Surgical Site Infections in Colon Resection Patients in a Safety Net Hospital

National Standards as Compared to National Surgical Quality Improvement Program (NSQIP) Data

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OBJECTIVES

- Determine key variables explaining the substantially higher risk of developing an SSI at LSUHSC-ILH using the NSQIP SSI risk calculator and CDC wound classification criteria.
- To Develop a management strategies to improve the incidence of SSI in post elective or traumatic colorectal resections at LSUHSC-ILH.
- Retrospective review of 151 medical records of patients undergoing elective or traumatic colorectal surgery at the LSUHSC-ILH in 2013.
- A surgical site infection is an infection that occurs after surgery in the part of the body where the surgery took place1. (CDC Definition)
- Primary outcome measures included information about the surgical case, risk of developing an SSI.

CONCLUSIONS

- SSIs following elective or traumatic colorectal resections was most common with patients at LSUHSC-ILH who had contaminated or dirty wounds.
- With varying staff interpretation of wound classification using the CDC criteria this may lead to erroneous reporting of SSI at LSUHSC-ILH.

METHODS

- With varying staff interpretation of wound classification using the CDC criteria this may lead to erroneous reporting of SSI at LSUHSC-ILH.

RESULTS

Table 1. Patients who developed an SSI following colorectal surgery

<table>
<thead>
<tr>
<th>Patient Number</th>
<th>Emergent</th>
<th>race</th>
<th>Surgery Performed</th>
<th>Wound Class</th>
<th>BMI</th>
<th>DM / Insulin</th>
<th>Prophylactic Antibiotics</th>
<th>Wound Debridement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N</td>
<td>N</td>
<td>left anterior colostomy</td>
<td>Class III/Contaminated</td>
<td>31</td>
<td>no</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>2</td>
<td>N</td>
<td>N</td>
<td>loop ileostomy</td>
<td>Class IV/Dirty-Infected</td>
<td>31</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>3</td>
<td>N</td>
<td>N</td>
<td>right anterior colostomy</td>
<td>Class III/Contaminated</td>
<td>31</td>
<td>no</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>
- Table 2. Center for Disease Control (CDC) Wound Classification

- CDC Surgical Wound Classification

- Class I/Clean:
- Class II/Contaminated:
- Class IV/Dirty-Infected:

WORKS CITED