schedule an unscheduled observation by trained observers.
- Intervene immediately if a breach in HH is observed.
- Provide scripts for reminding peers to perform HH.
- Promote culture of safety .







#### SOAP UP Success, Barriers & Help

#### Must Do's

1. Prompt Peer Performance

2. Track Quietly and Trend Loudly

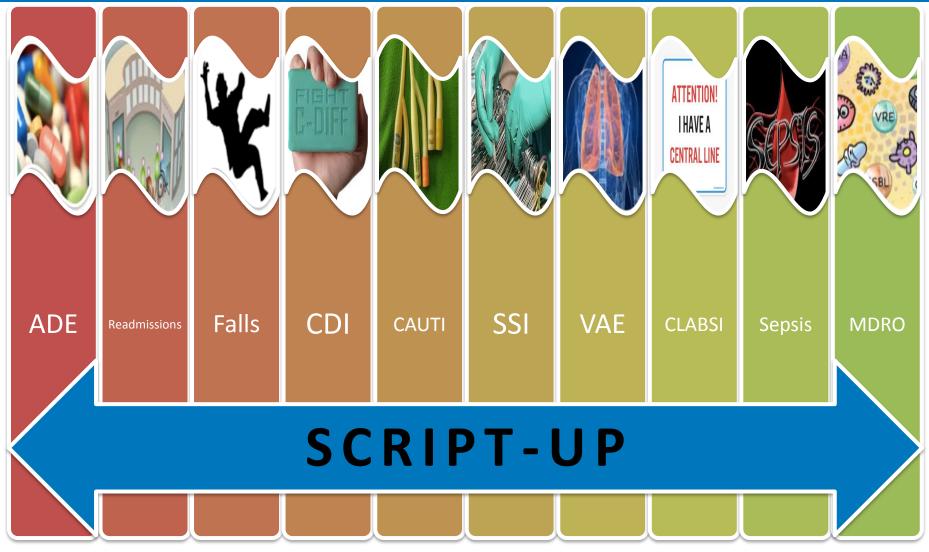
3. Drive Drift Down

#### **Next Steps**

- ✓ Do you display hand hygiene (HH) compliance results in highly visible places at the department/unit level?
- Have you implemented scripting to remind other team members to perform HH when it is not observed?
- ✓ Do you have a system in place that holds all team members accountable to the HH expectations?



#### **#4 Optimize Medications**





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## **Polling Question**

• In my facility, Antibiotic Stewardship is:

- Firing on all cylinders
- Just getting started
- Gaining traction
- Not a priority due to resource limitations





## Why It Matters

- Adverse drug events are the most common cause of harm (AHRQ)
- Overuse and inappropriate use of antibiotics is the key cause of antibiotic resistance (CDC)
- Beers Criteria Medications are linked to poor health outcomes, including confusion, falls, and mortality (Am. Geriatric Society)
- Risk of ADEs almost doubles with <u>></u> 5 meds (Bourgeois, Shannon et al, 2010)





## **MUST DO's**









### SCRIPT UP- MUST DO's

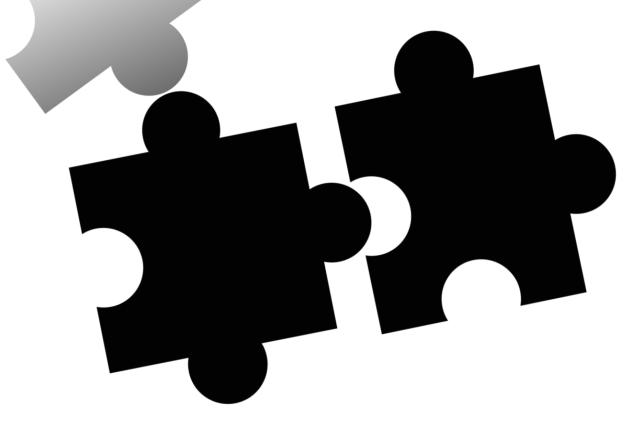
- 1. Match the drug to the bug
- 2. Follow Beers if they're up in years
- 3. Use appropriate meds -- Less may be more
  - Ask if patient needs any medication changes





### Must Do #1 Match the Bug to the Drug

- Implement antibiotic time outs at 48 or 72 hours to de-escalate and modify therapy
- Verify the presence of a bacterial or fungal infection



HEALTH RESEARCH &



## **One Idea**

				Antibi	otic Tr	rackir	ng	Sheet		
Patient Background:				Known MDRO Risk Factors (check all that apply)						
Patient Name:				Antibiotic bx within last 90 days Chronic Dialysis within last 30 days						is within last 30 days
Rm#: Age: Gender: M / F			Hos	pitalization of	≥ 2 days w	last 90 days	Home Infusion/Wound Care			
Admit Dele: MRN:				F Resident				Family Member with MDRO		
Antibiotic Al	lergies/Reac	tion:		□ 0th	er					
Antibio	tics									
Today's		tic Name	Start Date of Therapy		Indianti		вс	1.00	ropriateness	IV to PO Swite
Date	/D	/Dose		FISCIDE	Indication	on w	вс	App	ropriateness	IV to PO Swite
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Culture	s									
Today's D	ate	Specimen			ulture & S	ensitiviti	88		Comments & Plan	
Provide	r Conta	cted								
Date	Resul	t								

- Pharmacists focus review on patients with a fluoroquinolone order ≥ 48 hours if cultures are back
  - ✓ Review 7-10 patients daily
  - ✓ ~50% require intervention
- Antibiotic monitoring form is completed by pharmacists
- Recommendations made during interdisciplinary rounds or by phone call





# **Getting Started**

- Decide what antibiotic to target by considering:
  - Potential risk
  - Volume used
  - High cost
- Set up a review process
- Monitor your results
- Spread to other antibiotics when you can

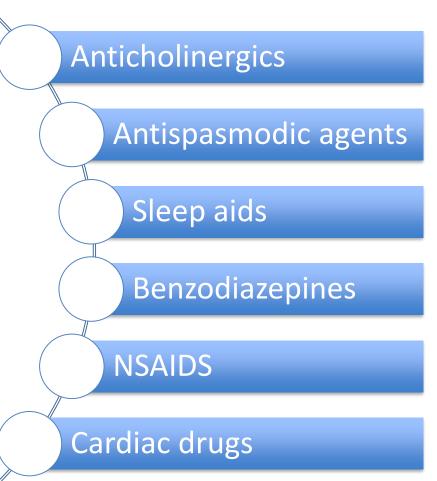






## Must Do #2: Follow Beers, if they're up in years

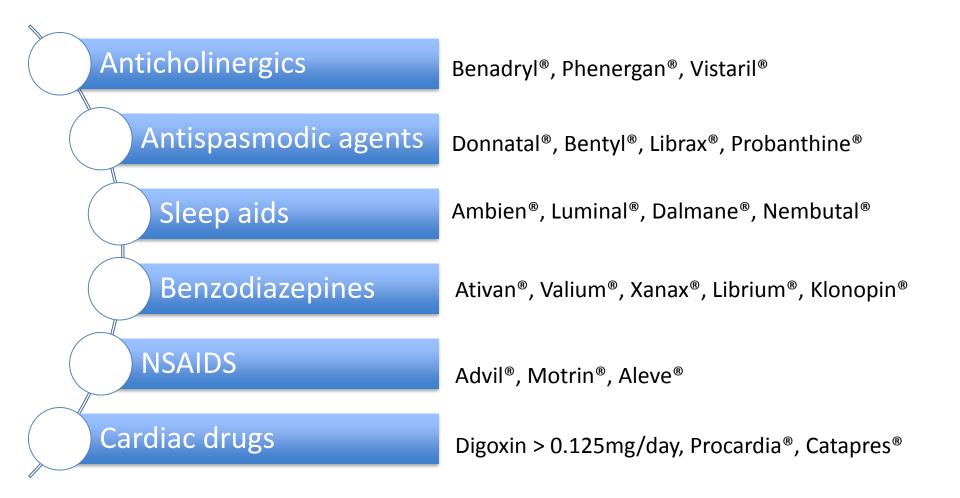
- Flag, stop and replace medications on the Beers list
- If needed, switch to a safer agent
- If not needed, discontinue medication







## Medications to avoid in those over 65yrs







# **Provide Alternatives**

Drug Class	Preferred Alternative	Special dosing considerations for the elderly
Benzodiazepines	<ul> <li>For insomnia:         <ul> <li>emphasize sleep hygiene</li> <li>treat for underlying disrupters</li> <li>evaluate timing of other medications and alcohol</li> </ul> </li> <li>For chronic anxiety:         <ul> <li>consider buspirone or SSRIs or SNIRs</li> <li>consider psych referral</li> </ul> </li> </ul>	<ul> <li>Risk of fall doubled if used more than 14 days</li> </ul>
Pain Medications		Avoid meperidine





# **Provide Alternatives**

Drug Class	Preferred Alternative	Special dosing considerations for the elderly
Cardiovascular agents	<ul> <li>For HTN alone</li> <li>ACE inhibitors, betablockers, or calcium channel blockers preferred</li> </ul>	Most significant risk is orthostatic hypotension Monitor closely and educate patient Slowly increase to full dose
Skeletal muscle relaxants		Monitor length of use and discontinue as soon as no longer indicated; recommended for short use only



Help your physicians by providing guidelines about alternatives and any special dosing or monitoring considerations.



### Must Do #3 Use appropriate meds -- less may be more

- Consider shortening med lists, especially PRN medications
  - When adding a med, ask
     "What can I discontinue?"







# Why Less May Be Better

- There is no set number of medications defining polypharmacy – The CDC uses 6
- Concerns
  - Increased ADE
  - Increased drug interactions
  - Increased costs
  - Prescribing cascade
- Associated with
  - Decreased quality of life, mobility and cognition







#### Script UP Success, Barriers & Help

#### Must Do's

- 1. Match the drug to the bug
- 2. Follow Beers if they're up in years
- Use appropriate meds --Less may be more
  - Ask if patient needs any medication changes

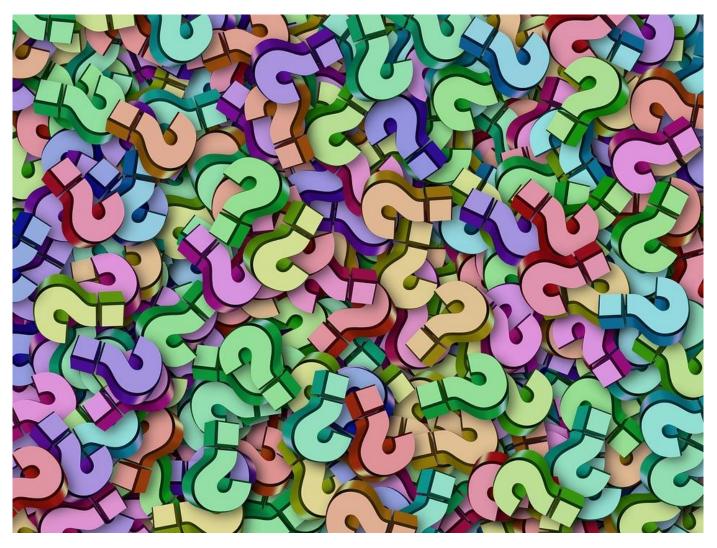
#### **Next Steps**

- ✓ Have you implemented a "time out" after 24-48 hours of antibiotic therapy to re-assess and optimize therapy?
- ✓ Do the staff, providers, and pharmacists have ready access to reminders and alerts to avoid medications on the Beers list for patients over 65 years old?
- ✓ Is there a specific number of medications on a patient's medication list (e.g., 10) that will trigger a review by a pharmacist?





## Summary & Discussion







## Reminders

- Complete the post-webinar
   Survey Monkey that will be sent to you via email:
  - Must have participated on the webinar for a minimum of 50 minutes
  - Required to complete survey to earn 1 CE credit
  - CE certificates will be issued to you via email within one week







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