

Is Youtube a reliable source for Minimally invasive inguinal hernia repair training ?

A Comparative analysis of robotic and laparoscopic TAPP videos

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CONTEXT

Is the content available on YouTube of good quality?

Our impression is that robotic surgery videos are of higher quality than laparoscopic surgery videos, but is this actually true?

AIM

Evaluate and compare the quality of robotic (RT) and laparoscopic (LAP) transabdominal preperitoneal (TAPP) inguinal hernia repair videos available on YouTube.

METHODS



A priori sample size calculation for moderate effect size (Cohen's $d = 0.5$)



02 GROUPS:

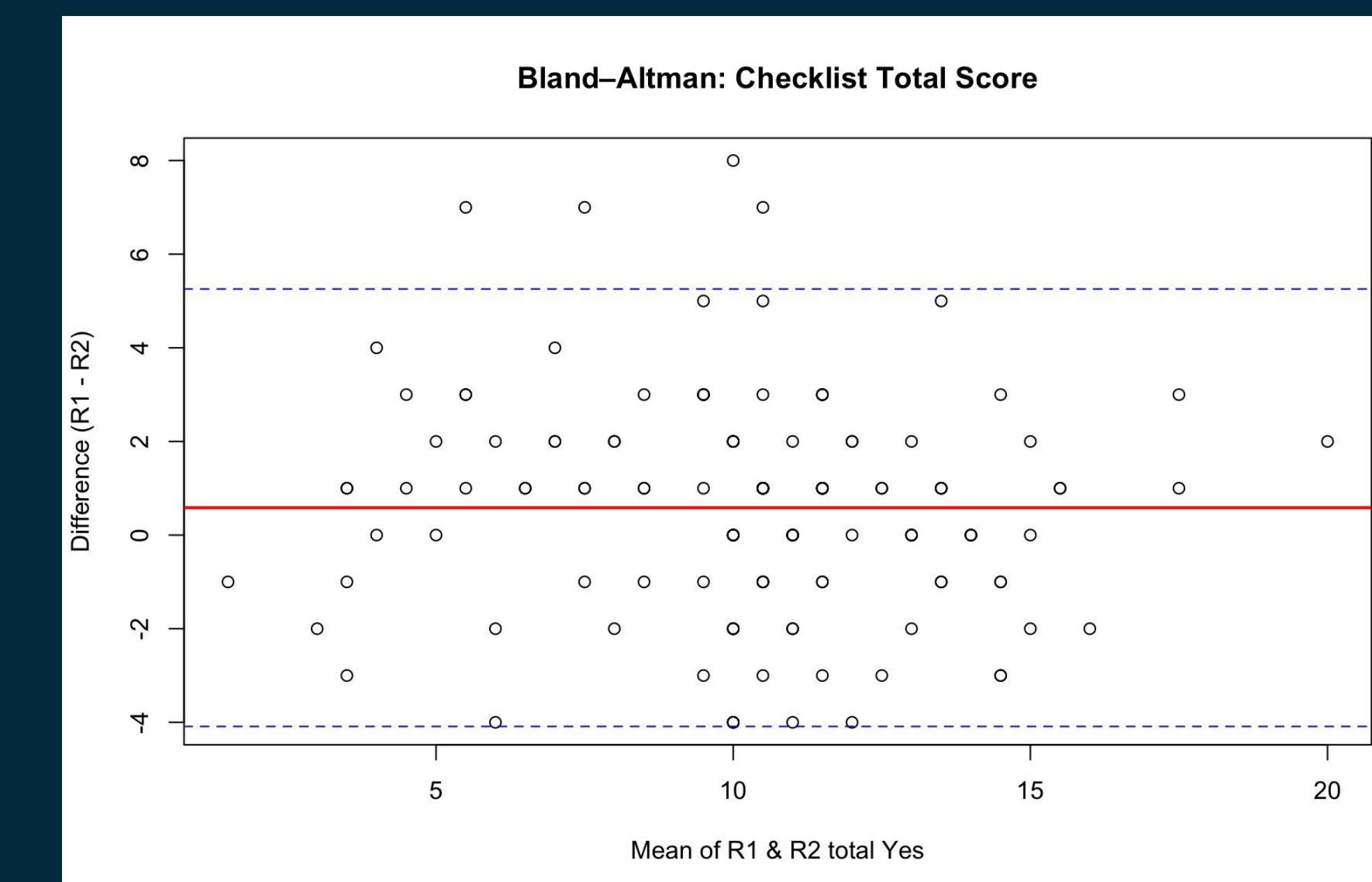
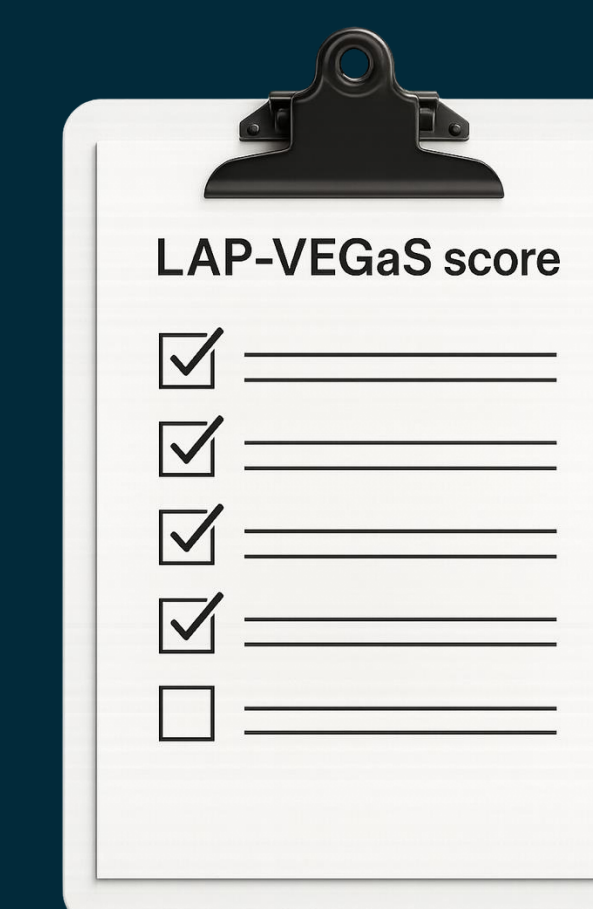
63 LAP TAPP

X

63 RT TAPP



Two blinded hernia surgeons assessed all videos using 02 scores (a newly developed 21-item Qualitative Evaluation Tool and the validated LAP-VEGaS score)



RESULTS

RT videos scored significantly higher than LAP videos on the newly developed Qualitative Evaluation Tool (mean score 0.54 vs. 0.44; $p < 0.001$; Cohen's $d = -0.60$), indicating a moderate effect size. Similarly, RT videos demonstrated higher LAP-VEGaS scores (7.46 vs. 6.34), though this difference did not reach statistical significance ($p = 0.091$). These findings suggest that robotic videos present superior adherence to technical and educational standards, respectively. Both assessment tools demonstrated adequate inter-rater agreement and internal consistency, supporting their reliability for evaluating educational video content.

CONCLUSION

RT videos showed greater adherence to technical and educational standards compared with LAP, but general quality improvements remain necessary across both approaches.