

Accuracy and Reliability of an AI-Based Measurement Tool During Robotic-Assisted Sleeve Gastrectomy

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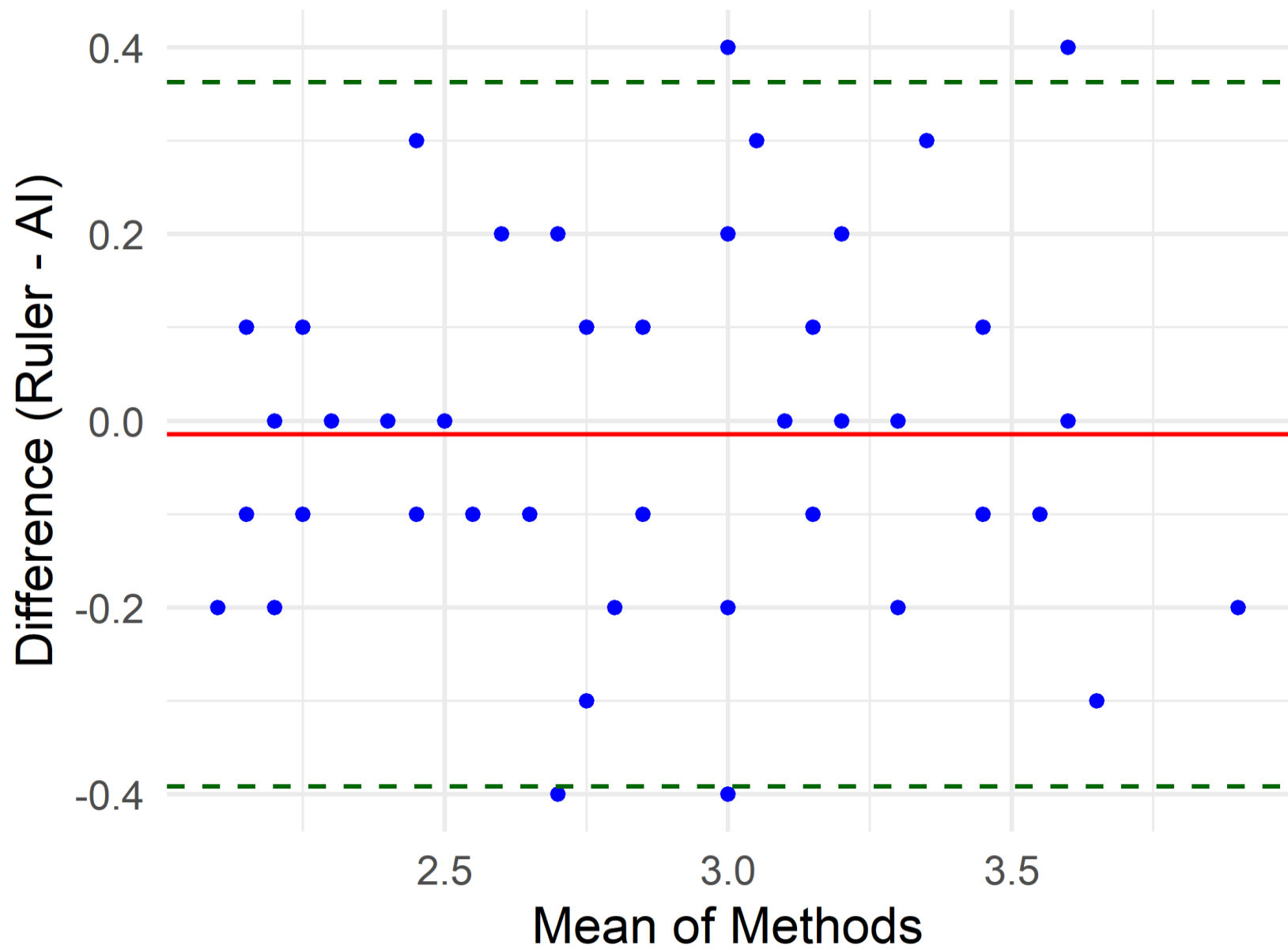
Disclosures

- No disclosures to report

Methods & Results

Feature	Ruler mean (SD)	AI mean (SD)	Average Error	MSE	Margin of Error	ρ	R^2
P2P - GE Junction	2.53 (0.40)	2.49 (0.33)	-0.033	0.030	0.339	0.897	80.4%
Contour - GE Junction	3.18 (0.41)	3.22 (0.36)	0.033	0.045	0.416	0.847	71.8%
P2P - Incisura	2.54 (0.27)	2.45 (0.27)	-0.092	0.024	0.304	0.883	78.0%
Contour - Incisura	3.14 (0.35)	3.18 (0.33)	0.033	0.047	0.425	0.786	61.9%

Results:



Conclusion

- Preliminary findings demonstrate that AI-based measurements demonstrate high accuracy and strong agreement during SG with minimal bias and error margins
- AI-based measurement tool is feasible and reliable enough to warrant larger-scale validation

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