

EHSSENTIALS 2017

Environmental, Health & Safety Symposium for Healthcare

APRIL 28, 2017
The University of Texas
MD Anderson Cancer Center
Houston, Texas



PRESENTED BY











Proven Best Practices and Strategies for Injury Reduction

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Agenda

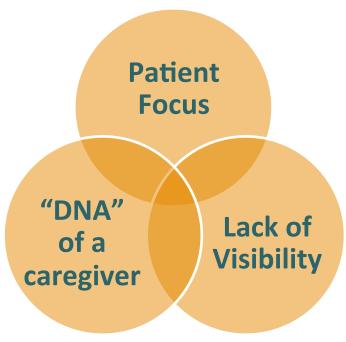
- The challenge
- Elements of best in class injury prevention programs
- Case studies



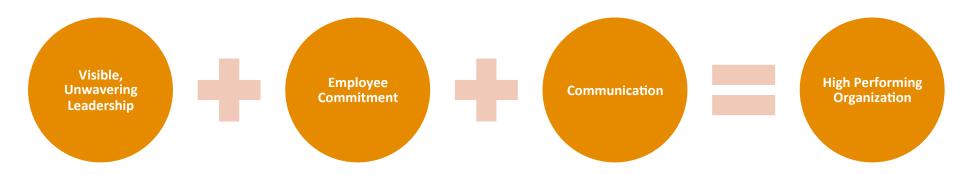
Healthcare Worker Exposures







Recipe for Success



The Role of the Leader

Building Relationships

Commitment and **Concern**

Employee Engagement

Consistent Follow up

Visible Decisions with Foundation of Safety

Building Blocks



Holding the Blocks Together



Case Studies

Linen Handling – EVS



Patient Mobilization –
 Step-down ICU



Linen Handling Injury Reduction

- Linen handling in Environmental Services
 - Heavy bag weights (up to 50lb)
 - Repetitive lifting
 - Awkward loads
 - Lifting from below knee height
 - High forces when pushing/pulling/ steering carts
 - Clogged laundry chutes
- 30% of EVS injuries were related to linen handling



Linen Handling: Process Review and Risk

Assessment

- Leadership Kick-off
- Process mapping exercise (employee engagement)
- Data analysis
- Task force development
 - Bag weight
 - Linen chute management











Pinched fingers in lids

Lifting bags

Sharps / BBF Bending and Reaching

Call supervisor for help





Linen Handling: Corrective Actions

- Switched to smaller bags decreased weight from 40 lbs to 18 lbs
- Additional staff for high turnover times
- Linen chute maintenance and management
- Staff empowerment
- Nursing partnership and education

Description of Current or Proposed Task PATIENT UNITS	Frequency of Lift	Recommended Weight Limit (lbs)	Actual Weight of Bags (lbs)	Ergonomic Risk (LI)
Current process in units, assuming one lift	0.3 lifts/min.	18	32	1.6
per bag for first hour				
Current process in units, assuming two	0.6 lifts/min.	17.4	32	1.6
lifts per bag for first hour				
Current process in units, assuming one lift per bag for remaining 6 hours	0.17 lifts/min.	18	32	1.6
Current process in units, assuming two lifts per bag for remaining 6 hours	0.3 lifts/min.	18	32	1.6
New process to have one person dedicated to moving 200 bags per day	0.8 lifts/min.	14.6	32	2.0
New process to have two people dedicated to moving 200 bags per day	0.4 lifts/min.	18	32	1.6
New process of reduced bag weight and lifting 1.5 times the number of bags(due to the reduction in bag size), assuming two lifts per bag for the first hour	0.9 lifts/min	17.4	20	1.0
New process of reduced bag weight and lifting 1.5 times the number of bags, assuming two lifts per bag for next 6 hours	0.5 lifts/min	18	20	1.2
New process of reduced bag weight and lifting 1.5 times the number of bags with one person dedicated to moving 300 bags per day	1.25 lifts/min	13.5	20	1.3
New process of reduced bag weight and lifting 1.5 times the number of bags with two people dedicated to moving 300 bags per day	0.6 lifts/min	14.6	20	1.2

Assessment completed: April 2016 by Jessica Ellison, M.S., CPE, CSP

Linen Handling: Results



Increased reporting of near misses
Employee engagement in solution

83% Reduction in linen handling injuries
44% Reduction in cost of injuries

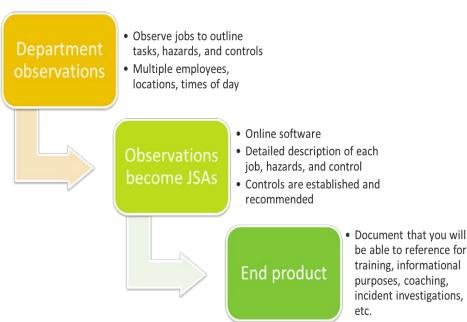
Patient Mobilization Injury Reduction: Step-down ICU

- Department TCIR of 11.5
- Significant morale and staffing issues
- Risks included repositioning and moving patients with limited mobility

Patient Mobilization Risk Assessment and

Process Review

- Leadership kick-off
- JHAs
- Root Cause Analysis
 Exercise
- Brainstorming session



Patient Mobilization Corrective Actions

- SPH Equipment located in every room
- Process alignment with OR and ICU
- Staff training
- Contests



Patient Mobilization Results

- 100% reduction in patient mobilization injuries
- Continued focus on risk identification
- Several awards for their performance



