

Michigan Health Care Safety Association

2018 Fall Conference

November 1, 2018
St. Mary Mercy Hospital - Livonia, Michigan

“Walk Like a Duck”

Presented by
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&
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MIOSHA Strategic Goals FY 2014-2018

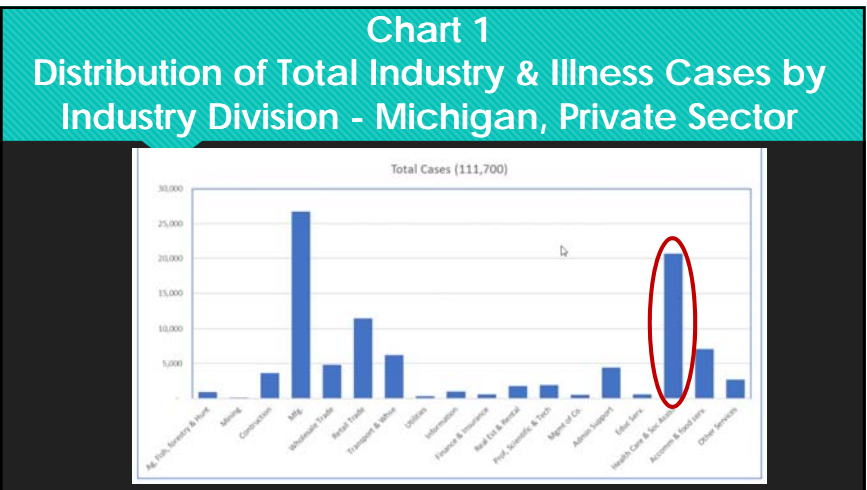
High Hazard Industries:

- Beverage and Tobacco Product Mfg.
- Primary Metal Mfg.
- Fabricated and Metal Product Mfg.
- Machinery Mfg.
- Warehousing and Storage
- Nursing and Residential Care Facilities
- **Hospitals**
- Accommodations
- Transportation Equipment Mfg.
- Support Activities for Transportation

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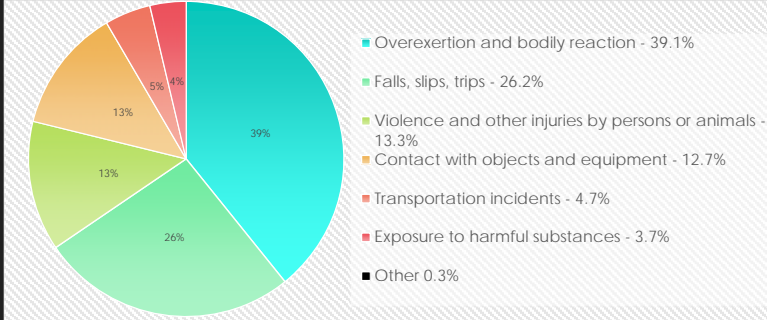
Michigan 2016 Nonfatal Occupational Injuries and Illnesses Incidence Rates (per 100 Full-time Workers)

	Total Recordable Cases	Cases with Days Away, Transfer or Restriction	Other Recordable Cases
All Industries (Private Sector)	3.3	1.6	1.7
Hospitals	6.6	2.4	4.2
Hospitals for 2014	7.0	2.8	4.8

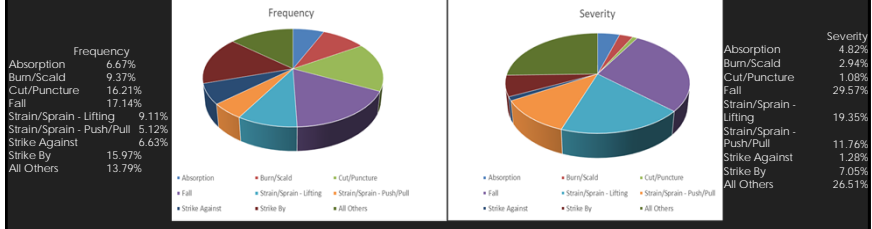


Causes of Injury and Illness in Education and Health Services – By Event or Exposure

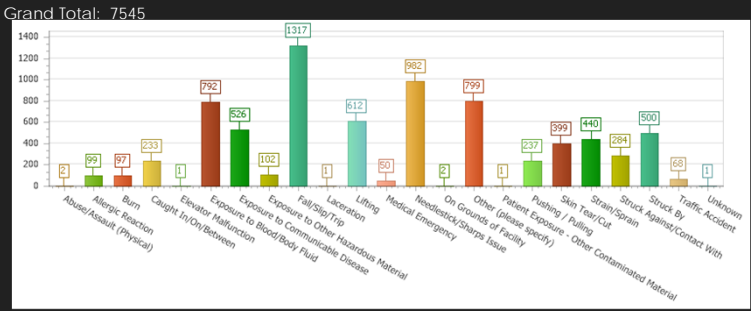
Bureau of Labor Statistics: 2016 Nonfatal injuries and illnesses involving days away from work - Education and Health Services



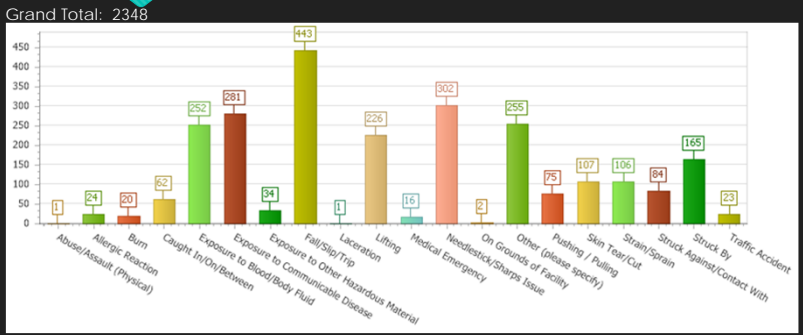
Top Causes of Injury Frequency Severity Losses from 10-1-14 – 9-30-17



Employee Incidents by Specific Event Type - All Dates



Employee Incidents by Specific Event Type Event Date is within Fiscal 2016/17



Gather Your Resources

- Static Coefficient of Friction (SCOF) is the measurement of the slippage between the sole of the shoes and the flooring surface.
 - UL and ASTM recommend a SCOF of 0.50
 - OSHA requires 0.50
 - ADA calls for 0.60 for flat surfaces
0.80 for inclines
 - Snow & Ice Remover Charts
 - Foot candle charts

ICE-MELT COMPARISON

Effective Temp	Applied Snow/ Ice	Best for	Benefits	Precautions
-25° F	Minimal to moderate	Thaw in a few hours	More effective than calcium chloride Fast acting	Can damage grass and plants overnight
20° F	Moderate	Contractors	Environmentally friendly Less corrosive than chloride products	Can damage concrete
-15° F	Moderate to significant	Pet owners Gardners Thaw in a few hours	Environmentally friendly Safer around pets More effective than sodium	Can damage plants when overapplied Lethal to pets that suffer from kidney disease if ingested
25° F	Minimal to moderate	Pet owners Gardners	Environmentally friendly Safer around pets	Can damage grass and plants when overapplied Lethal to pets that suffer from kidney disease if ingested
30° F	Minimal to moderate	Begins melting	Inexpensive	Can damage asphalt, concrete, brick, stone, metal, cars, plants, and road seals. Lethal to pets if ingested
10° F, better at 20° to 30° F	Minimal (around roadways)	Pet owners Gardners	Environmentally friendly Safer around pets	Can damage plants when overapplied Not very effective as deicer

*Price per 50-lb. bag
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Table 8 Illumination of Health Care Facilities

The following tables are intended to be representative, not inclusive of all clinical facilities. These measured minimum foot candle (fc) values shall be provided at 30 inches above the floor or at task locations as applicable and shall account for bulb and fixture depreciation.

One-half (1/2) of the lighting levels shall be maintained in Operating Rooms, Delivery Rooms, Trauma Rooms and Emergency Department Exam Rooms, Nursing Stations, Intensive Care Rooms, Special Care Nurseries, Full Term Nurseries, Angiography Labs, Interventional Radiology Rooms, Cardiac Catheterization Labs, Resuscitation Areas, PACU, Patient Holding Areas, Medication Preparation and Dispensing Areas, and work areas within the Laboratory, when on Emergency Power. These levels are not required during the (10 seconds max) transfer to Emergency Power.

Operating/Delivery/Trauma Rooms ¹	150 fc
Critical Task Areas	75 fc
General Areas	15 fc

Specialized Task Areas 50 fc

Task Areas 30 fc

General Areas 15 fc

Illumination of Health Care Facilities (Continued)

Specialized Task Areas

- Food service work counter
- Medication preparation and dispensing locations
- Nurse, Physician and Clinician (paper) charting locations
- Laboratories
- Triage areas
- Hot Lab task locations
- Dialysis Patient Locations

Task Areas

- Patient care bed, stretcher, table, and chair locations (non-exam)
- Handwashing, water closets, and tub/shower
- Staff work counter
- Patient and resident day-living rooms
- Private and resident reading locations
- Patient Preparation and holding areas
- General Radiology Rooms, MRI, PET, CT, and Laboratory
- Storage

General Areas

- Corridors²
- General patient and resident room/location
- Clean and well-ventilated rooms (see above for work counters)
- Clinical storage/holding
- Lobby areas
- Lobby elevators
- Stairways, elevators, waiting rooms

¹Fixed task lighting (shall be an emergency power)
²Task lighting consistent with 7.3.2.2.1
 At least 5 fc of illumination shall be provided for night lighting.

It is recommended that 5 fc of illumination be provided in operating, delivery, and trauma rooms during transfer to emergency power.

Notes that the above requirements are unaltered during dimming and certification inspections.

Health Care lighting levels may be exempt from the Energy Code. However, it is prudent to evaluate the facility lighting plan as part of an overall energy conservation program.

Codes of options are permitted to allow for partial illumination levels to accommodate user preferences.

Footcandle Light Guide

FOOTCANDLE LIGHT GUIDE

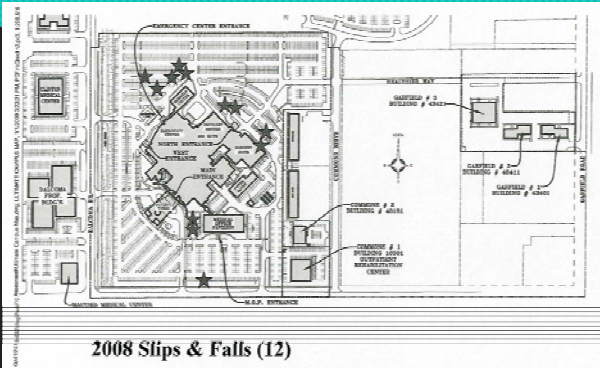
Download and use the most current set of documents and the lighting guidelines to calculate light levels in hospitals and other spaces. It includes a glossary of footcandle and lux, a calculator for footcandle and lux, and a list of footcandle and lux values for various spaces. The guide also includes a list of footcandle and lux values for various spaces.

Space	Footcandle	Lux
Operating Room	150	1600
Delivery Room	150	1600
Trauma Room	150	1600
Emergency Department Exam Room	150	1600
Nursing Station	15	160
Intensive Care Room	15	160
Special Care Nursery	15	160
Full Term Nursery	15	160
Angiography Lab	15	160
Interventional Radiology Room	15	160
Cardiac Catheterization Lab	15	160
Resuscitation Area	15	160
PACU	15	160
General Radiology Room	15	160
MRI	15	160
PET	15	160
CT	15	160
Laboratory	15	160
Storage	15	160
Corridor	5	50
General Patient Room	15	160
Clean and Well-Ventilated Room	15	160
Clinical Storage/holding	15	160
Lobby Area	5	50
Lobby Elevator	5	50
Stairway	5	50
Elevator	5	50
Waiting Room	5	50

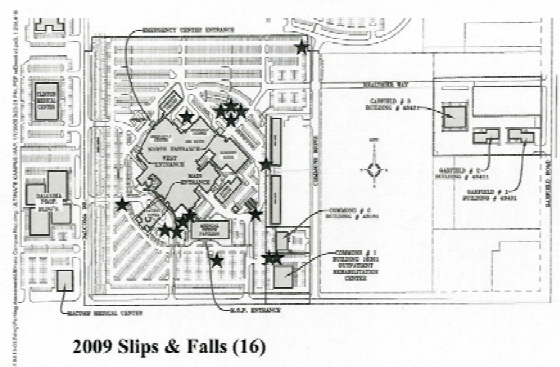
Examine the Problem

- Conduct Injury Data Analysis for patients, visitors and employees
- Investigate actual Injury Incidents for prevention opportunities
- Conduct Employee Engagement Feedback Surveys or Sessions for prevention opportunities

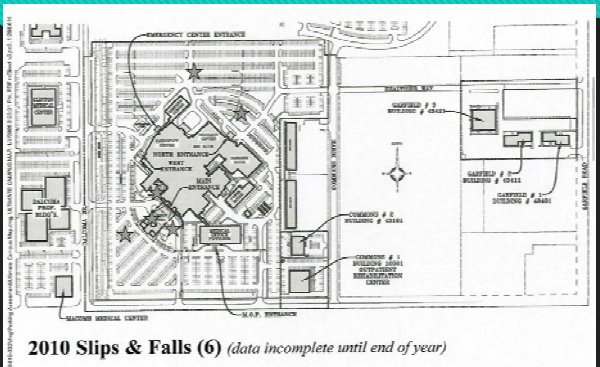
Slip & Fall Mapping



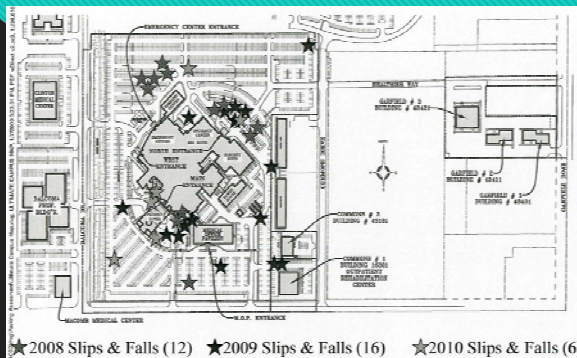
Slip & Fall Mapping



Slip & Fall Mapping



Slip & Fall Mapping



Improve Physical Hazards

- Clean and repair the walking surfaces
- Snow and Ice Plan & products
- Floor care products with SCOF of at least 0.50
- Evaluate high risk areas
- Control/eliminate floor clutter
- Evaluate/install/paint visual cues
- Buckets of Ice Melt at entrances
- Survey carpets for torn, bubbled or stringy areas

Improve Physical Hazards (cont'd)

- Robust WET FLOOR Sign Program
- Consider entrance umbrella bags
- Spill Prevention Kits in Housekeeping Closets
- Strong walk-off mat program – cleaning & replacement
- Do not leave desk or file cabinet drawers open
- Do not obstruct view of walking surface with carrying objects
- Provide coffee cup lids

Improve Physical Hazards (cont'd)

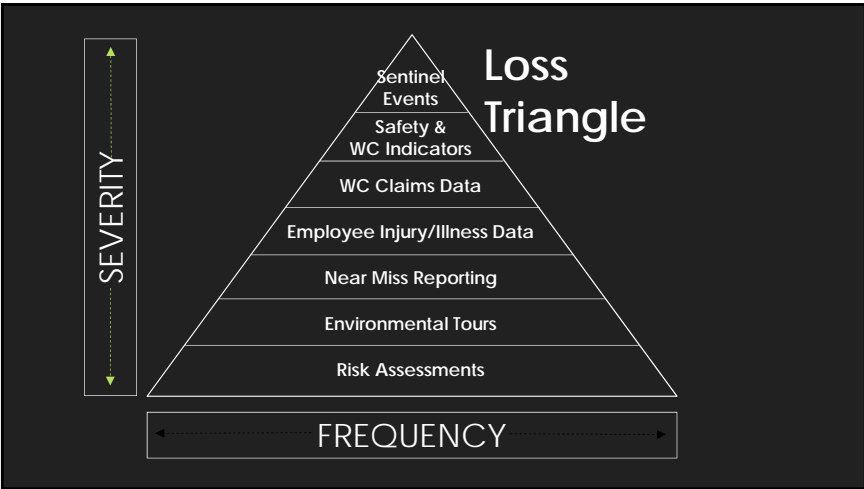
- Footcandle Survey for appropriate levels of illumination
- Electrical, Data and Phone Cord Management
- Sidewalks have less than ½ inch difference in height
- Ladder Safety Program/do not use furniture
- Convex mirrors at corners

Consider Out-of-the-Box Ideas

- Pigeon Grit
- Yaktrax
- Employee Shoe Program
- "Wippity Dippity" Weather Warnings
- STAT Slip & Fall Hazard Response Protocol
- Slip, Trip & Fall Prevention Task Force

Motivate Employee Behavior

- Training & Education
- Leaders model good behavior
- Hold employees accountable for unsafe behaviors
- No texting and walking
- Slip, Trip & Fall Policy & Procedure
- Listen to your employees' ideas



Motivate Change

- Slip, Trip & Fall Prevention Tool Kit
- Slip, Trip & Fall Prevention Calendar
- Buttons
- Rubber Ducks

...And when all else fails...

Walk Like a Duck

