

ROBOT-ASSISTED HIATAL HERNIA **REPAIR WITH** TRANSORAL INCISIONLESS FUNDOPLICATION (TIF)

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Background



Demonstrated that combined laparoscopic HH repair and TIF (cTIF) is safe and effective at reducing reflux symptoms in a large spectrum of GERD patients.

Reference: Novel Interdisciplinary Approach to GERD: Concomitant Laparoscopic Hiatal Hernia Repair with Transoral Incisionless Fundoplication

Alyssa Y Choi, MD, Mary Kathryn Roccato, MD, Jason B Samarasena, MD, Jennifer M Kolb, MD, MS, David P Lee, MD, MPH, Robert H Lee, MD, Shaun Daly, MD, FACS, Marcelo W Hinojosa, MD, FACS, Brian R Smith, MD, Ninh T Nguyen, MD, FACS, Kenneth J Chang, MD



BENEFITS OF ROBOTIC OVER LAPAROSCOPIC HH REPAIR



Technical advantages over laparoscopic hiatal

- hernia repair with similar clinical outcomes
- Shorter length of stay (2.2 days vs 3.3 lap)
- Lower recurrence rates (13.2% vs 32.8%) lap)



Associated with improved outcomes compared to laparoscopic hiatal hernia repair

- Shorter length of stay (1.3 vs 1.8 lap)
- Lower complication rates (6.3% vs 19.2% lap)

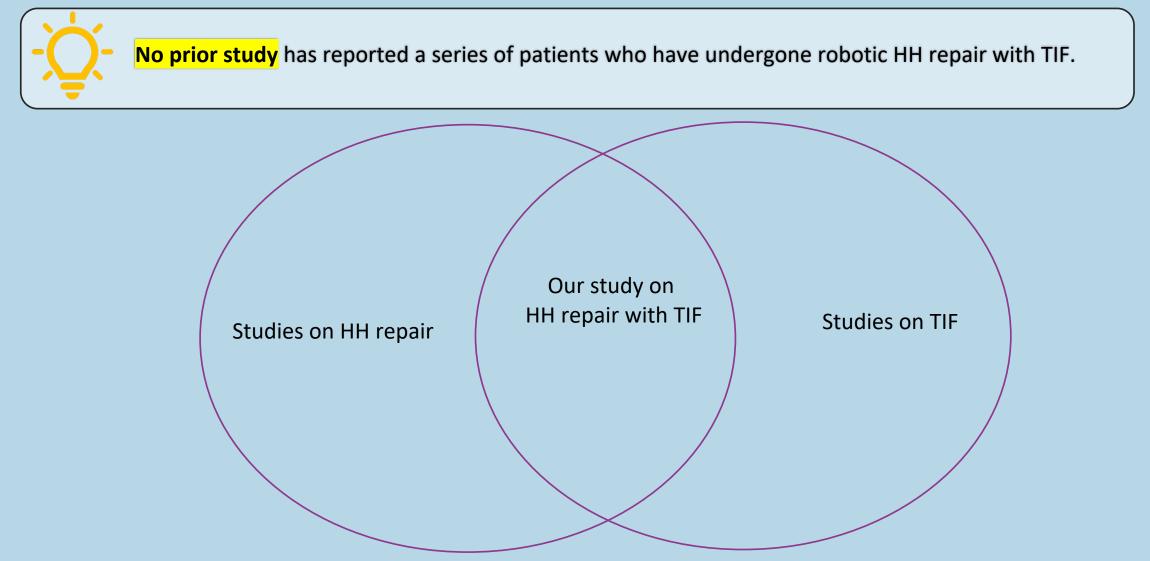
Reference: Robotic Versus Laparoscopic Approach to Hiatal Hernia Repair: Results After 7 Years of Robotic Experience

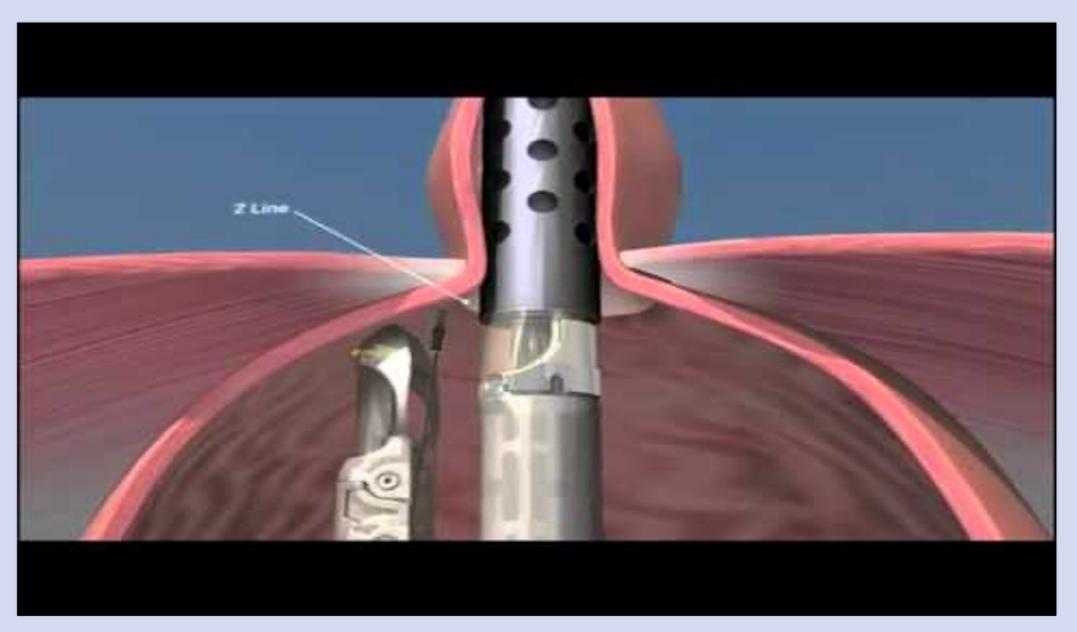
Sean C O'Connor, Matthew Mallard, Shivani S Desai, Francisco Couto, Matthew Gottlieb, Alex Ewing, William S Cobb, Alfredo M Carbonell, Jeremy A Warren Reference: Robot-assisted hiatal hernia repair demonstrates favorable short-term outcomes compared to laparoscopic hiatal hernia repair

Basem G Soliman , Duc T Nguyen , Edward Y Chan , Ray K Chihara , Leonora M Meisenbach, Edward A Graviss, Min P Kim



WHY OUR STUDY MATTERS







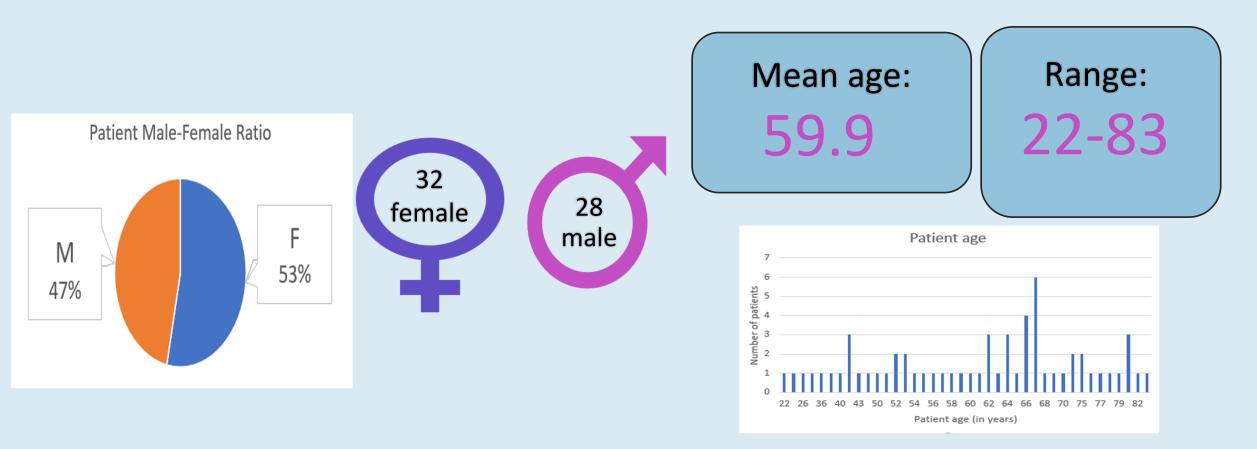




60 patients underwent cTIF.



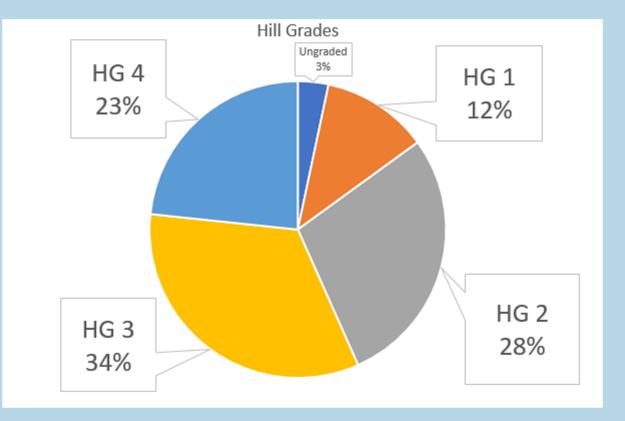
Retrospective analysis of a series of 60 consecutive patients who underwent robot-assisted cTIF from 4/2019 to 4/2021

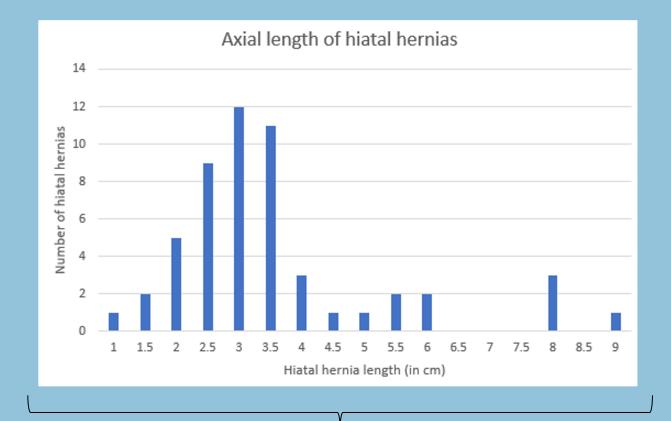






of patients had precTIF Hill Grades greater than II



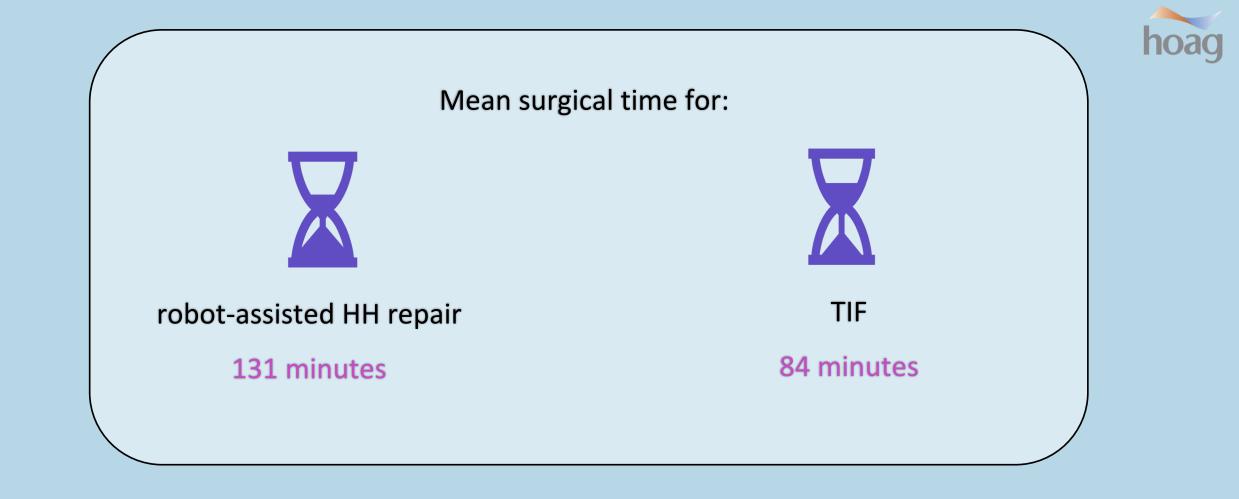


Intraoperatively, 11 patients had HHs with transverse diameters 25 cm

HH transverse diameter mean: 3.5 cm (range: 1.5-7)

HH axial length mean: <mark>3.6 cm (range 1-</mark> 9)



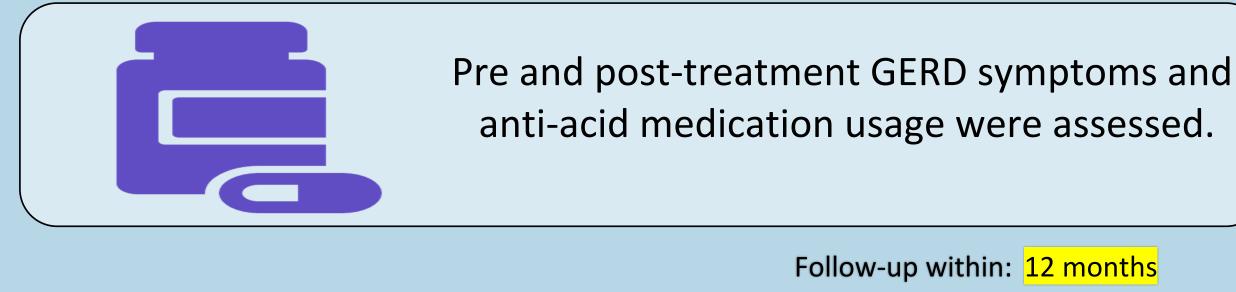


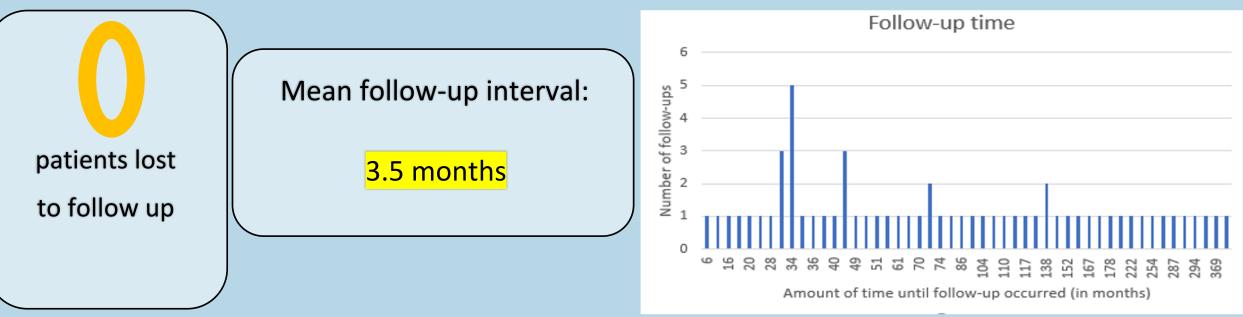
TIF Procedural success



Methods







Results





Patients on anti-acid meds before cTIF experienced symptom relief and decreased or discontinued using their meds

92%

Robot-assisted cTIF effectively reduces GERD symptoms, even in patients with larger HHs. RESULTS

Follow-up endoscopy on 18 patients revealed an intact TIF valve.

Zero patients required a preceding esophageal lengthening procedure Patients tolerated the procedure well with no reported complications.



CONCLUSION

Future studies should examine the long-term outcome of robotic-assisted cTIF vs laparoscopic cTIF.



THANK YOU!





QUESTIONS



