Reduction of Erosion Risk in Adult Patients with Implanted Ports

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Erosion complications are infrequently reported (<1%) (C).

Radiology will mark bra straps prior to insertion.

Mandatory education for nursing staff at the St Cloud Hospital on new Bard Power Access needle and Tegaderm Securement Dressing.

Regional telephone surveys of cancer centers indicate use of 20 Ga needles to access ports (E).

Premark bra strap line prior to insertion. (E)

Genetech Avastin recommendations—Consider port placement to be 14 days before or after Avastin administration (C).

Goal
Percent of port erosions per year will be at or below the number reported in the literature.

Outcomes

References


Best Practice Changes

Changes Implemented March 2011-September 2011
- Change of Bard Power Port to version with lower profile palpation bumps
- Change in access needle from 19 to 20 ga
- Staff education on securing port access tubing and accurate documentation of port assessments
- Staff education on providing patient teaching specific to caring for the access device (i.e. Using a pad to protect from bra straps or seat belts)
- Radiology will mark bra straps prior to insertion
- Radiologists have acknowledged the practice and support that ports should have depths of 0.5-2 cm
- Continue to send eroded devices to Bard for review of medical device failure

Changes Implemented October 2011-December 2011
- Medical Oncology will continue to consider timing of port placement to be 14 days before or after Avastin administration
- Change of Bard Power Port to upgraded version without profile palpation bumps
- Mandatory education for nursing staff at the Coborn Cancer Center and Radiology on new Bard Power Access needle and Tegaderm Securement Dressing
- Change to Bard Power Access needle and Tegaderm Securement Dressing in Outpatient Infusion at the Coborn Cancer Center

Team Members

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- Bob Miller, RN, Radiology
- Mary Super, Director of Radiology
- Brenda Swendra-Henry, RN, Educator Radiology

January 2012 and Beyond
- Mandatory education for nursing staff at the St Cloud Hospital on new Bard Power Access needle and Tegaderm Securement Dressing
- New Bard Power Access needle and Tegaderm Securement Dressing for entire SCH implementation date expected April 2012
Port Erosion Complications

- Technique Review
- Change of access needle
- Staff education on best practice changing
- Marking of bra strap

<table>
<thead>
<tr>
<th>% of Reported Complications</th>
<th>01/10-09/11</th>
<th>10/11-12/11</th>
<th>01/12-03/12</th>
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</thead>
<tbody>
<tr>
<td>Reported Data</td>
<td>3.2%</td>
<td>1.8%</td>
<td>1.2%</td>
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<tr>
<td>Literature Benchmark</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
</tbody>
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- Change of port access
- Change of access needle at Coborn Cancer Center
- Change of securement device at Coborn Cancer Center
- Mandatory education at Coborn Cancer Center
- Mandatory housewide education