Abstract
This project describes efforts to reduce and eliminate pressure ulcers (PU) in the operating room (OR). Specifically addressed is work being conducted at Penn State Hershey Medical Center that is part of a collaborative effort to evaluate the Munro PU Risk Assessment Scale. A two-step process is being implemented that includes:
1. Identification of perioperative patients at risk for PU development using the Munro Risk Assessment Scale.
2. Systematic review and evaluation of relevant literature on perioperative PU development and risk assessment.

Results from an 8-week Evaluation by Perioperative Nurses Using the Munro PU Risk Assessment Scale

<table>
<thead>
<tr>
<th>Distribution Date</th>
<th>Eligible Patient Cases</th>
<th>Forms Returned % (n)</th>
<th>Mean and (SD) for Items Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 4, 2015</td>
<td>62</td>
<td>76 (47)</td>
<td>20.1 (7.4)</td>
</tr>
<tr>
<td>Aug 11, 2015</td>
<td>51</td>
<td>51 (26)</td>
<td>18.8 (8.1)</td>
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<td>Aug 18, 2015</td>
<td>65</td>
<td>66 (44)</td>
<td>21.9 (7.2)</td>
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<td>Aug 25, 2015</td>
<td>61</td>
<td>67 (41)</td>
<td>26.1 (5.3)</td>
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<td>Sep 1, 2015</td>
<td>66</td>
<td>68 (43)</td>
<td>23.6 (6.3)</td>
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<tr>
<td>Sep 8, 2015</td>
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<td>61 (34)</td>
<td>23.9 (7.4)</td>
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<td>Sep 22, 2015</td>
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<td>62 (39)</td>
<td>21.2 (7.5)</td>
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<td>Sep 29, 2015</td>
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<td>13 (13)</td>
<td>16.1 (5.2)</td>
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<tr>
<td>Total</td>
<td>479</td>
<td>68 (327)</td>
<td>22.1 (7.3)</td>
</tr>
</tbody>
</table>

Process for Systematic Review
PICO Question: What are the interventions to reduce or prevent pressure ulcers in the OR?
Population: Perioperative patients, preoperative, intraoperative, postoperative; Intervention: Pressure ulcer prevention; Comparison: Any element of PU prevention in perioperative patients (i.e., prevention during surgical procedures, techniques to prevent development in the OR); Outcomes: Reduction, elimination, prevention of PU development

Created 4 Review Teams (2 per Team )
• Completed independent review of titles for assigned articles;
• Answered YES / NO
  • Is PU prevention addressed?
  • Is the setting Perioperative?
  • Is the article in English?
• Each Team compared decisions:
  • Citations receiving YES by both, advanced to Phase 2;
  • Citations receiving NO by both, excluded;
  • Disagreements resolved by discussion.

Literature Search Results
• 950 potentially relevant citations identified
• 188 duplicates removed
• 791 records retrieved for evaluation
• 597 records excluded
• 194 full text articles assessed for eligibility
• 152 included for final analysis

Lessons Learned
Staff engagement is key for success. Most want to know how the information they provided will contribute to a better tool for PU prevention in the Perioperative setting.
• Data collection needs to be as easy as possible and not disrupt the normal workflow.
• Education via live in-service, with online education reinforced education and allowed training for more staff.
• Implementation of a new program should avoid holidays and end of summer schedules.
• Use of the Munro Scale may not be appropriate for short surgical procedures (e.g. Cataract).

Next Steps
• Continue Systematic Review Work
• Implement clinical practice changes for PU prevention in the OR based on review of best available evidence.

References