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INTRODUCTION
• Non-technical skills are an important component of surgeon’s performance in the OR. However, this is not formally trained or assessed.
• The primary aim of our work was to design a task which could be used as a part of a curriculum in proficiency based education to formally train in technical and non-technical skills

METHODS
• SUBJECTS: 10 PGY1 residents
• TASK: Open hand-sewn gastrojejunostomy in a simulation center based OR.
• TRAINING: Practice and didactics. Skills assessed pre and post training.
• Resident hand-motions and OR perspective video recorded.
• Technical skills assessed by OSATS (Objective Structured Assessment of Technical Skills)
• Non-technical skills assessed by NOTECHS (Non Technical skills)
• Pre-Post differences tested by paired T test.
• Correlations tested by Pearson’s correlation coefficient.
• Inter-rater reliability tested by Intra Class Correlation coefficient (ICC).

RESULTS
• Improvement in OSATS and NOTECHS post training
• Excellent correlation between OSATS and NOTECHS scores
• Modest correlation between degree of OSATS and NOTECHS improvement
• Excellent inter-rater reliability for OSATS and NOTECHS

Means

<table>
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<tr>
<th></th>
<th>Pre</th>
<th>Post</th>
<th>P value (T test)</th>
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<tbody>
<tr>
<td>OSATS</td>
<td>18</td>
<td>22.35</td>
<td>p=0.001</td>
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<tr>
<td>NOTECHS</td>
<td>63.25</td>
<td>69.95</td>
<td>p=0.0006</td>
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Inter Rater Reliability

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<th>ICC</th>
<th>P value</th>
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<tbody>
<tr>
<td>OSATS</td>
<td>0.939</td>
<td>p&lt;0.001</td>
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<tr>
<td>NOTECHS</td>
<td>0.928</td>
<td>p&lt;0.001</td>
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CONCLUSION
• Technical performance correlates well with non-technical skills.
• Correlation between degrees of improvement in technical and non-technical skills is modest.
• Multi-modality training of surgeons should focus on training in both technical and non-technical skills.