WASHH - Wireless Assessment of Systematic Hand Hygiene: A Pilot Study

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Goal

- . Evaluate Hand Washing Compliance System
- Target of 90% Average Team Member Compliance in System

Hand hygiene is the simplest, most effective measure for preventing healthcare-associated infections and mitigating risk of transmission of harmful germs. (Centers for Disease Control and Prevention, WH-O)

Implementation

Bethesda North Hospital, MSICU CVICU PCU Units



Bed Beacon • Sensor attached to patient bed

- Detects Badged team members within a specific radius of patient bed
- Dispenser
- Sensor attached to Soap and Sanitize Dispensers Detects when a dispenser is used and if used by Badged team member

Employee Badge

Sensor attached to team members' Badges Defects when team member enters room, approaches dispenser or patient bed

Cloud Platform

MSICU performed 65% of Nurses performed 72% of all hand hyglene events (58,003) with 74%

After System Installation

Doubled hand hyglene compliance % after system installation

80% increase in soap and sanifize dispenser usage

Missed

Opportunities

Feedback

Results

Overall

Compliance %

Positive

- Reports for Individual, unit, and role
 Increased awareness of hand-washi
 importance and compliance
 Customizable reporting

Dispenses

Per Day

- Room For Improvement

 Staff perception "Big Brother," offensive, intrusive
 Bulls / heavy / disruptive badge to wear
 Confusion of badge light colors
 Inflexible system parameters

Recommendation

A different Hand Hygiene System will soon begin a pilot program for comparison to these results and feedback!





Intensive Tobacco Cessation Counseling at the Point of Care

Stephen Zitelli MD, Elizabeth Browning DO, Michael Bruner MA, Angela N Fellner PhD CCRP, June Phelps

Background

- Patient Centered Medical Home (PCMH) requires practices to provide patients with self-management support and assistance with health behavior change
- Tobacco abuse remains disproportionately prevalent among patients of low socioeconomic status served by our office (1)
- Previous efforts at Bethesda Family Practice (BFP) directed at smoking cessation were held in group sessions outside of regular office hours, and were poorly attended
 • Poor attendance led to inefficient staff
- and physician utilization rates
 Residents had reviewed educational
- sessions in motivational interviewing poorly



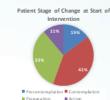
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- · Increase patient access to intensive tobacco cessation counseling
- Assess feasibility of point-of-care counseling interventions during office
- Educate residents in patient-centered interviewing techniques and motivational interviewing

- Curriculum and educational resources created with help of behavioral health consultants (2)
- Patients being seen for medical appointments were offered a dedicated tobacco cessation intervention by another resident participating in the project
- A patient-centered interview was preformed free from other responsibilities beyond those related to tobacco cessation

Study

- 28 patients reached during study period
- Variables including desire to smoke, barriers to quitting, benefits to quitting, and other factors were tracked in a spreadsheet



- Average packs per day smoked were 0.72
 Average time of intervention was 17
 - Age range of participants was 15-66 years
- · Almost ¾ of patients were in Contemplation or Action stages at start of intervention

Findings

 Phone call follow up at 3 months reached 23/28 (82%) patients who had initial intervention



- 65% demonstrated positive change:
- 17% quit smoking (4/23) and
 48% reduced smoking by an a
 5 cigarettes per day
- Successful patients noted environmental changes, replacement of nicotine with alternatives, and
- 26% experienced no change
 - Barriers to change included stress, habit/addiction, and enjoyment of
- smoking
 9% regressed to an earlier Stage of Change

Office and Education

- 9x more patients reached in this format than prior intervention (28 vs 3)
- Scheduled clinician time per patient reached improved substantially (4 → 1.2 hours/patient)
- Well received by patients; even those who did not stop smoking felt it was valuable
- Resident feedback was uniformly positive

<u>A</u>ct

- Refine process to address pain points
 - Improve resident educational material presentation
 - Consider how to schedule formal patient follow-up sessions Pre-visit plan to identify smokers
- before office visit
- Continue what works o Introduce and extend intervention to
 - IM residency
 Find other opportunities for in situlearning and application
 Keep moving patients towards a
 tobacco-free lifestyle



References

- Data USA Hamilton County. https://datausa.io/profile/geo/hamilton-
- county-oh/#health
 VA Smoking Cessation Handbook.
 http://www.publichealth.va.gov/smoking/
 professionals/tools-publications.asp
- Hamilton County Statistics. http://www.healthdata.org

CENS II – CORTAK® for Early Nutrition and Cost Savings in the ICU: A Quality Improvement Project

Scott T McCardle MD, Denise Krabbe MSN RN CNL CCRN, Jocelyn LaMar BS MBA, William Judd MBA | Cincinnati, OH

Introduction Background

- Providers in the ICU have noticed a long waiting period between feeding tube insertion and confirmation via x-ray.
- inefficient and presents a certain level of risk.
- We have a need to efficient administration of medication and nutrition. This extremely significant in critically ill patients.
- Sufficient nutrition lowers mortality rates, decreases length of stay, and improves overall clinical outcomes as noted by multiple research studies.

Study Description Primary Objective

 Decrease overall time needed to order, place, confirm, and use NG tubes

Second Objective

 Evaluate clinician satisfaction The blind placement of NG tubes is procedurally rates related to training, ease of use, process efficiency, and confidence of placement.

Tertiary Objective

- Decrease cost to the hospital Patient Population
- Male and Female Patients >18 years old in the Bethesda North ICU.
 - Order to place NG Tube placed.

What is CORTRAK®?

- A medical device that provides real-time and anatomically accurate imaging as an NG tube is placed.
- Provides instant confirmation on NG tube placement and proper positioning.

Results

Reduced Timeframes

- . On average, two X-Rays are needed to ensure proper placement NG Tubes
- . CORTRAK® eliminates the time interval needed for X-ray confirmation ensuring the tube can be used instantly if needed due to real-time confirmation.

Reduced Adverse Events

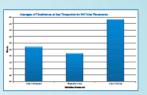
• 21 total AEs were noted as part of the quality improvement project, however; none were directly associated with the CORTRAK® device or, required additional monitoring/intervention.

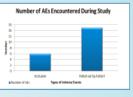
Reduced Cost

 Tubes pulled out by patients can be replaced using the device instead of a new tube being inserted.

Other Benefits

- Reduced logistical burden for imaging team members,
- Reduced radiation exposure,
- Increased comfort for patients,
- Increased confidence for providers.











String Music as an Adjunct for Pain Control and Patient Experience: A Pilot Study

Jonathan Borden MD, Jocelyn LaMar BS, MBA| Cincinnati, OH

Study Description

- We hypothesized that live string music would have a greater impact than recorded music on the following during their hospital stay at Bethesde North Hospital

- All orthopedic surgery and neurosurgery patients of TriHealth, physicians admitted to 6300T
- Block randomization based on day of surgery

Important Distinctions

- Music sessions lasted approximately 20 minutes
- Patients randomized to live music were transported from their hospital rooms to the physical therapy room on 6300
- Live music was performed by students from the College-Conservatory of Music (UC-CCM) at the University of Cincinnati
- Recorded music sessions took place in patient rooms





Data Collection

- Administered to Live & Recorded Music Groups

Demographics			
Measure	Live Music Group	Recorded Music Group	Control Group
Age, years (mean)	65.5	65.6	67.7
Gender (N., ratio)	10 male 10 female 1:1	Scrale 11 ferrale 1:0.0	5 male 15 female 1:3
Type of Surgery (N, %) Neurosurgery (neck, spine) Knee replacement Hip replacement Shoulder replacement	8(20) 11 (55) 5 (25) 0(0)	6 (30) 7 (35) 6 (30) 1 (5)	6 (30) 7 (35) 6 (30) 0 (0)
Surgeon (N, %) Rorden Thomas Minisposites	8 (20) 9 (45) 7 (35)	\$ (30) to (50) # (20)	5 (25) 12 (60) 3 (15)
Time from last pain medication to music therapy session, hours (mean)	2.9	1.70	1.45
Baseline pain scow, 0-10 scale (record)	3.15	2.09	4.80
Disseline arcstety score, 0-21 scale (meson)	6.90	7.43	8.65

Acknowledgements

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 UC-CCM musicians led by Timothy Lees & Catherine Carrol Lees DMA
 Surgeons Joseph Thomas MD & Nikolas Mirkopoulos MD
- Team members on 6300T
- Pre-operative nursing team and unit clerks in Same Day Surgery
 Tri-Health Hatton Research team members





Study Results



Subjective Feedback

- "I feel relaxed, worm and much happier, it distracted me from feeling anxion about the hospital. It was a very pleasant feeling."

 "I get to see young musicians, they're fantastic, it was well worth IET like it, keep on doing IET hank you for bringing this to the hospital?

 Gets me out of norm tor a writing different than the normal hospital experiency our can hospit with than happoned for a writine, this were farefasted.

Conclusion

- ed a decrease in both pain and anxiety in th



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