



Implementation

The How To and What For

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(Vanderbilt University)**

For sharing her slides and tools

Summary of the Law

- **Report Central Line Associated Bloodstream Infections in ICU patients**
- **Report SSI from CABG**
- **Be able to show to the state surveyors that you monitor hand hygiene**
- **Offer influenza vaccine free of charge, track vaccination rates and have a declination statement for those not taking vaccine**
- **Implement the Central line bundle**

The Devil is in the Details



- **Joining NHSN, training, digital certificates**
 - Does your ICP have IT support?
 - Does your IC have secretarial support?
- **Does your current Hand Hygiene program need upgrading?**
 - Do you monitor soap/gel usage?
 - Do you directly observe HCW?
- **Do you track influenza vaccination rates?**
 - Do you have a declination statement?
 - What is your annual training for influenza?
- **Have you implemented the central line bundle?**
 - Are you tracking compliance?



Putting it all together

- **Empower your ICP**
 - The Infection Control mantra should start at the top in the “C” suite
 - Remember: Infection Control is Everybody’s Business
- **Understand the value of your ICP**
 - Your ICP does more than surveillance
- **Make sure your ICP has enough support**
 - Technical computer support for NHSN
 - Manpower for computer entry, Hand Hygiene, and Influenza
 - Availability of CHG, large drapes, carts

Inputting Data into NHSN



- **Must have internet access**
- **Digital certificate is the most difficult IT problem to deal with in NHSN**
- **Newcomers – after training 5-10 minutes per sheet**
 - **Time shortens with each infection entered**
 - **May want to batch sheets and enter all at once**

Reporting BSI in NHSN



- Carry a copy of the BSI definition with you until you are familiar with it
- Fill out BSI form
 - ICU patients
 - Central line associated
- Do not include BSI from Burn units or Trauma units
- Include the MDs
 - Give them copies of the definition
 - Make sure they understand that the definitions are not negotiable (surveillance vs. clinical definition)



BSI Rates

$$\frac{\# \text{ BSI Infections}}{\text{Total \# patients with CL}} \times 1,000$$

- **BSI denominators are the total number of patients in the ICU that have a central line each day**
 - Holidays and weekends included
- **The ICP must have denominators for BSIs**
 - ICP collects numerator – the infection
 - ICP must have cooperation to get denominators

Getting Denominators for Central Lines



- The ICP can go to the ICU and physically count each patient with a CL
 - Make sure you have a weekend and holiday plan
- Have the charge nurse at the shift change fill out a daily denominator form
- Have a secretary/unit clerk at an arbitrary time (12MN or 2 AM) count up the CL or ask the nurse



Getting Denominators for Central Lines



- Download the denominators from a finance program of central line charges
 - NOTE: if you do this you MUST validate this– and keep an eye on this!





What Can You Do?

- **Decide how to get the denominators as an institution**
- **Meet with ICU leadership both MD and RN**
- **Make it happen**
- **Do NOT leave it up to the ICP to try to get the denominators**
 - **Often units will de-prioritize their importance**

Reporting CABG SSIs



- Carry a copy of CDC SSI definitions with you until you become familiar with it

Enter surgeon codes one at a time or import surgeon codes from a file

- Surgeon codes can be name related (Smith, J or Smith, John)
- Surgeon codes can be numbers
– Smith, J = 3112

Consider combining the denominator and SSI forms

- Try to upload CABG denominators if possible
- Could staple both forms together



Denominator for Procedure & Surgical Site Infection

*Facility ID#:	*Procedure #:	Event #
*Patient ID#:	Social Security #:	
Adm date:	Discharge date:	Service:
Patient Name, Last: _____	First: _____	Middle: _____
*Gender: F M	*Date of Birth:	
Location (OR):	*Date of Procedure:	
*NHSN Procedure Code:	Event Details: SSI	

Procedure Details

*Outpatient: Yes No *Duration: _____ Hours _____ Minutes

*Wound Class: C CC CO D U *General Anesthesia: Yes No

*ASA Class: 1 2 3 4 5 *Emergency: Yes No

*Trauma: Yes No *Endoscope: Yes No *Multiple Procedures: Yes No

Surgeon Code: _____ *Birth wt if NICU _____

CSEC:

*Height: _____ feet _____ inches *Weight: _____ lbs / kg (circle one) *Duration of Labor: _____ hours
(choose one) _____ meters *Estimated Blood Loss: _____ ml

Circle one: **FUSN** **RFUSN**

*Spinal Level: (check one)

- Atlas-axis
- Atlas-axis/Cervical
- Cervical
- Cervical/Dorsal/Dorsolumbar
- Dorsal/Dorsolumbar
- Lumbar/Lumbosacral
- Not specified

*Diabetes Mellitus: Yes No

*Approach/Technique: (check one)

- Anterior
- Posterior
- Anterior and Posterior
- Lateral transverse
- Not specified

*HPRO: (circle one) _____ Total Primary _____ Partial Primary _____ Total Revision _____ Partial Revision

*KPRO: (circle one) _____ Total Primary _____ Total Revision _____ Partial Revision

Custom Fields

Event date _____ / ____ / ____	Superficial Incisional Primary (SIP) Y/N _____
Implant Yes/No _____	Superficial Incisional Secondary (SIS) Y/N _____
Pathogen Identified Yes/No _____	Deep Incisional Primary (DIP) Y/N _____
Detected A P R _____	Deep Incisional Secondary (DIS) Y/N _____
Died Yes/No _____	Organ/Space: _____
Contributed to Death Yes/No _____	Diabetic Yes/No _____
Preop Abx _____ Time _____	Obese (BMI > 30) Yes/No _____
Intraop Abx _____ Time _____	Secondary BSI Yes/No _____

Comments

Name/description of procedure: _____

Uploading CABG Denominators

- **Must be in ASCII format**
- **Can convert excel files into comma delimited CSV (comma separated value) files**
- **Columns must be in NHSN order for the upload to be accepted**
- **Uploading files saves you from entering each denominator one at a time ***** BIGGEST TIME SAVER*******

NHSN Column Order for Denominator Upload

- Medical record # or Pt ID number
- Gender (M/F)
- Date of birth
- NHSN Operative Code (CGBG –for both chest and extremity incision or CBGC – chest only)
- Surgical date
- Outpatient (Y/N) always No
- Duration of surgery (hours)
- Duration of surgery (minutes)
- Surgical wound class (should be C=Clean)
- ASA score (number 1-5)
- Endoscope used (vein harvest) Y/N
- Surgeon code
- Emergency? (Y/N)
- Multiple procedure? Y/N CABG+ Valve=Yes
- General Anesthesia? Y/N
- Trauma? Y/N

Column Order for CAGB Denominators

Microsoft Excel - NHSN heading template

NHSN Surgical Procedure Required Fields

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Patient ID (MR#)	Gender	DOB mm/dd/yyyy	Procedure Code	Procedure Date	Output y/n	Duration (hours)	Duration (mins)	Wound Class	ASA	Endoscope y/n	Surgeon Code	Emergency y/n	Multiple Procedures y/n	Gen Anes y/n	Trauma y/n	
4																	
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No Patient Names Required

Headers:
Delete before
Upload



Tips for Surgical Denominators

- **If uploading from Excel, convert to CSV file and remove headers**
- **You may have to work with your OR Informatics person to help you get the upload in correct column order**
- **Once established, denominator uploads take only seconds**
- **Otherwise you will have to enter each denominator separately**
- **Strive to get the upload!!**

Hand Hygiene

Just wash!

Rub It In

Rub It In



**No water?
No problem.**

Kill 99.9% of All Germs Within Seconds.
The most effective way to protect yourself from germs.

Hand Sanitizer. Keep it Handy.

Just Do It

Got Soap?

Are you getting it?

Wash Your Hands

Hand Hygiene



○ Monitoring

- Monitor soap or alcohol gel usage
- Monitor HCW practicing HH
- Feedback rates of compliance to units/departments

○ Training

- annual training to review importance of HH
- Products available for HH

Monitoring Hand Hygiene 101



- Secret shopper method
- Get students, nurses working on clinical ladder, safety/infection control champions
- Monitor in all areas and include all shifts
- **THERE IS NO WAY A SINGLE ICP CAN MONITOR COMPLIANCE 100% OF THE TIME!!!!**

Reward Good Behavior



- “Catch” staff and MDs practicing hand hygiene before entering the room or when leaving the patient room
- Give them a prize
 - Ink pen with hand washing logo
 - Movie tickets
 - Coupons for food, coffee

Note to Administrators

- **ICP will need additional help from you**
 - Take a look at the IC budget
 - Reward programs are effective, but they do have a \$\$ cost
- **Administration needs to be a trend setter**
 - Post pictures of administrative types, chiefs, CEO washing hands or using alcohol gel
 - Images of leaders “showing the way” has a great deal of clout!!

Sample of Hand Hygiene Tool



Hand Hygiene and Contact Isolation* Precautions Observation Tool

Name _____ Unit Observed _____ Date _____ Shift _____

Person Observed	HH Before Patient Contact and/or PPE	PPE Before Entering Room	PPE Removed in Room	HH After Patient Contact and/or Removing PPE	Activity During Break in Practice
<input type="checkbox"/> Attending <input type="checkbox"/> Resident/Intern <input type="checkbox"/> Student <input type="checkbox"/> Nurse <input type="checkbox"/> Care Partner <input type="checkbox"/> RT <input type="checkbox"/> PT/OT <input type="checkbox"/> Other _____	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Monitor / Alarm <input type="checkbox"/> Assisting bedside HCW <input type="checkbox"/> Procedure / Treatment <input type="checkbox"/> Housekeeping <input type="checkbox"/> Other: _____ _____
<input type="checkbox"/> Attending <input type="checkbox"/> Resident/Intern <input type="checkbox"/> Student <input type="checkbox"/> Nurse <input type="checkbox"/> Care Partner <input type="checkbox"/> RT <input type="checkbox"/> PT/OT <input type="checkbox"/> Other _____	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Monitor / Alarm <input type="checkbox"/> Assisting bedside HCW <input type="checkbox"/> Procedure / Treatment <input type="checkbox"/> Housekeeping <input type="checkbox"/> Other: _____ _____
<input type="checkbox"/> Attending <input type="checkbox"/> Resident/Intern <input type="checkbox"/> Student <input type="checkbox"/> Nurse <input type="checkbox"/> Care Partner <input type="checkbox"/> RT <input type="checkbox"/> PT/OT <input type="checkbox"/> Other _____	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Gloves only <input type="checkbox"/> Gown only <input type="checkbox"/> Both <input type="checkbox"/> Neither	<input type="checkbox"/> Alcohol/hand rub <input type="checkbox"/> Soap and water <input type="checkbox"/> Not performed	<input type="checkbox"/> Monitor / Alarm <input type="checkbox"/> Assisting bedside HCW <input type="checkbox"/> Procedure / Treatment <input type="checkbox"/> Housekeeping <input type="checkbox"/> Other: _____ _____

* Personal protective equipment (PPE) includes gloves AND gown worn by EVERYONE upon entering patient rooms and removed in patient rooms before leaving.

Monitoring Tool – Where is the Help?



- Identify helpers – RNs, LPNs, techs to fill out hand hygiene forms
- Contact local nursing schools
 - Nursing students are natural observers
 - Contract with the schools prior to clinical days
- Contact local high schools and ask for National Honor Society volunteers
 - These honor student must have X amount of community service per year

Report Rates Back to the Units



Alien vs. Predator



Freddy vs. Jason

- Feedback is important!
- Get some competition going on
 - Night shift vs. Day shift
 - Radiology vs. Respiratory Care
 - RNs vs. MDs
- Reward the winners
 - Pizza party for unit with highest HH compliance
 - Ice cream party/sundaes



Simon vs. Sanjaya



Influenza



- **Annual education**
 - Include prevention
 - Include non-vaccine prevention
- **Offer vaccine to all HCW**
- **Track who gets vaccine and who does not**
 - Have a declination statement for those who do not want the vaccine to sign
 - Send vaccination rates to TDH by Dec 31 of each year

How to “up” your vaccination rates



- Take photos for CEO, Chief of Medicine, surgery etc... getting Flu Shot
- Roving vaccinators all floors, all shifts
- Give prizes to the area with the highest vaccination rate

Themes

- Circus theme – Big Top
- Convenient “booths” in lobby, cafeteria, near popular areas
- Use your imagination
- Be creative



We Want You....To Get Vaccinated!

Influenza Strategy: Shift the Paradigm



- **Emphasis for education on protecting your patients from your influenza (i.e. you will make your patients sick)**
- **Protect your family by getting influenza vaccine**
- **Protect your co-workers**

Be careful what you wish for...

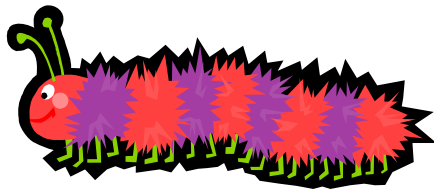
- **Enhanced influenza programs will increase rates a little bit**
- **Requiring declination statements increases vaccination rates exponentially!**
- **Order more vaccine...Now**



Central Line Bundle

- **Make sure that the following are available:**
 - Large drapes
 - Chlorhexidine
 - Central line insertion carts
- **Incorporate daily review of necessity of central line**

Change is Good!



- These changes are state law and/or part of health care facility “Rules” changes
- ICP is learning a new software system
 - Needs computer that can support the program
 - May need IT help on occasion

Questions.....

WWW