SAVI SCOUT® Localization Improves Breast Surgery Operating Room Start Times compared with Wire Localization

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BACKGROUND
Operating Room (OR) delays can be costly. In the Midwest U.S. there is an initial basic OR set-up fee of $3,147 and an additional $56/minute charge throughout the operation. Eastern U.S. estimates $80/minute and a $3,000 fee for same day cancellation of surgery.

OBJECTIVES
All OR start time delays for any reason were compared in wire and non-wire breast localization to assess for potential cost savings with non-wire devices.

METHODS
OR start time delays were recorded at one hospital for two breast surgeons (6-10 years experience with wire localization) who requested breast localization prior to and after the implementation of non-wire SCOUT RADAR (SCOUT). For patients who required pre-operative breast localization, surgeons could opt for same day wire or 0-30 day advance SCOUT placement. From January 1, 2015 to October 1, 2016 the number of minutes of delayed start time for any cause was recorded. Minutes of delay per patient were compared for pre-operative wire and non-wire SCOUT.

RESULTS
Two breast surgeons performed 287 SCOUT guided surgeries during the study dates. The OR start time delays for these two surgeons at one hospital were recorded for 159 patients who had localization of non-palpable breast lesions (30 wire localization and 129 SCOUT localization). The average OR start delay for any reason for all patients was 17 minutes. OR start delays averaged 40 minutes in wire patients and 11 minutes in SCOUT patients. The 29-minute difference was statistically significant (95%CI P < .001). No delay or same day cancellation was attributed to SCOUT localization.

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<thead>
<tr>
<th></th>
<th>WIRE LOCALIZATION</th>
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<tr>
<td></td>
<td>Patients</td>
<td>Minutes</td>
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<td>27</td>
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<td>30</td>
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CONCLUSIONS
Improved OR start times for two breast surgeons in one hospital could yield cost savings, favorably impact patient and physicians' (surgeon, anesthesiologist, radiologist) satisfaction, and inform price transparency. OR costs may vary by geography. Use of FDA-cleared non-wire passive localization devices, such as SCOUT can uncouple the Radiology and Surgery department schedules to minimize OR delays compared with same day pre-operative wire localization.

REFERENCES