How to be NHSN Prepared: Surgical Site Infections

July 27, 2011

Janette Biorn, RN, CIC
Infection Preventionist
Banner Thunderbird Medical Center
Objectives

- Provide Overview of NHSN and CMS IPPS SSI Reporting Requirements
- Outline differences Between CMS and NHSN
- Review Reporting Criteria
- Provide Available Resources
I'd like to thank all of the people who helped design the technology test parameters.

Thanks to your input, the test had nothing in common with how things work in the real world.

So I wasted two weeks of my life on a test that is not only meaningless...

...but also dangerously misleading.

This slide shows the gap between the test results and reality.

We'll use the test results anyway because it's the only data we have.

Fine. I hope you all choke to death on your lunches.

Why's he so cranky?

Something about data.
CMS Reporting through NHSN

- Inpatient Prospective Payment System participants
- Acute Care Hospitals with more than 25 inpatient beds
- Perform surgeries on specified operative procedures
- Reporting Begins January 1, 2012
HAI’s – as of 4/19/2011

Used in IPPS Payment and Adopted for Reporting Program

√ Catheter –associated urinary tract infections (POA indicator)

√ Vascular catheter-associated infection
  √ Data submission January 2011

Surgical site infections
  ● Data submission January 2012
Proposed Surgical Procedures
FY 2012

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colon surgery</td>
<td>17.31-17.36, 17.39, 45.03, 45.26, 45.41, 45.49, 45.52, 45.71-45.76, 45.79, 45.81-45.83, 45.92-45.95, 46.03, 46.04, 46.10, 46.11, 46.13, 46.14, 46.43, 46.52, 46.75, 46.76, 46.94 **</td>
</tr>
<tr>
<td>Abdominal hysterectomies *</td>
<td>68.31, 68.39, 68.41, 68.49, 68.61, 68.69 **</td>
</tr>
</tbody>
</table>

*The list of surgical procedures is not set for 2012.
** NHSN Codes - may be different than CMS
Criteria: CMS vs NHSN

- All procedures within the NHSN category for the targeted procedure
  - CMS – Not all codes in the NHSN procedure category

- Follow up for \( \leq 30 \text{ days} \), Implant - \( \leq 1 \text{ year} \)
  - Readmission (RI and RO), post discharge, procedure admission
  - CMS – any of the above which occur \( \leq 30 \text{ days} \) of operative procedure

- Any patient meeting the definition of a surgical procedure
  - CMS - Patients must be \( \geq 18 \text{ years} \) of age

- Report all types of SSI
  - CMS - deep incisional and organ space
Partner with Quality, IT, HIM, Clinical Informatics

Manual entry or electronic – Procedures within the ICD-9 Code category

- Complete the NHSN procedure form
- Importing: ASCII comma delimited text file format. You can generate the import files from different external sources, such as databases or hospital information systems
  - Denominator
  - Numerator – depends on the type of database
- Validate data from electronic sources
Data Type

Denominator

- Required fields
  - Demographics: Patient ID, Gender, Date of Birth, NHSN Procedure Code, Date of Procedure
  - Procedure fields
    - All procedures: ASA, duration, wound class, diabetes, height, weight
    - HYST: endoscope, general anesthesia
    - COLO: endoscope, general anesthesia, implant

Numerator

- Superficial, deep, organ space infections
If the skin incision edges do not meet because of wires or devices or other objects extruding through the incision, the incision is not considered primarily closed and therefore the procedure is not considered an NHSN operation.

- Do not report in the denominator or as an SSI.

If patient goes to the OR more than once during a 24 hour period and the same incision is used, add the durations together.

If more than one procedure is performed during the same OR trip – Report each procedure.

- If duration for each is not provided, add together and divide in half.
Finding Surgical Site Infections

- Microbiology Reports – must also meet definition of infection
- Infection Control patient rounds
- Operating Room Reports – Incision and drainage
- Interventional radiology reports for percutaneous drainage of abscesses
- Referrals – physicians, other health care facility
- Readmission logs
- Emergency Department visit logs
- Autopsy reports
- Clinic Reports
- Post discharge surveys methods
RESOURCES

- SSI NHSN Module
- Importing Procedures
  http://www.cdc.gov/nhsn/library.html#psc
- APIC Public Policy
  http://www.apic.org/AM/Template.cfm?Section=Government_Advocacy
- CMS IPPS Final Rule
  http://www.cms.gov/AcuteInpatientPPS/IPPS2010/list.asp
References

- HAC – POA. Hospital-Acquired Conditions (HAC) in Acute Inpatient Prospective Payment System (IPPS) Hospitals. October 2010
Thank You!