



XXIX IFSO World Congress

1-4 September 2026 | Toronto, Canada

Segment-Level Learning Curves in Robotic vs Laparoscopic Sleeve Gastrectomy

AI-enabled video workflow analysis

Toghrol Talishinskiy, MD, FACS, FASMBS

Director of Robotic Surgery

Director of MIS fellowship

Chief, Bariatric Surgery

St. Joseph's Health • IFSO 2026 • Rapid Fire #1081

TORONTO 2026

The Future of Obesity Management:
From Weight Loss to Health Gain



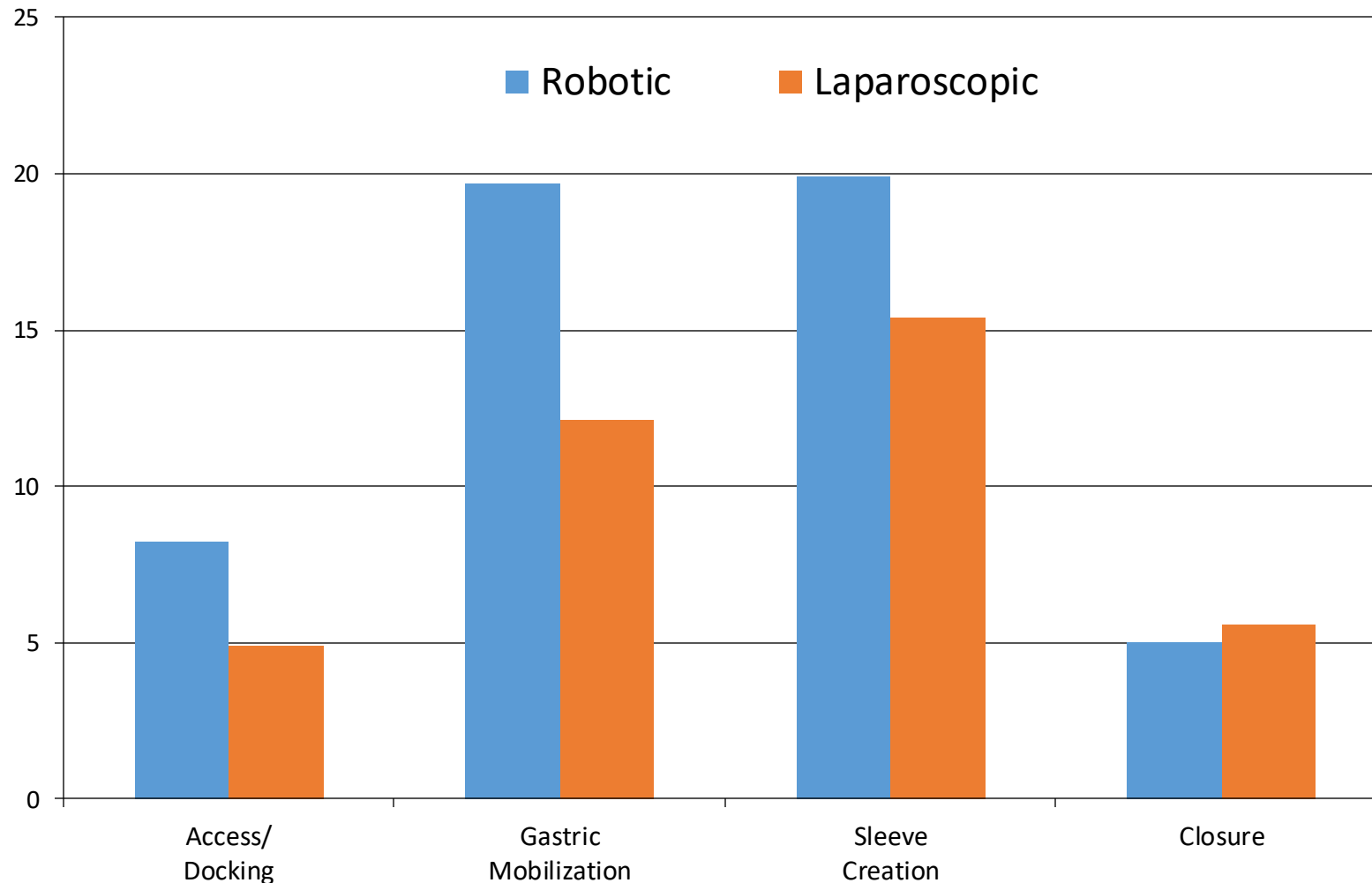
ifso2026.org

Disclosure Slide

Consultant : Medtronic



The Robotic–Laparoscopic Difference Is Concentrated in Specific Steps



8.2 vs 4.9

Access / docking

19.7 vs 12.1

Gastric mobilization

19.9 vs 15.4

Sleeve creation

Later phases were more comparable.



The Learning Curve Becomes Visible at the Step Level

DOCKING / ACCESS

10.3 → 8.6 min

17%

reduction

GASTRIC MOBILIZATION

21.2 → 18.4 min

13%

reduction

TOTAL ROBOTIC TIME

61 → 56 min

8%

reduction

Both approaches showed segment-level improvement; robotic cases also showed improved overall operative efficiency.



Take-Home Message

LIMITATION

We cannot reliably assign each operative segment to the attending versus the fellow.
The observed learning curve therefore reflects the teaching-team workflow.

**Total operative time tells us IF we improved.
AI-enabled video analysis tells us WHERE we improved.**



XXX IFSO WORLD CONGRESS

"Advancing Multimodal Obesity Care"

24-27 August 2027

ifso2027.org



IFSO
PARIS 2027

See you in

PARIS

